# P

Date: August 3, 2017

#### SAFETY DATA SHEET

# **SECTION 1 - IDENTIFICATION**

Product identifier used on the label: Paint Stripper and Graffiti Remover

Other means of Identification: ES73

Recommended use of the chemical and restrictions on use: For professional use only.

Manufacturer/Supplier:

Charlotte Products Ltd.

Address:

2060 Fisher Dr.

Peterborough, ON K9J 6X6

**Telephone:** 705-740-2880

Fax: 705-745-1239

24 Hr. Emergency Tel. #: Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

# **SECTION 2 - HAZARDS IDENTIFICATION**

#### Classification of the chemical:

Eye Damage/Irritation 2B

Label elements:

Signal Word: Warning

Hazard statement(s)

H320 Causes eye irritation

Precautionary statement(s)

P264 Wash exposed areas thoroughly after handling

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing

P337+313 If eye irritation persists get medical advice/attention

P501 Dispose of contents/container in accordance with local regulation

Hazard pictogram(s)

None

Other hazards not otherwise classified: None Known

**Unknown Acute Toxicity: 1.0%** 

#### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name, Common Name & Synonyms:	CAS#	Concentration %
Tripropylene glycol methyl ether	25498-49-1	30-60
Dimethyl Glutarate	1119-40-0	15-40
Dimethyl Succinate	106-65-0	5-10
Dimethyl Adipate	627-93-0	5-10
Polymer Solid	Proprietary	1-5
Alcohols, C12-16, ethoxylated	68551-12-2	0.5-1.5
Fragrance	5989-27-5/8002-09-3/103-09-3	0.5-1.5

<sup>\*\*</sup> If the chemical name/CAS # is "proprietary" and/or the weight % is shown as a range, this information had been withheld as a trade secret.

#### **SECTION 4 - FIRST-AID MEASURES**

#### Description of first aid measures:

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

If on skin (or hair): Take off all contaminated clothing. Wash with soap and water, rinse skin with water/shower. If skin irritation occurs get medical advice/attention. Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention

Most Important symptoms and effects, both acute and delayed: Causes eye irritation

Indication of any immediate medical attention and special treatment needed: Treat symptomatically

#### SECTION 5 - FIRE-FIGHTING MEASURES

#### Extinguishing media:

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Not determined

Special hazards arising from the substance or mixture: None known

Flammability classification: Not flammable

Hazardous combustion products: Carbon oxides, oxides of phosphorus other unidentified organic compounds.

Special protective equipment and precautions for firefighters:

**Protective equipment for fire-fighters:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

**Special fire-fighting procedures:** Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spilt/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Methods and material for containment and cleaning up:** Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

**Special spill response procedures:** In case of a transportation accident, contact Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International). If a spill/release in the US in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

#### **SECTION 7 - HANDLING AND STORAGE**

**Precautions for safe handling:** Handle in accordance with good industrial hygiene and safety practice. Use protective equipment recommended in section 8. Avoid contact with eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin after handling.

**Conditions for safe storage:** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep out of reach of children.

Incompatible materials: Oxidizing agents. Do not mix with other chemicals or cleaners

#### SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:					
		ACGII	ACGIH TLV		A PEL
Chemical Name	CAS#	TWA	STEL	PEL	STEL
Tripropylene glycol methyl ether	25498-49-1				
Dimethyl Glutarate	1119-40-0				
Dimethyl Succinate	106-65-0				
Dimethyl Adipate	627-93-0				
Polymer Solid	Proprietary				
Alcohols, C12-16, ethoxylated	68551-12-2				
Fragrance	5989-27-				

#### **Exposure controls:**

**Ventilation and engineering measures:** Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection:** Not required with normal use. If airborne concentrations are above the permissible exposure limit or irritation occurs, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

**Skin protection:** Not required with normal use. Where extensive exposure to product is possible, use protective gloves, resistant coveralls, apron and boots. The suitability for a specific workplace should be discussed with the producers of the protective regimes.

**Eye face protection:** Wear eye/face protection. Wear as appropriate tightly fitting safety goggles; Safety glasses with side-shields.

**Other protective equipment:** Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

**General hygiene considerations:** Do not breathe vapors or spray mist. Avoid contact with eyes. Do not eat, drink or smoke when using this product. Wash exposed areas after handling. Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Hazy colorless liquid

Odor: Oca

Odor threshold: No applicable information available

**pH:** 3.5-4.5

Melting/Freezing point: No applicable information available

Initial boiling point and boiling range: No applicable information available

Flash point: No applicable information available

Flashpoint (Method): No applicable information available

Evaporation rate (BuAe = 1): No applicable information available

Flammability (solid, gas): Not flammable

Lower flammable limit (% by vol.): Not Flammable

Upper flammable limit (% by vol.): Not Flammable

Vapor pressure: No applicable information available

Vapor density: No applicable information available

Relative density: 1.01-1.02

**Solubility in water:** No applicable information available

Other solubility(ies): No applicable information available

Partition coefficient: No applicable information available

Auto ignition temperature: No applicable information available

Decomposition temperature: No applicable information available

Viscosity: No applicable information available

Volatile organic Compounds (%VOC's): No applicable information available

Other physical/chemical comments: No applicable information available

#### **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity: Not normally reactive

Chemical stability: Stable

Possibility of hazardous reactions: No hazardous polymerization

**Conditions to avoid:** Keep out of reach of children. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials:** Halogens, strong oxidizing or reducing agents, bases, metals, sulfur trioxide, phosphorus pentoxide

Hazardous decomposition products: None known. Refer to 'Hazardous Combustion Products' in Section 5

#### SECTION 11 - TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

Routes of entry - inhalation: Avoid breathing vapors or mists

Routes of entry - skin & eye: Avoid contact with eyes

Routes of entry - Ingestion: Do not taste or swallow

#### **Potential Health Effects:**

Signs and symptoms of short term (acute) exposure:

Symptoms: Please see section 4 of this SDS sheet for symptoms.

#### **Potential Chronic Health Effects:**

**Mutagenicity:** Not expected to be mutagenic in humans.

Carcinogenicity: No applicable information available

Reproductive effects: No applicable information available

Sensitization to material: No applicable information available

**Specific target organ effects:** No data available to indicate product or components will have specific target organ effects.

Medical conditions aggravated by overexposure: Pre-existing skin or eye disorders.

#### Toxicological data:

See the following table for individual ingredient acute toxicity data.

Chemical name	CAS#	LD <sub>50</sub>	LD <sub>50</sub>	LC <sub>50</sub>
Chemical name	UAS#	(Oral, rat)	(Dermal. Rabbit)	(4hr, Inhal., rat)
Tripropylene glycol methyl ether	25498-49-1	3500 mg/kg	15,400 mg/kg	
Dimethyl Glutarate	1119-40-0	8191 mg/kg	>2250 mg/kg	
Dimethyl Succinate	106-65-0	6892 mg/kg	>5000 mg/kg	>2000 mg/L

Dimethyl Adipate	627-93-0	>5000 mg/kg	1000 mg/kg	
Polymer Solid	Proprietary			
Alcohols, C12-16, ethoxylated (>5-10 EO)	68551-12-2	>2000 mg/kg	>2000 mg/kg	
Fragrance	5989-27-5/8002- 09-3/103-09-3			

<sup>\*</sup>All empty cells no applicable information available

Other important toxicological hazards: None reported.

#### SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No applicable information available.

Persistence and degradability: No applicable information available

Bioaccumulation potential: No applicable information available.

Mobility in soil: No applicable information available.

Other Adverse Environmental effects: No applicable information available.

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Handling for disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures fisted in sections 7 and 8. Empty containers retain residue (liquid and/or vapor) and can be dangerous.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste UN defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

#### SECTION 14 - TRANSPORTATION INFORMATION

**Special Shipping Information:** Keep from freezing. **T.D.G. Classification:** Not regulated under T.D.G. **D.O.T. Classification:** Not regulated under D.O.T.

#### **SECTION 15 - REGULATORY INFORMATION**

Occupational Health and Safety Regulations:

WHMIS Class: D2B.

**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Product Act).

**Environmental Regulatory Lists:** 

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of these ingredients are listed.

CERCLA - Section 102 (Reportable Quantity) 40 CFR 302 - None of these ingredients are listed.

RCRA 40CFR 261 (SUBPART D) - None of these ingredients are listed.

CLEAN WATER ACT – Section 311 (Reportable Quantity) 40 CFR 116 - None of these ingredients are listed.

CLEAN AIR ACT - Section 312 (List of Hazardous Air Pollutants) 40 CFR 63 (Subpart C) - None of these ingredients are listed.

National Pollutant Release Inventory – None of the ingredients are listed.

Toxic Substances Control Act (TSCA) - All the ingredients are registered on the Chemical Substance Inventory.

Canadian Domestic Substance List (DSL) - All the ingredients are registered on the DSL.

#### **SECTION 16 - OTHER INFORMATION**

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

**CAS:** Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

**CFR:** Code of Federal Regulations **CSA:** Canadian Standards Association **DOT:** Department of Transportation

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer

IUCLID: International Uniform Chemical Information Database

LC: Lethal Concentration

LD: Lethal Dose

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OECD: Organization for Economic Co operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet Material Safety Data Sheet

STEL: Short Term Exposure Limit

TOG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values
TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

Prepared By: Charlotte Technical Services Group Tel: (705) 740 2880

#### **DISCLAIMER**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of this supplier, it is assumed that users of this material have been fully trained accordingly to the mandatory requirements of GHS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained within this form.

#### **END OF DOCUMENT**



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Version 1.2

SDS Number: 66000000530

Revision Date: 2016/02/02

# **SECTION 1. IDENTIFICATION**

Product name

: PALMOLIVE DISHWASHING HAND LIQUID ORIGNAL

**ADVANCED** 

Product code

Material

: 200000046050

: B02953870002

Manufacturer or supplier's details

Company

: Colgate-Palmolive Co

300 Park Avenue New York, NY 10022

Telephone

: US: Consumer Affairs - 1-800-468-6502

**Emergency telephone** 

number

For emergencies involving spill, leak, fire, exposure or acci-

dent call CHEMTREC (24hr) at (800) 424-9300 or

(703) 527-3887.

Global-CHEMTREC- +1 703-741-5970

**Medical Emergency** 

(24HR):

For MEDICAL EMERGENCIES involving this product call:

(888) 489-3861

Recommended use of the chemical and restrictions on use

Recommended use

: A formulated dishwashing liquid

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS Label element**

Not a hazardous substance or mixture.

#### Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
ETHANOL (ETHYL ALCOHOL)	64-17-5	>= 1 - < 5
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE	61792-31-2	>= 1 - < 5
SODIUM CHLORIDE	7647-14-5	>= 1 - < 5
METHANOL	67-56-1	>= 0.1 - < 1



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#### **SECTION 4. FIRST AID MEASURES**

General advice

: No hazards which require special first aid measures.

If inhaled

: Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion.

If symptoms persist, call a physician.

In case of skin contact

: Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact

: Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed

: Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: None known.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

: No special environmental precautions required.

Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece).

Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against

: Normal measures for preventive fire protection.

fire and explosion



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Advice on safe handling

: For personal protection see section 8.

No special handling advice required.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Materials to avoid

: No special restrictions on storage with other products.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHANOL (ETHYL ALCOHOL)	64-17-5	STEL	1,000 ppm	ACGIH
7,200,100		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
	-	TWA	1,000 ppm 1,900 mg/m3	OSHA P0
METHANOL	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0

# Hazardous components without workplace control parameters

Components	CAS-No.
LAURAMIDOPROPYLDIMET	61792-31-2
HYLAMINE OXIDE	
SODIUM CHLORIDE	7647-14 <b>-</b> 5

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra-tion	Basis
METHANOL	67-56-1	CUST- N15.001117 10	Urine	End of shift (As soon as possible	15 mg/l	ACGIH BEI



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after exposure ceases)

Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally re-

quired.

Hand protection

Remarks

: For prolonged or repeated contact use protective gloves.

Eye protection

: Safety glasses

Skin and body protection

: Protective suit

Hygiene measures

: General industrial hygiene practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

green

рΗ

: 7.2

Flash point

; > 200.00 °F

Density

: > 1.0000 g/cm3

# SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Stable under recommended storage conditions.

Chemical stability

: No decomposition if stored and applied as directed.

Possibility of hazardous reac-

: No hazards to be specially mentioned.

tions

Conditions to avoid

: No data available

# SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### **Product:**

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg



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Method: Calculation method

Acute dermal toxicity

: Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

ETHANOL (ETHYL ALCOHOL):

Acute oral toxicity

: LD50 (Rat): 10,470 mg/kg

Acute inhalation toxicity

: LC50 (Rabbit): 124.7 mg/l

Exposure time: 4 h

Test atmosphere: No information available.

Method: No information available.

Acute dermal toxicity

: LD50 (Rat): > 15,800 mg/kg

Method: No information available.

LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Acute oral toxicity

: LC50 (Rat): 500 - 1,000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: LC50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

SODIUM CHLORIDE:

Acute oral toxicity

: LD50 (Rat): 3,550 mg/kg

Acute inhalation toxicity

: LC50 (Rabbit): > 42,000 mg/l

Exposure time: 1 h

Test atmosphere: No information available.

Method: No information available.

Acute dermal toxicity

: LD50 (Rabbit): > 10,000 mg/kg

Method: No information available.

METHANOL:

Acute oral toxicity

: LD50 (Rat): 100 mg/kg

Method: Acute toxicity estimate

Acute inhalation toxicity

: Acute toxicity estimate (Rat): 3 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: Acute toxicity estimate

Acute dermal toxicity

: Acute toxicity estimate (Rat): 300 mg/kg

Method: Acute toxicity estimate

Skin corrosion/irritation

Not classified based on available information.



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#### **Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Components:

#### ETHANOL (ETHYL ALCOHOL):

Result: No skin irritation

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Mild skin irritation

#### SODIUM CHLORIDE:

Result: No skin irritation

#### METHANOL:

Result: No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### Components:

#### **ETHANOL (ETHYL ALCOHOL):**

Result: Irritation to eyes, reversing within 21 days

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Exposure time: 1 h

Method: OECD Test Guideline 405

#### SODIUM CHLORIDE:

Result: Mild eye irritation

#### **METHANOL:**

Result: No eye irritation

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Product:

Remarks: No data available



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#### Components:

#### ETHANOL (ETHYL ALCOHOL):

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal

Result: Does not cause skin sensitisation.

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

#### SODIUM CHLORIDE:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermail

Result: Does not cause skin sensitisation.

#### METHANOL:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal

Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

**IARC** 

Group 1: Carcinogenic to humans This finished consumer product is not expected to exhibit carcinogenic effects. Exposure through ingestion of Ethanol (64-17-5) is not applicable to the intended use of this product.

ETHANOL (ETHYL

64-17-5

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

ALCOHOL)

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.



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#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### Further information

#### Product:

Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

# SECTION 12. ECOLOGICAL INFORMATION

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues

: Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Contaminated packaging

: Empty remaining contents.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT

Not regulated.

TDG

: Not regulated.



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**IATA** 

Not regulated.

**IMDG** 

Not regulated.

ADR

NOT REGULATED.

#### International Regulation

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
METHANOL	67-56-1	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric Acid	7664-93-9	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

: No SARA Hazards

**SARA 302** 

: No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

**SARA 313** 

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):



This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

64-17-5

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ETHANOL (ETHYL

ALCOHOL)

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

SODIUM BISULFITE

7631-90-5

SODIUM HYDROXIDE

1310-73-2

Sulfuric Acid

SULFURIC ACID

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM BISULFITE

7631-90-5

SODIUM HYDROXIDE

1310-73-2

Sulfuric Acid

SULFURIC ACID

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **US State Regulations**

#### Massachusetts Right To Know

ETHANOL (ETHYL ALCOHOL)	64-17 <b>-</b> 5	1 - 5 %
Sulfuric Acid	SULFURIC	0 - 0.1 %
	ACID	

#### Pennsylvania Right To Know

WATER	70 - 90 %
Not Assigned	5 - 10 %
64-17-5	1 - 5 %
67-56-1	0.1 - 1 %
7783-20-2	0 - 0.1 %
	Not Assigned 64-17-5 67-56-1

#### New Jersey Right To Know

Water	WATER	70 - 90 %
C12-C15 0.6EO Ammonium Sulfate	Not Assigned	5 - 10 %
ETHANOL (ETHYL ALCOHOL)	64-17-5	1 - 5 %
LAURAMIDOPROPYLDIMETHYLAMINE	61792-31-2	1 - 5 %
OXIDE		
SODIUM CHLORIDE	7647-14 <b>-</b> 5	1 - 5 %
METHANOL	67-56-1	0.1 - 1 %

# The components of this product are reported in the following inventories:

**TSCA** 

: All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

# **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx -



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Version 1.2

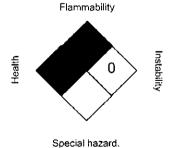
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Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

#### **Further information**

#### NFPA:



#### HMIS III:

HEALTH	0
	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Revision Date

: 2016/02/02



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN



This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0 Revision Date: 05/16/2018

 Date of last issue: -

Date of first issue: 05/16/2018

#### **SECTION 1. IDENTIFICATION**

Product name : PALMOLIVE ESSENTIAL CLEAN DISHWASHING HAND

LIQUID ORIGINAL B02929040043

Product code : 200000056093

Manufacturer or supplier's details

Company name of supplier : Colgate-Palmolive Co

300 Park Avenue New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

Emergency telephone num-

ber

For emergencies involving spill, leak, fire, exposure or acci-

dent call CHEMTREC (24hr) at (800) 424-9300 or

(703) 527-3887.

Global-CHEMTREC- +1 703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : dishwashing liquid

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Eye irritation : Category 2A

**GHS** label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.



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Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
AMMONIUM LAURYL SULFATE	2235-54-3	>= 5 - < 10
AMMONIUM LAURETH SULFATE	32612-48-9	>= 1 - < 5
SODIUM CHLORIDE	7647-14-5	>= 1 - < 5
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE	61792-31-2	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.



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Most important symptoms and effects, both acute and

delayed

Causes serious eye irritation.

#### **SECTION 5. FIREFIGHTING MEASURES**

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod- :

ucts

No hazardous combustion products are known

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Environmental precautions Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Do not breathe vapours/dust. Advice on safe handling

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-



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plication area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : blue green

pH : 7.1



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: > 200 °F / > 93 °C Flash point

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability No decomposition if stored and applied as directed.

tions

Possibility of hazardous reac- : No decomposition if stored and applied as directed.

Conditions to avoid No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

#### Components:

#### **AMMONIUM LAURYL SULFATE:**

: Remarks: No data available Acute oral toxicity

Remarks: No data available Acute inhalation toxicity

Remarks: No data available Acute dermal toxicity

# **AMMONIUM LAURETH SULFATE:**

Acute oral toxicity LD50 (Rat): 630 mg/kg

Method: No information available.

: Remarks: No data available Acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

#### **SODIUM CHLORIDE:**



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Acute oral toxicity : LD50 (Rat): 3,550 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): > 42 mg/l

Exposure time: 1 h

Test atmosphere: No information available.

Method: No information available.

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

Method: No information available.

LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Acute oral toxicity : LC50 (Rat): 500 - 1,000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LC50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

**Components:** 

**AMMONIUM LAURYL SULFATE:** 

Result : Severe skin irritation

**AMMONIUM LAURETH SULFATE:** 

Result : Severe skin irritation

SODIUM CHLORIDE:

Result : No skin irritation

LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Mild skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

**AMMONIUM LAURYL SULFATE:** 

Result : irritating



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#### **AMMONIUM LAURETH SULFATE:**

Result : Irritation to eyes, reversing within 21 days

SODIUM CHLORIDE:

Result : Mild eye irritation

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Exposure time : 1 h

Method : OECD Test Guideline 405

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### **Components:**

#### **AMMONIUM LAURYL SULFATE:**

Exposure routes : Inhalation

Remarks : No data available

Exposure routes : Dermal

Remarks : No data available

#### **AMMONIUM LAURETH SULFATE:**

Exposure routes : Inhalation

Remarks : No data available

Exposure routes : Dermal

Result : Does not cause skin sensitisation.

#### SODIUM CHLORIDE:

Exposure routes : Inhalation

Remarks : No data available

Exposure routes : Dermal

Result : Does not cause skin sensitisation.

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Exposure routes : Inhalation

Remarks : No data available



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Exposure routes Dermal Species Guinea pig

Method **OECD Test Guideline 406** 

Result Does not cause skin sensitisation.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

No component of this product present at levels greater than or equal to 0.1% is IARC

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is NTP

identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks This product has not been tested as a whole. However, this

> formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the

statements in Section 3 of the SDS.

#### **SECTION 12. ECOLOGICAL INFORMATION**

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental Occupational Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of in-



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gredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT :

Not regulated.

TDG

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

ADR

Not regulated.

#### **SECTION 15. REGULATORY INFORMATION**

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SODIUM HYDROXIDE	1310-73-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SULFURIC ACID	7664-93-9	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.



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SARA 311/312 Hazards : Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

SODIUM HYDROXIDE 1310-73-2 SULFURIC ACID 7664-93-9

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM HYDROXIDE 1310-73-2 SULFURIC ACID 7664-93-9

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **US State Regulations**

#### Massachusetts Right To Know

TRISODIUM NITRILOTRIACETATE	5064-31-3
SULFURIC ACID	7664-93-9

#### Pennsylvania Right To Know

WATER	7732-18-5
AMMONIUM LAURYL SULFATE	2235-54-3
AMMONIUM SULFATE	7783-20-2
SODIUM SULFATE	7757-82-6

#### The components of this product are reported in the following inventories:

TSCA : All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative



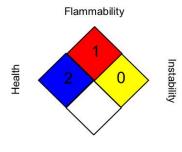
This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version Revision Date: SDS Number: Date of last issue: -

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#### **Further information**

#### NFPA:



Special hazard.

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Revision Date US / EN

: 05/16/2018



This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0 SDS Number: 660000002381 Revision Date: 2016/03/08

#### **SECTION 1. IDENTIFICATION**

Product name : PALMOLIVE ULTRA DISHWASHING HAND LIQUID

**ORIGINAL** 

Product code : 200000050103 Material : B02908590139

Manufacturer or supplier's details

Company : Colgate-Palmolive Co

300 Park Avenue New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

**Emergency telephone** 

number

For emergencies involving spill, leak, fire, exposure or acci-

dent call CHEMTREC (24hr) at (800) 424-9300 or

(703) 527-3887.

Global-CHEMTREC- +1 703-741-5970

**Medical Emergency** 

(24HR):

For MEDICAL EMERGENCIES involving this product call:

(888) 489-3861

Recommended use of the chemical and restrictions on use

Recommended use : A formulated dishwashing liquid

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS Label element**

Not a hazardous substance or mixture.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Hazardous components**

Chemical Name	CAS-No.	Concentration (% w/w)
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE	61792-31-2	>= 1 - < 5
MYRISTAMIDOPROPYLAMINE OXIDE	67806-10-4	>= 1 - < 5
ETHANOL (ETHYL ALCOHOL)	64-17-5	>= 0.1 - < 1



This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Revision Date: 2016/03/08 Version 1.0 SDS Number: 66000002381

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air in case of accidental inhalation of dust or

> fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: None known.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Further information : Standard procedure for chemical fires.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.



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Advice on safe handling : For personal protection see section 8.

No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Materials to avoid : No special restrictions on storage with other products.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
ETHANOL (ETHYL ALCOHOL)	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

#### Hazardous components without workplace control parameters

Components	CAS-No.
LAURAMIDOPROPYLDIMET	61792-31-2
HYLAMINE OXIDE	
MYRISTAMIDOPROPYLAMIN	67806-10-4
E OXIDE	

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid



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Colour : blue green

pH : 6.6 - 7.4

Flash point : > 200 °F

Density : >= 1.00 g/cm3

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

: No hazards to be specially mentioned.

Conditions to avoid : No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

#### Components:

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Acute oral toxicity : LC50 (Rat): 500 - 1,000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LC50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

**MYRISTAMIDOPROPYLAMINE OXIDE:** 

Acute oral toxicity : LC50 (Rat): 500 - 1,000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LC50 (Rat): > 2,000 mg/kg



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Method: OECD Test Guideline 402

ETHANOL (ETHYL ALCOHOL):

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 124.7 mg/l

Exposure time: 4 h

Test atmosphere: No information available.

Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 15,800 mg/kg

Method: No information available.

#### Skin corrosion/irritation

Not classified based on available information.

#### **Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Components:

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Mild skin irritation

#### MYRISTAMIDOPROPYLAMINE OXIDE:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Mild skin irritation

#### **ETHANOL (ETHYL ALCOHOL):**

Result: No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### Components:

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Exposure time: 1 h

Method: OECD Test Guideline 405



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#### MYRISTAMIDOPROPYLAMINE OXIDE:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Exposure time: 1 h

Method: OECD Test Guideline 405

#### ETHANOL (ETHYL ALCOHOL):

Result: Irritation to eyes, reversing within 21 days

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Remarks: No data available

#### Components:

#### LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

#### MYRISTAMIDOPROPYLAMINE OXIDE:

Exposure routes: Inhalation

Result: Does not cause respiratory sensitisation.

Test Type: Maximisation Test (GPMT)

**Exposure routes: Dermal** Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

#### **ETHANOL (ETHYL ALCOHOL):**

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal

Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

**IARC** 

Group 1: Carcinogenic to humans This finished consumer product is not expected to exhibit carcinogenic effects. Exposure through ingestion of Ethanol (64-17-5) is not applicable to the



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intended use of this product.

ETHANOL (ETHYL 64-17-5

ALCOHOL)

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### **Product:**

Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

#### **SECTION 12. ECOLOGICAL INFORMATION**

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : Offer surplus and non-recyclable solutions to a licensed disposal company.



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Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT :

Not regulated.

TDG

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

ADR

Not regulated.

#### International Regulation

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
METHANOL	67-56-1	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
*		(lbs)	(lbs)
SULFURIC ACID	7664-93-9	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.



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#### **SARA 313**

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

SODIUM HYDROXIDE 1310-73-2 SULFURIC ACID 7664-93-9

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM HYDROXIDE 1310-73-2 SULFURIC ACID 7664-93-9

SULFURIC ACID

**METHANOL** 

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## **US State Regulations**

#### Massachusetts Right To Know

Pennsylvania Right To Know		
WATER	7732-18-5	70 - 90 %
C12-C15 0.6EO Ammonium Sulfate	Not Assigned	10 - 20 %
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE	61792-31-2	1 - 5 %
AMMONIUM SULFATE	7783-20-2	0 - 0.1 %

#### **New Jersey Right To Know**

WATER	7732-18-5	70 - 90 %
C12-C15 0.6EO Ammonium Sulfate	Not Assigned	10 - 20 %
LAURAMIDOPROPYLDIMETHYLAMINE	61792-31-2	1 - 5 %
OXIDE		
Isodecyl alcohol ethoxylate	61827-42-7	1 - 5 %
MYRISTAMIDOPROPYLAMINE OXIDE	67806-10-4	1 - 5 %
ETHANOL (ETHYL ALCOHOL)	64-17-5	0.1 - 1 %

#### The components of this product are reported in the following inventories:

TSCA : All ingredients in this product are listed on the TSCA Inventory

or are not required to be listed on the TSCA Inventory.

7664-93-9

67-56-1

0 - 0.1 %

0 - 0.1 %



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#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

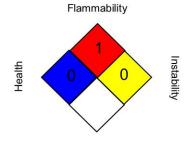


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#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

: 2016/03/08 **Revision Date** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN



#### Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

**Product Name:** 

PB Penetrating Catalyst (Bulk)

**Product Code:** 

128-PB, 5-PB & 55-PB

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use:

Lubricant

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address:

The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA

Telephone Number:

T (216) 901-5800 F (216) 901-5801

1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** 

CHEMTREC: (800) 424-9300

Date of Preparation:

May 26, 2014

Version #: 1.0

#### Section 2: HAZARD(S) IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

Hazard class

Flammable Liquid 4
Serious Eye Irritation 2A
Carcinogenicity 2
Aspiration Hazard 1

#### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

#### Hazard Pictogram:





Signal Word:

Danger

Hazard Statement:

Combustible liquid. Causes serious eye irritation. Suspected of causing cancer. May be fatal if swallowed and enters airways.

Prevention:

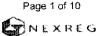
Keep away from flames and hot surfaces. – No smoking. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye

protection/face protection.

Response:

If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If swallowed: Immediately

Trade Name: PB Penetrating Catalyst (Bulk)





call a poison center/doctor. Do NOT induce vomiting.

Storage:

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents and container in accordance with all local,

regional, national and international regulations.

#### 2.3 ADDITIONAL INFORMATION

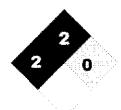
Hazards not otherwise classified:

Not applicable.

1% of the mixture consists of ingredient(s) of unknown acute toxicity.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

#### Mexico Classification:



Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

Ingredient	UN#	H / F/ R / *	CAS No	Wt. %
Distillates (petroleum), hydrotreated light	Not available	Not available	64742-47-8	45 - 55
Solvent naphtha (petroleum), heavy aromatic	UN1270	Not available	64742-94-5	20 - 30
Distillates (petroleum), hydrotreated heavy naphthenic	Not available	Not available	64742-52-5	20 - 30
,	UN1334/			
Naphthalene	UN2304	2/2/0	91-20-3	0.2 - 2.1
Dinonylphenol, ethoxylated, phosphated	Not available	Not available	39464-64-7	0.5 - 1.5

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

#### Section 4: FIRST- AID MEASURES

#### 4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If

irritation persists, get medical attention.

Skin:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

Trade Name: PB Penetrating Catalyst (Bulk)



<sup>\*</sup> Per NOM-018-STPS-2000



Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an unconscious

person. Get immediate medical advice/attention.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: Causes serious eye irritation. Symptoms may include discomfort or

pain, excess blinking and tear production, with marked redness and

swelling of the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, drying,

defatting and cracking of the skin.

Inhalation: May be fatal if swallowed and enters airways. This product may be

aspirated into the lungs and cause chemical pneumonitis. May

cause stomach distress, nausea or vomiting.

**Ingestion:** May cause respiratory tract irritation.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians:

Symptoms may not appear immediately.

Specific Treatments:

In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

#### Section 5: FIRE-FIGHTING MEASURES

#### 5,1 EXTINGUISHING MEDIA

Suitable Extinguishing Media:

Dry chemical, carbon dioxide or foam.

Unsuitable Extinguishing Media:

Water may be ineffective for extinguishing fire.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

**Products of Combustion:** 

May include, and are not limited to: oxides of carbon, hydrocarbons.

#### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. Do not use a solid water stream as it may scatter and spread fire. Containers may explode when heated.

#### Section 6: ACCIDENTAL RELEASE MEASURES

## 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

#### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite),

then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Vapors may be

heavier than air and may travel along the ground to a distant ignition

source and flash back. Provide ventilation.





#### Section 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Handling:

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/ spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-

ventilated area. (See section 8)

General Hygiene Advice:

Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage:

Keep locked up and out of reach of children. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in dry, cool, well-ventilated area. (See section 10)

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **8.1 CONTROL PARAMETERS**

#### **Exposure Guidelines**

Occupational Exposure Limits			
Ingredient	OSHA-PEL	ACGIH-TLV	
Distillates (petroleum), hydrotreated light	100 ppm	200 mg/m <sup>3</sup>	
Solvent naphtha (petroleum), heavy aromatic	Not available.	Not available.	
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m³ (mist)	5 mg/m³ (mist)	
	10 ppm;	- <del>-</del>	
Naphthalene	50 mg/m <sup>3</sup>	10 ppm	
Dinonylphenol, ethoxylated, phosphated	Not available.	Not available.	

#### **8,2 EXPOSURE CONTROLS**

**Engineering Controls:** 

Use ventilation adequate to keep exposures (airborne levels of dust,

fume, vapor, etc.) below recommended exposure limits.

#### 8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side-shields.

**Skin Protection:** 

Hand Protection: Wear chemically resistant protective gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: A NIOSH approved respirator is recommended in poorly ventilated areas

or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator.



General Health and Safety Measures:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Viscous / Oily.

Color:

Orange.

Odor:

Heavy aromatic.

Odor Threshold:

Not available.

**Physical State:** 

Liquid.

pH:

Not available.

Melting Point/Freezing Point:

Not available.

Initial Boiling Point and Boiling Range:

177.8 °C (352 °F)

Flash Point:

65.6 °C (150 °F)

Evaporation Rate:

>1 (n-butyl acetate = 1)

Flammability:

Flammable.

Lower Flammability/Explosive Limit:

Not available.

Upper Flammability/Explosive Limit:

Not available.

Vapor Pressure: Vapor Density:

>1 (Air = 1)

Relative Density/Specific Gravity:

0.91 (Water = 1)

Solubility:

Viscosity:

Negligible.

Partition coefficient: n-octanol/water:

Not available.

Auto-ignition Temperature:

Not available.

Decomposition Temperature:

Not available.

Oxidizing Properties:

Not available.

Explosive Properties:

Not available.

VOC content:

< 50%

#### Section 10: STABILITY AND REACTIVITY

#### **10.1 REACTIVITY**

No dangerous reaction known under conditions of normal use.

#### **10.2 CHEMICAL STABILITY**

Stable under normal storage conditions.

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#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

#### 10.4 CONDITIONS TO AVOID

Heat. Incompatible materials. Sources of ignition. Excessive water.

#### 10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents. Strong reducing agents. Moisture.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, hydrocarbons.

#### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure:

Skin contact, eye contact, inhalation, and ingestion.

## Symptoms related to physical/chemical/toxicological characteristics:

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain,

excess blinking and tear production, with marked redness and swelling of

the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, drying,

defatting and cracking of the skin.

Ingestion: May be fatal if swallowed and enters airways. This product may be

aspirated into the lungs and cause chemical pneumonitis. May cause

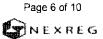
stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

#### **Acute Toxicity:**

Ingredient	IDLH	LC50	LD50
Distillates (petroleum),		Inhalation	Oral >5000 mg/kg, rat;
hydrotreated light	Not available.	>5.2 mg/L 4h, rat	Dermal >2000 mg/kg, rabbit
Solvent naphtha			
(petroleum), heavy		Inhalation	Oral >5000 mg/kg, rat;
aromatic	Not available.	>5.28 mg/L 4h, rat	Dermal >2000 mg/kg, rabbit
Distillates (petroleum),			
hydrotreated heavy		Inhalation	Oral >5000 mg/kg, rat;
naphthenic	Not available.	>5.0 mg/L 4h, rat	Dermal >5000 mg/kg, rabbit
•			Oral 490 mg/kg, rat;
			Dermal >2500 mg/kg, rat;
Naphthalene	250 ppm	Not available.	Dermal >20 g/kg, rabbit
Dinonylphenol,			
ethoxylated, phosphated	Not available.	Not available.	Not available.

Calculated overall Chemical Acute Toxicity Values				
LC50 (inhalation) LD50 (oral) LD50 (dermal)				
Not available. > 2000 mg/kg, rat > 2000 mg/kg, rabbit				





Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*	
Distillates (petroleum), hydrotreated light	Not listed.	
Solvent naphtha (petroleum), heavy aromatic	Not listed.	
Distillates (petroleum), hydrotreated heavy naphthenic	Not listed.	
Naphthalene	G-A4, I-2B, N-2, CP65	
Dinonylphenol, ethoxylated, phosphated	Not listed.	

<sup>\*</sup> See Section 15 for more information.

## 11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation:

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation:

Causes serious eye irritation.

**Respiratory Sensitization:** 

Based on available data, the classification criteria are not met.

Skin Sensitization:

Based on available data, the classification criteria are not met.

STOT-Single Exposure:

Based on available data, the classification criteria are not met.

**Chronic Health Effects:** 

Carcinogenicity: Possible carcinogen.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity:

Developmental: Based on available data, the classification criteria are not met.

Fertility: Based on available data, the classification criteria are not met.

STOT-Repeated Exposure:

Based on available data, the classification criteria are not met.

**Aspiration Hazard:** 

May be fatal if swallowed and enters airways.

Other Information:

Not available.

#### Section 12: ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY

Acute/Chronic Toxicity:

May cause long-term adverse effects in the aquatic environment.

## 12.2 PERSISTENCE AND DEGRADABILITY

Not available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation:

Not available.

12.4 MOBILITY IN SOIL

Not available.

#### 12.5 OTHER ADVERSE EFFECTS

Not available.

NEXREG



#### Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method: This material must be disposed of in accordance with all

local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized

wherever possible.

Other disposal recommendations:

Handle empty containers with care because residual

vapours are flammable.

#### **Section 14: TRANSPORT INFORMATION**

14.1 UN NUMBER

DOT NOM-004-SCT2-1994

NA 1993 Not regulated.

14.2 UN PROPER SHIPPING NAME

DOT NOM-004-SCT2-1994

Combustible liquid, n.o.s. (Petroleum distillate)

Not applicable.

14.3 TRANSPORT HAZARD CLASS (ES)

3

DOT NOM-004-SCT2-1994

Not applicable.

14.4 PACKING GROUP

DOT NOM-004-SCT2-1994

III Not applicable.

14.5 ENVIRONMENTAL HAZARDS

Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

#### Section 15: REGULATORY INFORMATION

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**US:** SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: SDS prepared pursuant to NOM-018-STPS-2000.



SARA Title III					
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	
Distillates (petroleum), hydrotreated light	Not listed.	Not listed.	Not listed.	Not listed.	
Solvent naphtha (petroleum), heavy aromatic	Not listed.	Not listed.	Not listed.	Not listed.	
Distillates (petroleum), hydrotreated heavy naphthenic	Not listed.	Not listed.	Not listed.	Not listed.	
Naphthalene	Not listed.	Not listed.	100	313	
Dinonylphenol, ethoxylated, phosphated	Not listed.	Not listed.	Not listed.	Not listed.	

#### State Regulations

#### California Proposition 65:

This product contains a chemical known to the State of California to cause cancer.

#### Global Inventories:

Ingredient	USA TSCA	
Distillates (petroleum), hydrotreated light	Yes.	
Solvent naphtha (petroleum), heavy aromatic	Yes.	
Distillates (petroleum), hydrotreated heavy naphthenic	Yes.	
Naphthalene	Yes.	
Dinonylphenol, ethoxylated, phosphated	Yes.	

NFPA-National Fire Protection Association:				
Health:	2			
Fire:	2			
Reactivity:	0			

HMIS-Hazardous Materials Identification System:				
Health: 2*				
Fire: 2				
Physical Hazard: 0				

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

#### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

#### IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.





2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

- 3 The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N)

#### National Toxicology Program.

- 1 Known to be carcinogens.
- 2 Reasonably anticipated to be carcinogens.

#### Section 16: OTHER INFORMATION

Date of Preparation:

May 26, 2014

Version:

1.0

**Revision Date:** 

May 26, 2014

**Disclaimer:** We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Prepared by:

Nexreg Compliance Inc.

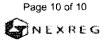
Phone: (519) 488-5126

www.nexreg.com

Prepared for:

The Blaster Corporation

**End of Safety Data Sheet** 







#### 1. IDENTIFICATION

Product Name: PDI Sani-Cloth Bleach Germicidal Disposable Wipe SDS 0094-00

Date of Preparation: August 12, 2016

#### Recommended use of the chemical and restrictions on use:

**Recommended use:** Use as a disinfectant on hard, non-porous surfaces. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use

this product in a manner inconsistent to label directions. **Restrictions on use:** For Professional and Hospital Use.

Manufacturer/Supplier: Nice-Pak/PDI, Inc.

Two Nice-Pak Park

Orangeburg, NY 10962-1376

**Phone Number:** 1-845-365-1700

Emergency Phone Number: PERS: 1-800-633-8253 (Domestic/Canada)

1-801-629-0667 (International)

#### 2. HAZARD(S) IDENTIFICATION

This product is a clear white liquid with a chlorine odor impregnated on a wipe. There is a small amount of liquid on the wipes and no free liquid in the packages.

#### **GHS Classification:**

Physical	Health	Environmental
Not Classified	Not Classified	Not Classified

#### **Label Elements:**

None Required

#### **Hazard Statements:**

**Not Required** 

#### **Precautionary Statements:**

**Not Required** 

Other Hazards: None known.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Non-Hazardous Components	Mixture	90-<100%
Sodium Hypochlorite	7681-52-9	0.63%

#### 4. FIRST-AID MEASURES

#### **Description of First Aid Measures:**

Eye: Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Skin:** No first aid should be required. Wash skin with water. Get medical attention if irritation develops or persists.

**Inhalation:** Not a normal route of exposure. If symptoms develop move victim to fresh air. Get medical attention if symptoms develop.

**Ingestion:** Ingestion is unlikely for solid products. No first aid is required for small amounts transferred from hands to mouth.

Most Important Symptoms/Effects, Acute and Delayed: Direct contact with liquid may cause slight eye irritation.

**Indication of Immediate Medical Attention and Special Treatment, If Necessary:** None required under normal conditions of use.

#### 5. FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire.

**Specific Hazards Arising From the Chemical:** Product will burn under fire conditions. Combustion may produce oxides of carbon and phosphorus, and chlorine gas.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Contain runoff.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Avoid prolonged contact with eyes. Wear appropriate protective clothing as described in Section 8.

**Environmental Hazards:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning Up:** Do not reuse towelette. Pick up wipe and place in an appropriate container for disposal. If used, place in a container for infectious waste disposal. Do not flush in toilet.

#### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes. Wear protective clothing and equipment as described in Section 8. Wash hands thoroughly with soap and water after use. Keep containers closed when not in use. Refer product label for additional information on use and handling.

**Dispenser or Container Disposal:** Nonrefillable container. Do not resue or refill this container. Dispose in accordance with all local, state and federal regulations.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry location away from incompatible materials. Do not contaminate water, food or feed by storage or disposal. For containers: When not in use keep center cap of lid closed to prevent moisture loss.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines:**

Non-Hazardous Components	None Established
Sodium Hypochlorite	2 mg/m3 STEL AIHA WEEL

**Appropriate Engineering Controls:** General ventilation is adequate under normal conditions of use. Refer product label for additional information.

#### **Individual Protection Measures, Such As Personal Protective Equipment:**

**Respiratory Protection:** None required for normal use. In case of insufficient ventilation, wear suitable respiratory equipment. Refer product label for additional information.

Skin Protection: Use disposable protective gloves to prevent prolonged skin contact.

**Eye Protection:** None required under normal use conditions.

Other: None required under normal conditions of use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear white liquid saturated on a wipe	Flammable limits: LEL: Not applicable
	UEL: Not applicable
Odor: Chlorine odor	Vapor pressure: Not available
Odor Threshold: Not applicable	Vapor density: Not available
pH: 12.5 (Saturant)	Relative density: 1.018 (Saturant)
Melting point/freezing point: 0°C (32°F) (Saturant)	Solubility(ies): Saturant- infinite
Boiling point/range: 100°C (212°F) (Saturant)	Partition coefficient (n-octanol/water): Not available
Flash point: Not available	Auto-ignition temperature: Not available
Evaporation rate: Not available	Decomposition temperature: Not available
Flammability (solid, gas): Not applicable	

#### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur. Product may react in contact with acids or strong oxidizing agents. Mixing product with acids or ammonia will create hazardous vapors. **Conditions To Avoid:** Keep away from heat and open flames.

**Incompatible Materials:** Avoid contact with strong oxidizing agents, acids, caustics, and ammonia. **Hazardous Decomposition Products:** Thermal decomposition may produce oxides of carbon and phosphorus, and chlorine gas.

#### 11. TOXICOLOGICAL INFORMATION

#### **Potential Health Effects:**

**Eye:** This product is expected to cause minimal irritation to eyes based on test data from the OPPTS 870.2400 Acute Eye Irritation Study which resulted in Toxicity Category III. The test data obtained does not meet the criteria of the GHS for eye irritancy.

Skin: No adverse effects are expected.

**Inhalation:** Inhalation of high concentrations of vapors may cause upper respiratory tract irritation. **Ingestion:** Ingestion is unlikely for solid products. This product contains only a small amount of liquid. No adverse effects are expected.

Chronic Effects: None known.

**Carcinogenicity:** None of the components of this product are listed as a carcinogen or suspected carcinogen by OSHA, IARC, and NTP.

Reproductive Effects: Reproductive harm is not expected from this product.

Mutagenic Effects: Not expected to cause mutagenic activity.

#### **Acute Toxicity:**

No toxicity data available for the mixture. The following toxicity data is for the individual components: Non-Hazardous Components: No toxicity data available Sodium Hypochlorite: Oral rat LD50: 1100 mg/kg, Inhalation rat LC50: >10.5 mg/L/1hr, Dermal rabbit LD50:

>20 g/kg

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available for this mixture. The following data is for the individual components: Sodium Hypochlorite: 96 hr LC50 Coho Salmon: 0.032 mg/L, 48 hr EC50 Daphnia magna: 141 ug/L (M-Factor Acute: 10)

This product is expected to be toxic to the aquatic environment. Releases to the environment should be avoided.

Persistence and Degradability: No data available Bioaccumulative Potential: No data available

Mobility in Soil: No data available
Other Adverse Effects: None known.

#### 13. DISPOSAL CONSIDERATIONS

Towelette Disposal: Do not reuse towelette. Dispose of used towelette in trash. Do not flush in toilet.

**Dispenser or Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling. If recycling is not available, put in trash collection.

Empty containers or liners may retain some product residues. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. This material and its container must be disposed of in a safe manner. Dispose in accordance with all local, state and federal regulations.

#### 14. TRANSPORT INFORMATION

	UN	Proper shipping name	Hazard	Packing	Environmental
	Number		Class	Group	Hazard
US DOT	None	Not Regulated	None	None	Not applicable
IMDG	None	Not Regulated	None	None	Not applicable
IATA	None	Not Regulated	None	None	Not applicable

Special precautions: None known

#### 15. REGULATORY INFORMATION

#### Safety, Health, and Environmental Regulations Specific for the Product In Question:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

#### FIFRA Labeling:

# Keep Out Of Reach of Children CAUTION PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Physical or chemical hazard:** This product contains bleach. Do not use this product with other chemicals such as ammonia, toilet bowl cleaners, rust removers, or acid, as this releases hazardous gases.

**CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

#### SARA TITLE III:

Hazard Category for Section 311/312: Not Hazardous

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section

313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

**EPA Toxic Substances Control Act (TSCA) Status:** This product is a EPA Registered product #9480-8. However, all of the ingredients of this product are listed on the TSCA inventory.

#### 16. OTHER INFORMATION

**HMIS Ratings:** Health -0 Flammability -0 Physical Hazard -0 **NFPA Ratings:** Health -0 Flammability -0 Instability -0

SDS Revision History: New SDS

Date of preparation: August 12, 2016

Date of last revision: - December 12, 2017

## Percent Copper in Brass— Advanced Inquiry Laboratory Kit Flinn Scientific

#### Primary Learning Objective 1.16

The relative proportions of copper, zinc, and iron in brass influence its properties and uses. How can the percent composition of brass be determined to verify these properties? The purpose of this advanced inquiry lab is to design a procedure to analyze the amount of copper in brass using visible spectroscopy. The lab begins with an introductory activity, in which students measure the absorbance of various metal ion solutions at regular wavelength intervals from 400 nm to 700 nm and investigate the influence of the anion on the absorption spectra. Students identify the correlation among wavelength, absorbance, and concentration for each of three possible ions that may be obtained from brass: copper, zinc, and iron. Once the introductory activity is completed, students design and carry out an experiment to construct a calibration curve and determine the concentration of copper ions in a solution prepared by dissolving brass in nitric acid. Students must investigate the concentration range over which Beer's law is valid and identify the optimum wavelength for analysis. The mass percent of copper in brass is determined from the results of the analysis. This experiment should be performed in a fume hood or well-ventilated lab. Flinn Catalog Number: AP7643 Materials Included in Kit (for 24 students working in pairs)

Brass sample, 75 g
Iron(III) nitrate solution, Fe(NO3) 3, 0.1 M, 75 mL
Copper(II) nitrate solution, Cu(NO3) 2, 0.1 M, 75 mL
Nitric acid, concentrated, HNO3, 15.8 M, 75 mL
Copper(II) nitrate stock solution, Cu(NO3) 2, 0.40 M, 200 mL
Zinc nitrate solution, Zn(NO3) 2, 0.1 M, 75 mL
Copper(II) sulfate solution, CuSO4, 0.1 M, 75 mL
Zinc sulfate solution, ZnSO4, 0.1 M, 75 mL
Iron(III) chloride solution, FeCI3, 0.1 M, 75 mL

\*\*NOTE - LOOK UP CHEMICAL SDS's INDIVIDUALL IN LOCATION INVENTORY\*\*

## pH Electrode Storage Solution



## Section 1

## **Product Description**

Product Name: pH Electrode Storage Solution Recommended Use: Science education applications

Synonyms: None

**Distributor:** Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

## WARNING



Harmful in contact with skin. Causes eye irritation.

#### GHS Classification:

Serious Eye Damage/Eye Irritation Category 2B, Skin Corrosion/Irritation Category 3, Acute Toxicity - Dermal Category 4

## **Section 3**

## Composition / Information on Ingredients

Chemical Name Water	<u>CAS #</u> 7732-18-5	<u>%</u> 91
Potassium Chloride	7447-40-7	8
Potassium Biphthalate	877-24-7	1

## Section 4

## First Aid Measures

#### **Emergency and First Aid Procedures**

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 5

## Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NiOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Potassium Oxide

## Section 6

## Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS.

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled. the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

## Handling and Storage

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep Handling:

> container tightly closed in a cool, well-ventilated place. Keep container dry. Keep away from ... (incompatible materials to be indicated by the manufacturer). After contact with skin, wash immediately with plenty of water.

Keep container tightly closed in a cool, well-ventilated place. Storage:

Storage Code: Green - general chemical storage

## Section 8

## Protection Information

	ACC	SIH.	<u>OSH</u>	A PEL
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
Potassium Chloride	N/A	N/A	N/A	N/A
Potassium Biphthalate	N/A	N/A	N/A	N/A

**Control Parameters** 

Eye Protection:

No exposure limits exist for the constituents of this product. General room ventilation Engineering Measures:

might be required to maintain operator comfort under normal conditions of use.

Lab coat, apron, eye wash, safety shower. Personal Protective Equipment (PPE):

No respiratory protection required under normal conditions of use. Respiratory Protection:

None required where adequate ventilation is provided. If airborne concentrations are Respirator Type(s):

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Natural latex., Natural rubber, Neoprene, Nitrile, Polyvinyl chloride Gloves:

## Section 9

## Physical Data

Formula: See Section 3

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Molecular Weight: No Data Available

Vapor Density (Air=1): N/A Appearance: Colorless Liquid

Specific Gravity: N/A Odor: None Solubility in Water: Soluble Odor Threshold: No data available

Log Pow (calculated): No data available pH: No data available Melting Point: No data available Autoignition Temperature: No data available

Boiling Point: 100 C **Decomposition Temperature:** No data available Flash Point: Not available Viscosity: No data available Flammable Limits in Air: N/A Percent Volatile by Volume: N/A

## Section 10

## Reactivity

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:

Water-reactive materials, Bromine Trifluoride, Strong oxidizing agents Incompatible Materials:

Potassium Oxide, Carbon dioxide, Carbon monoxide Hazardous Decomposition Products:

Will not occur Hazardous Polymerization:

Toxicity Data Section 11

Ingestion, skin and eye contact., Ingestion. Routes of Entry

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Dermal LD50 Inhalation LC50 Oral LD50 **Chemical Name** CAS Number

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Oral LD50 Rat Potassium Chloride 7447-40-7 2600 ma/ka

Oral LD50 Mouse

1500 mg/kg

Dermal LD50 Oral LD50 Rat > Potassium Biphthalate 877-24-7 3200 mg/kg

Guinea pig > 1000

mg/kg

Carcinogenicity:

**OSHA** IARC NTP **CAS Number** Chemical Name Not listed 7447-40-7 Not listed Not listed Potassium Chloride Not listed Not listed 877-24-7 Not listed Potassium Biphthalate

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

No evidence of a teratogenic effect (birth defect). Teratogenicity:

Sensitization: No evidence of a sensitization effect.

No evidence of negative reproductive effects. Reproductive:

Target Organ Effects:

Acute: See Section 2

Not listed as a carcinogen by IARC, NTP or OSHA. Chronic:

## Section 12

## Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Dissolved into water, Biodegradation Persistence:

No data Bioaccumulation: Degradability: No data Other Adverse Effects: No data

**CAS Number Eco Toxicity** Chemical Name 7732-18-5 No data available Water

Aquatic LC50 (96h) Bluegill Sunfish 1060 MG/L 7447-40-7 Potassium Chloride

Aquatic EC50 (48h) Daphnia 825 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS 2500 MG/L

877-24-7 Potassium Biphthalate

## Section 13

## Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always Disposal Methods:

contact a permitted waste disposer (TSD) to assure compliance.

₩aste Disposal Code(s): Not Determined

## Section 14.

## Transport Information

Air - IATA Proper Shipping Name: Ground - DOT Proper Shipping Name: Not regulated for air transport by IATA. N/A

All components in this product are on the TSCA Inventory. TSCA Status:

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Chloride	7447-40-7	No	No	No	No	No
Potassium Biphthalate	877-24-7	No	No	No	No	No

## Section 16

## **Additional Information**

Revised: 09/03/2014 Replaces: 08/27/2014 Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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u	IUSSAIV	

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

## Vernier Software & Technology Safety Data Sheet (SDS)

Issue date 05/11/2016

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 05/11/2016

#### 1 Identification

- · Product Identifier: pH Storage Solution
- · Trade name: Potassium Chloride and Phthalate Buffer Solution
- · Product Number: PH-SS
- · Relevant identified uses of the substance or mixture and uses advised against: Lab/Field use only
- · Product Description pH/ORP Storage or Soaking Solution
- · Application of the substance / the mixture: Conditioning Solution
- · Details of the Supplier of the Safety Data Sheet:
- · Manufacturer/Supplier:

ASI

12800 Park One Drive

Sugar Land TX, 77478

www.asi-sensors.com

· Emergency telephone number: Bill Boyne 281-565-8818 x 133

#### 2 Hazard(s) Identification

#### · Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

- · Label elements:
- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 0

Reactivity = 0

· Hazard(s) not otherwise classified (HNOC): None known

## 3 Composition/Information on Ingredients

· Non-hazardous components:		
7447-40-7 Potassium Chloride	15-35%	
7732-18-5 Water, distilled water, deionized water	≥85%	
877-24-7 potassium hydrogen phthalate	≤ 2.5%	

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

(Contd. on page 2)

Issue date 05/11/2016

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03. Reviewed on 05/11/2016

Trade name: Potassium Chloride and Phthalate Buffer Solution

· Dangerous Compone	ents:	
CAS: 89-83-8	Thymol	≤ 2.5%
RTECS: XP 2275000	Skin Corr. 1B, H314; 🔖 Aquatic Chronic 2, H411; 🕠 Acute Tox. 4, H302	
CAS: 111-30-8	Glutaraldehyde	≤ 2.5%
RTECS: MA 2450000	Acute Tox. 3, H301; Acute Tox. 3, H331; & Resp. Sens. 1, H334; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Skin Sens. 1, H317; Flam. Liq. 4, H227	

#### 4 First-Aid Measures

- Description of first aid measures:
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Generally the product does not irritate the skin.

Rinse with warm water.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

If eve irritation occurs, consult a doctor,

- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## 5 Fire-Fighting Measures

- · Extinguishing media:
- Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions: Do not allow to enter sewers/surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and Storage

- · Handling
- · Precautions for safe handling: No special measures required.

(Contd. on page 3)

Issue date 05/11/2016

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 05/11/2016

Trade name: Potassium Chloride and Phthalate Buffer Solution

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- Storage
- · Requirements to be met by storerooms and receptacles: Store in the original container.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

#### 8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands: Not required.
- · Material of gloves: Not required.
- · Penetration time of glove material: Not applicable.
- · Eye protection:



Goggles recommended during refilling.

#### 9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Liquid

Color: Clear, colorless
Odor: Odorless
Odor threshold: Not determined.

· pH-value @ 20 °C (68 °F): 3.8

· Change in condition

Melting point/Melting range: Not determined.
Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: None

· Flammability (solid, gaseous): Not applicable.

(Contd. on page 4)

Issue date 05/11/2016

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 05/11/2016

Trade name: Potassium Chloride and Phthalate Buffer Solution

· Ignition temperature:

**Decomposition temperature:** Not determined.

· Auto igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

 Lower:
 0.0 Vol %

 Upper:
 0.0 Vol %

· Vapor pressure @ 20 °C (68 °F): 23 hPa (17 mm Hg)

• **Density @ 20 °C (68 °F):** 1.148 g/cm³ (9.58 lbs/gal)

Relative density: Not determined.
 Vapor density: Not determined.
 Evaporation rate: Not determined.

· Solubility in / Miscibility with:

Water: Fully miscible.

• Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

 Organic solvents:
 0.0 %

 Water:
 >85 %

 Solids content:
 15-35 %

· Other information: No further relevant information available.

## 10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: Strong acids and strong oxidizing agents.
- · Hazardous decomposition products:

Aldehydes, Carbon Oxides, NItrogen Oxides (NOx), Potassium Oxides and Hydrochloric acid gas.

#### 11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

#### 7447-40-7 Potassium Chloride

Oral LD50 2600 mg/kg (rat)

- · Primary irritant effect:
- · On the skin: No irritating effect.
- · On the eve: No irritating effect.

(Contd. on page 5)

Issue date 05/11/2016

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03. Reviewed on 05/11/2016

Trade name: Potassium Chloride and Phthalate Buffer Solution

#### · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### · Carcinogenic categories:

#### · IARC (International Agency for Research on Cancer):

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

None of the ingredients are listed.

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### 2 Ecological Information

- · *Toxicity:* The hazards for the aquatic environment are unknown.
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

## 3 Disposal Considerations

- · Waste treatment methods:
- · Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

Smaller quantities can be disposed of with household waste.

- · Uncleaned packagings
- Recommendation:

Dispose of as unused product.

Disposal must be made according to official regulations.

· UN-Number:

· DOT, ADN, IMDG, IATA

Non-Regulated Material Non-Regulated Material

Not Regulated

· UN proper shipping name:

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

(Contd. on page 6)

Issue date 05/11/2016

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 05/11/2016

Trade name: Potassium Chloride and Phthalate Buffer Solution

· Transport hazard class(es):

· DOT, ADR, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.Special precautions for user: Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· UN "Model Regulation": Non-Regulated Material

#### 15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

111-30-8 Glutaraldehyde

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

Issue date 05/11/2016

Safety Data Sheet (SDS)
OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 05/11/2016

Trade name: Potassium Chloride and Phthalate Buffer Solution

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Date of preparation / last revision: 05/11/2016 / 2
- Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Lig. 4: Flammable liquids - Category 4

Acute Tox. 3: Acute toxicity - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

\* Data compared to the previous version altered.

## FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 589.00

Revision Date: March 21, 2014

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Phenol Red

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

#### **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

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SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Phenol red, sodium salt	34487-61-1	$C_{19}H_{13}NaO_5S$	376.36	
	!	ii.		
Synonym: Phenolsulfonephthalein indicator				

## SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water (P302+P352). If skin irritation occurs: Get medical advice or attention (P332+P313).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

When heated to decomposition, may emit toxic fumes.

None

In case of fire: Use a tri-class dry chemical fire extinguisher.

established

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

# FLINN SCIENTIFIC, INC.

**Safety Data Sheet** 

Phenol Red

SDS #: 589.00

Revision Date: March 21, 2014

# **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains.

Keep container tightly closed (P233). Store in a cool, dry place. Use only in a hood or well-ventilated area (P271).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Will stain skin, clothing, and surfaces.

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Bright to dark red crystal or powder. Odorless.

pH indicator: 6.8 yellow to 8.4 red.

Soluble: Water

#### **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers. Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant Chronic effects: N.A. Target organs: N.A.

ORL-RAT LD50: N.A. IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

# SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

# SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (252-057-8).

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 21, 2014

Phenol Red, 0.04%



# Section 1

# **Product Description**

**Product Name:** 

Phenol Red, 0.04%

Recommended Use:

Science education applications

Synonyms:

Phenol Red Solution, Phenolsulfonphthalein, PSP

Distributor:

Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information:

800-227-1150 (8am-5pm (ET) M-F)

Chemtrec:

800-424-9300 (Transportation Spill Response 24 hours)

### Section 2

# **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# WARNING



Causes skin irritation. Causes serious eye irritation.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains
Acute Toxicity Inhalation Dust/Mist

100 % of the mixture consists of ingredient(s) of unknown toxicity

**Contains** 

# Section 3 Composition / Information on Ingredients

Chemical Name	<u>CAS #</u> _	<b>%</b>
Water	7732-18-5	99.5
Sodium Hydroxide	1310-73-2	0.46
Phenol Red. Sodium Salt	34487-61-1	0.04

#### Section 4

#### First Aid Measures

#### **Emergency and First Aid Procedures**

Inhalation:

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Ta

ke off contaminated clothing and wash before reuse.

Ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 5

# Firefighting Procedures

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards:

Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide

#### Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled. the quantity of the spill, the area in which the spill occurred. Also consider the expertise of

employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

# Section 7

# Handling and Storage

Handling:

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Storage:

Keep container tightly closed in a cool, well-ventilated place.

Storage Code:

Green - general chemical storage

# Section 8

## Protection Information

**ACGIH OSHA PEL** 

Chemical Name Sodium Hydroxide Phenol Red, Sodium Salt

(TWA) N/A N/A

(STEL) N/A N/A

(TWA) 2 ma/m3 TWA N/A

(STEL) N/A N/A

Control Parameters

**Engineering Measures:** 

Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Wear chemical splash goggles when handling this product. Have an eye wash station

Eye Protection: Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through

and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work

Gloves:

No information available

#### Section 9

#### Physical Data

Formula: C19H14O5S

Molecular Weight: 376.36 (Phenol Red Sodium)

Appearance: Red Liquid

Odor: None

Odor Threshold: No data available

pH: >7

Melting Point: Estimated 0 C Boiling Point: Estimated 100 C Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: > 1

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

## Section 10

# Reactivity Data

Reactivity:

Not generally reactive under normal conditions.

Chemical Stability: Conditions to Avoid: Stable under normal conditions. Elevated temperatures

Incompatible Materials:

Water-reactive materials

Hazardous Polymerization:

Will not occur

# Section 11

# Toxicity Data

Routes of Entry

Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): **Delayed Effects:** 

No data available No data available

Phenol Red, 0.04%

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Not applicable

Water 7732-18-5

Sodium Hydroxide 1310-73-2 DERMAL LD50
Rabbit 1350 mg/kg

Phenol Red, Sodium Salt 34487-61-1

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHASodium Hydroxide1310-73-2Not listedNot listedNot listedPhenol Red, Sodium Salt34487-61-1Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

**Reproductive**: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No data available, Respiratory system

Chronic: No data available

# **Section 12**

# **Ecological Data**

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water, Biodegradation
Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Sodium Hydroxide 1310-73-2 Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L

### Section 13

# **Disposal Information**

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

#### Section 14

# **Transport Information**

**Ground - DOT Proper Shipping Name:**Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

#### Section 15

# Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Hydroxide	1310-73-2	No	No	No	No	No
Phenol Red, Sodium Salt	34487-61-1	No	No	No	No	No

## Section 16

# Additional Information

Revised: 06/20/2013 Replaces: 03/20/2013 Printed: 06-21-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACG1H <sup>°</sup>	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Phenol Red, 0.04% Page 4 of 4

Section 1

Chemical Product and Company Information





5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product PHENOL RED, 1% IN IPA/WATER

Synonyms Phenol Red, pH Indicator

Section 2 Hazards Identification

Signal word: DANGER Pictograms: GHS02 / GHS07

Target organs: Central nervous system, Liver, Kidneys.





GHS Classification: Flammable liquid (Category 2) Eye irritation (Category 2) STOT-SE (Category 3)

GHS Label information: Hazard statement(s):

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243. Take precautionary measures against static discharge.

P261: Avoid breathing mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353; IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P337+P313: If eye irritation persists: Get medical attention.

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.

P403+P235; Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Name	CAS #	%	EINECS	
sopropyl alcohol	67-63-0	49.5%	200-661-7	
Vater	7732-18-5	49.5%	231-791-2	
henol red, sodium salt	34487-61-1	1.0%	252-057-8	
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**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire Fighting Measures \*\*\*

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

# Section 8 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection Chemical Name **Exposure Limits:** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Isopropanol TWA: 200 ppm / STEL: 400 ppm TWA: 400 ppm / 980 mg/m<sup>3</sup> 400 ppm / STEL: 500 ppm

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

# Section 9 Physical & Chemical Properties

Appearance: Clear, red-orange liquid. Odor: Aromatic odor.

Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: Approximately -21.6°C (-7°F)

Boiling point: 80°C (176°F) Flash point: 23.9°C (75.5°F) TCC Evaporation rate ( Butyl acetate = 1): >1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: 2% / 12% [Pure IPA]

Vapor pressure (mm Hg): 33 mm @20°C [Pure IPA] Vapor density (Air = 1): 2.1 [Pure IPA]

Relative density (Specific gravity): 0.8 Solubility(ies): Complete in water. Partition coefficient: (n-octanol / water): Data not available Auto-ignition temperature: 399°C (750°F) ASTM-E659-78 [Pure IPA] Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formu la: Mixture Molecular weight: Mixture

# Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizing materials, caustics, aluminums, metals, nitroform, oleum, chlorinated compounds can react vigorously with this alcohol.

Hazardous decomposition products: Oxides of carbon.

# Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 4396 mg/kg; Inhalation-rat LC50: 72.6 mg/L/4 hours; Dermal-rat LD50: 12,000 mg/kg [Isopropanol]

Skin corrosion/irritation: Skin-rabbit - Slight irritant. Serious eye damage/irritation: Eyes-rabbit - Irritating. Respiratory or skin sensitization: Not sensitizing Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation of high vapor concentrations may cause central nervous system depression resulting in dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Continued inhalation may result in unconsciousness and death.

Ingestion: Aspiration hazard. Liquid can directly enter the lungs (aspirated) when swallowed or vomited. Serious lung damage and possible fatal chemical pneumonia can

Skin: Prolonged or repeated contact may cause irritation and drying, cracking and defatting of the skin which can lead to dermatitis.

Eyes: Contact causes burning sensation, redness, swelling, and/or blurred vision.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: NT8050000 [Isopropanol]

# Section 12 Ecological Information

Toxicity to fish: Pimephales promelas (Fish, fresh water) LC50: 9640 mg/L/96 hours [Isopropanol]

Toxicity to daphnia and other aquatic invertebrates: Artemia salina (Crustacea), EC50 = >10,000 mg/L/24 hours [Isopropanol]

Toxicity to algae: Scenedesmus quadricauda (Algae), LOEC50 = 1,800 mg/L/7 days [Isopropanol] Persistence and degradability: No data available

Bioaccumulative potential: No data available Mobility in soil: No data available

PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

# Section 13 Disposal Considerations :

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

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# Section 14 Transport Information

UN/NA number: UN1987 Shipping name: Alcohols, n.o.s., (Isopropanol)

Hazard class: 3 Packing group: III Reportable Quantity: No

Exceptions: Limited quantity equal to or less than 5 L ERG Guide # 129

# Regulatory information

A chemical is considered to be listed if the CAS number for t	he anhydrous form	is on the Inventory list.		WHITE III . S. S. HANDER CO. P. C. A.		
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Isopropyl alcohol	Listed	Not listed	Not listed	Listed	Not listed	
				: 		: <b>(a)</b> (7) B2; D2B

# Section 16 Additional information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,

> Revision Date: January 27, 2014 Supercedes: September 27, 2013

Marine pollutant: No

#### GENERAL STORAGE CODE GREEN

Section 1

Chemical Product and Company Identification

Page E1 of E2



221 Rochester Street Avon NY 14414 (585) 226-6177

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use

Product

**PHENOLPHTHALEIN** 

Synonyms

3,3-Bis(para-hydroxyphenyl)phthalide

Section 2

**Hazards Identification** 

Signal word: DANGER Pictograms: GHS08 Target organs: None known



GHS Classification:

Mutagenicity (Category 2) Carcinogenicity (Category 1B) Reproductive toxicity (Category 2)

GHS Label information: Hazard statement:

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H361f: Suspected of damaging fertility.

#### Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical attention.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65: This chemical is known to the State of California to cause cancer or reproductive toxicity

Chemical Name	CAS#	%	EINECS
Phenolphthalein	77-09-8	100%	201-004-7

#### First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 **Fire Fighting Measures**

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam. Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

#### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 **Handling & Storage** 

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale duets. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light.

Section 8	Exposure Controls / Personal Pro	otection		
Evansuus Limites	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Phenolphthalein	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

#### **Physical & Chemical Properties** Section 9

Appearance: Solid. White to off-white powder

Odor: No odor

Odor threshold: Data not available

pH: Data not available

Melting / Freezing point: 261°C (501°F) Boiling point: Data not available

Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available

Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.299 Solubility(ies): Slightly soluble in water

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: C<sub>20</sub>H<sub>14</sub>O<sub>4</sub> Molecular weight: 318.33

#### Stability & Reactivity Section 10

Chemical stability: Stable Hazardous polymerization: Will not occur

Conditions to avoid: Excessive temperatures. Protect from light.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Oxides of carbon.

#### Section 11 **Toxicological Information**

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eve damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: (R) Reasonably anticipated to be a human carcinogen. IARC classified: Group 2B: Possibly carcinogenic to humans.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: Contact causes irritation.

Signs and symptoms of exposure: See Potential health effects above. Risk of cancer depends on level and duration of exposure.

Additional information: RTECS #: Data not available

#### Section 12 **Ecological Information**

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Bioaccumulative potential: No data available Persistence and degradability: No data available PBT and vPvB assessment: No data available Mobility in soil: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### **Disposal Considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

#### Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: Not applicable Shipping name: Not Regulated

Reportable Quantity: No Marine pollutant: No Hazard class: Not applicable Packing group: Not applicable

2016 ERG Guide # Not applicable Exceptions: Not applicable

#### Section 15 Regulatory Information A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list RCRA code DSI NDSI Component **TSCA** CERLCA (RQ) Not listed Phenolphthalein Not listed Not listed Listed Listed

#### Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook

Supercedes: December 9, 2016 Revision Date: April 27, 2017 Form 06/2015

Section 1

Chemical Product and Company Information



CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product PHENOLPHTHALEIN

Synonyms 3,3-Bis(para-hydroxyphenyl)phthalide

Section 2 Hazards identification

Signal word: DANGER Pictograms: GHS08 Target organs: None known



GHS Classification: Mutagenicity (Category 2) Carcinogenicity (Category 1B) Reproductive toxicity (Category 2)

GHS Label information: Hazard statement: H341: Suspected of causing genetic defects. H350: May cause cancer. H361f: Suspected of damaging fertility.

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical attention.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Chemical Name	CAS#	%	EINECS
Phenolphthalein	77-09-8	100%	201-004-7
		i	
Section 4 First Air Meas		ACT TO THE RESERVE OF	

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

# Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam. Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

# Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water,

#### Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light.

Section 8	Alternative Control of the Control o	rotection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Phenolphthalein	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

#### Section 9 Physical & Chemical Properties

Appearance: Solid. White to off-white powder

Odor: No odor Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: 261°C (501°F) Boiling point: Data not available

Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available

Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available

Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1 299 Solubility(ies): Slightly soluble in water.

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: C<sub>20</sub>H<sub>14</sub>O<sub>4</sub> Molecular weight: 318.33

#### Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Concitions to avoid: Excessive temperatures. Protect from light.

Incompatible materials: Strong oxidizers

Hazardous decomposition products: Oxides of carbon.

#### Section 11 🗼 🧸 Toxicological Information 🔞

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: (R) Reasonably anticipated to be a human carcinogen. IARC classified: Group 2B: Possibly carcinogenic to humans.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritaition.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eves: Contact causes irritation.

Signs and symptoms of exposure: See Potential health effects above. Risk of cancer depends on level and duration of exposure.

Additional information: RTECS #: Data not available

#### Section 12 Ecological Information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

# Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. 

#### Section 14 Transport Information

UN/NA number: Not applicable Shipping name: Not Regulated Packing group: Not applicable Hazard class: Not applicable Exceptions: Not applicable 2012 ERG Guide # Not applicable

Reportable Quantity: No

Marine pollutant: No

#### Section 15 Regulatory information

Action line and additioned to be listed it the GAS fluttibel for the	<del></del>	is on the inventory list.				
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Phenolphthalein	Listed	Not listed	Not listed	Listed	Not listed	Not listed

#### Additional information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

> Revision Date: September 5, 2014 Supercedes: February 6, 2013

**SDS No.: PP0140** 

Section 1 Chemical Product and Company Information



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660 **CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

Product

PHENOLPHTHALEIN

Synonyms

3,3-Bis(para-hydroxyphenyl)phthalide

# Section 2 Hazards Identification

Signal word: DANGER Pictograms: GHS08 Target organs: None known



GHS Classification:

Mutagenicity (Category 2) Carcinogenicity (Category 1B) Reproductive toxicity (Category 2)

GHS Label information: Hazard statement:

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H361f: Suspected of damaging fertility,

#### Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical attention.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

nemical Name	CAS#	%	EINECS	
henolphthalein	77-09-8	100%	201-004-7	
		Annual Valence		
	:			
	**************************************			
401 A				

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap

# Bright fighther Manager and Street Street Street

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam. Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

# Stelland St. Accidental Coleric Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

# i Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry. well-ventilated area away from incompatible substances. Protect from light.

Section 8 Exposure Controls / Personal Protection Chemical Name **Exposure Limits:** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Phenolphthalein None established None established None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

# Section 9 Physical & Chemical Properties

Appearance: Solid, White to off-white powder Odor: No odor.

Odor threshold: Data not available.

pH: Data not available Melting / Freezing point: 261°C (501°F) Boiling point: Data not available Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.299

Solubility(ies): Slightly soluble in water.

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula:  $C_{20}H_{14}O_4$ Molecular weight: 318.33

# Section (0 Section) & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures. Protect from light.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Oxídes of carbon.

# Section (1 .... Toxicological information -

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: (R) Reasonably anticipated to be a human carcinogen. IARC classified: Group 2B: Possibly carcinogenic to humans.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritaltion.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: Contact causes irritation.

Signs and symptoms of exposure: See Potential health effects above. Risk of cancer depends on level and duration of exposure.

Additional information: RTECS #: Data not available

#### Sensitive server edition of the continue of the server server

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Land Land Carte in the Charte that the court is

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. 

UN/NA number: Not applicable Hazard class: Not applicable

Shipping name: Not Regulated Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable 2012 ERG Guide # Not applicable ACTUAL PROPERTY OF STREET STREET, STREET STREET, STREE

A chemical is considered to be listed if the CAS number for the a	anhydrous form	is on the Inventory list.
Component	TSCA	CERLCA (RQ)

and the service are serviced from the inventory list,						
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Phenolphtha <del>le</del> in	Listed	Not listed	Not fisted	Listed	Not listed	Not listed
					:	I

# Sarmer (Section 2)

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure

> Revision Date: February 6, 2013 Supercedes: January 4, 2012



# Fisher Scientific

# Part of Thermo Fisher Scientific

# SAFETY DATA SHEET

Creation Date 20-Jul-2009

Revision Date 14-Mar-2014

Revision Number 1

#### 1. Identification

**Product Name** 

Phenolphthalein Solution, Alcoholic, 1.0%

Cat No.:

SP62-1; SP62-500

**Synonyms** 

Phenolphthalein Indicator Solution

Recommended Use

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Category 2

Serious Eye Damage/Eye Irritation

Category 2

Germ Cell Mutagenicity

Category 2

Carcinogenicity Reproductive Toxicity Category 2

Specific target organ toxicity (single exposure)

Category 2

Category 3

Target Organs - Respiratory system, Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure)

Category 2

Target Organs - Kidney, Liver.

Label Elements

#### Signal Word

Danger

#### **Hazard Statements**

Highly flammable liquid and vapor

Causes serious eye irritation

Suspected of causing genetic defects

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

May cause respiratory irritation

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure



#### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### Response

IF exposed or concerned: Get medical attention/advice

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

May form explosive peroxides

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Isopropyl alcohol	67-63-0	99
Phenolphthalein	77-09-8	1

# 4. First-ald measures

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion

Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

Notes to Physician

5. Fire-fighting measures

Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. alcohol-resistant foam. Water spray. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable Extinguishing Media

Water may be ineffective, Do not use a solid water stream as it may scatter and spread fire

Flash Point

12 °C / 53.6 °F

Method -

No information available

**Autoignition Temperature** 

Explosion Limits

398.9 °C

Upper Lower

12.7 vol % 2.0 vol %

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.

# **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO2) peroxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health

2

Flammability

Instability

Physical hazards

N/A

Personal Precautions

Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Avoid release to the environment. See Section 12 for additional ecological Information.

**Environmental Precautions** 

Up

Methods for Containment and Clean Remove all sources of ignition. Take precautionary measures against static discharges. Soak up with inert absorbent material. Use spark-proof tools and explosion-proof equipment. Keep in suitable, closed containers for disposal.

7. Handling and storage

6. Accidental release measures

Handling

Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only non-sparking tools. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammables area.

8. Exposure controls / personal protection

**Exposure Guidelines** 

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 980 mg/m³ (Vacated) STEL: 500 ppm (Vacated) STEL: 1225 mg/m³ TWA: 400 ppm TWA: 980 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Isopropyl alcohol 67-63-0 ( 99 )	TWA: 400 ppm TWA: 985 mg/m³ STEL: 500 ppm STEL: 1230 mg/m³	TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³	TWA: 200 ppm STEL: 400 ppm

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal Protective Equipment

**Eye/face Protection** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Physical State

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Liauid **Appearance** Colorless Odor Alcohol-like **Odor Threshold** No information available рΗ No information available Melting Point/Range -89 °C / 128.2 °F **Boiling Point/Range** 83 °C / 181.4 °F Flash Point 12 °C / 53.6 °F **Evaporation Rate** 2.88 (Butyl Acetate = 1.0)

Flammability (solid,gas)

Flammability or explosive limits Upper 12.7 vol % Lower 2.0 vol % Vapor Pressure 40 mmHg Vapor Density 2.1 **Relative Density** 0.7855 Solubility Soluble in water

Partition coefficient; n-octanol/water No data available Autoignition Temperature 398.9 °C

Decomposition temperature Viscosity

No information available No information available

No information available

# 10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid

Incompatible products. Heat, flames and sparks. Extremes of temperature and direct

sunlight.

Incompatible Materials

Strong oxidizing agents, Strong acids, Alkali metals, Aluminium

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), peroxides

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological information

#### **Acute Toxicity**

**Product Information** Component Information

No acute toxicity information is available for this product

0			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5840 mg/kg (Rat)	13900 mg/kg ( Rat )	72.6 mg/L (Rat) 4 h
		12870 mg/kg / Rabbit \	• , ,

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Irritating to eyes and respiratory system

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	LADO	T	_ <del></del>		
		IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	Not listed	Not listed	Not listed	Not listed	
Phenolphthalein	77-09-8	Group 2B	Reasonably	Not listed	V	Not listed
		'	Anticipated	Not listed	^	Not listed
Mutagonio Effects		N1			<u>L </u>	1 1

/lutagenic Effects

No information available

Reproductive Effects

Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** 

Developmental effects have occurred in experimental animals.

Teratogenicity

Teratogenic effects have occurred in experimental animals.

STOT - single exposure STOT - repeated exposure Respiratory system Central nervous system (CNS) Kidney Liver

Aspiration hazard

No information available

Symptoms / effects, both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting

**Endocrine Disruptor Information** 

No information available

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor
Phenolphthalein	Group III Chemical	Not applicable	Not applicable
Other Adverse Effects	The toxicological properties ha	ave not been fully investigated.	See actual entry in RTECS for

complete information.

# 12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
· · · · · · · · · · · · · · · · · · ·			MICIOLOX	( water riea

Isopropyl alcohol	1000 mg/L EC50 > 96 h 1000 mg/L EC50 > 72 h	1400000 μg/L LC50 96 h 9640 mg/L LC50 96 h 11130 mg/L LC50 96 h	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h
Persistence and Degrad	lability No information	<u></u>		<u>                                       </u>

ersistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available.

#### Mobility

Component	log Pow
Isopropyl alcohol	0.05
Phenolphthalein	2.41

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No

UN1219

**Proper Shipping Name** 

**ISOPROPANOL** 

**Hazard Class** 

**Packing Group** 

Ш

TDG

UN-No

UN1219

**Proper Shipping Name** 

**ISOPROPANOL** 

**Hazard Class** Packing Group 3 П

IATA

UN-No

UN1219

**Proper Shipping Name** 

**ISOPROPANOL** 

Hazard Class

**Packing Group** 

IJ

IMDG/IMO

**UN-No** 

UN1219

**Proper Shipping Name** 

**ISOPROPANOL** 

**Hazard Class** 

3 Packing Group Ш

# 15. Regulatory information

## International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KEOL
Isopropyl alcohol	Х	X		200-661-7			000		AICO	IEUSU	KECL
Phenolphthalein	X	X		201-004-7	<u> </u>		<del> </del>	<del>-                                    </del>	<del>- \( \)</del>	_ <u>X</u>	X
Legend:			L	23.00.7					X	X	X

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

**TSCA 12(b)** 

Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold
Isopropyl alcohol	67-63-0	99	Values %
Phenolphthalein	77-09-8	1	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes **Chronic Health Hazard** Yes Fire Hazard Yes Sudden Release of Pressure Hazard No Reactive Hazard No

Clean Water Act

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

**CERCLA** 

Not applicable

**California Proposition 65** 

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category	
Phenolphthalein	77-09-8	Carcinogen		<del></del>	
State Pight to Know		- 3		Carcinogen	

State	Right-t	o-Know
-------	---------	--------

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isopropyl alcohol	X	X	Y	11111013	Knode Island
Phenolphthalein	-	X	<del>+ - ^</del>	<del></del>	<del>                                     </del>
U.S. Department of Tran	sportation	L	<u> </u>	<u> </u>	<u>-</u>

#### J.S. Department of Transportation

Reportable Quantity (RQ): Ν DOT Marine Pollutant Ν

DOT Severe Marine Pollutant

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade

No information available

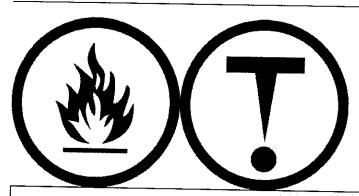
Ν

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B2 Flammable liquid D2A Very toxic materials D2B Toxic materials



# 16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date Print Date

20-Jul-2009

14-Mar-2014 14-Mar-2014

Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS** 

# Phenolphthalein, 1% in 70% 2-Propanol



# **Section 1**

# **Product Description**

Product Name: Phenolphthalein, 1% in 70% 2-Propanol

Recommended Use: Science education applications

Synonyms: Phenolphthalein indicator, alcoholic solution
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

# Section 2

# **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **DANGER**







Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.

#### **GHS Classification:**

Carcinogenicity Category 1B, Flammable Liquid Category 2, Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 3, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

### Section 3

# Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 2-Propanol
 67-63-0
 69.3

 Water
 7732-18-5
 29.7

 Phenolphthalein
 77-09-8
 1

### Section 4

#### First Aid Measures

#### **Emergency and First Aid Procedures**

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: 1F ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

# Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may

explode. Risk of explosion if heated under confinement. May cause fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

# Section 6

# **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including, the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in

the area.

# Section 7

# **Handling and Storage**

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../

equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as

required.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-

ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

# Section 8

# Protection Information

	ACC	OSHA PEL		
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Phenolphthalein	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s):

Eye Protection:

NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work. Nitrile

Gloves: Nit

### Section 9

# **Physical Data**

Formula: See Section 3

Molecular Weight: No data available Appearance: Colorless Liquid Odor: Strong Alcohol Odor

Odor Threshold: No data available

pH: No data available Melting Point: -89 C Boiling Point: 83 C Flash Point: 18 C

Flammable Limits in Air: 2.0 - 12.7% (2-Propanol)

Vapor Pressure: No data available Evaporation Rate (BuAc=1): 2.3 Vapor Density (Air=1): No data available

Specific Gravity: < 1

Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: 70%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible Materials: Acids, Strong oxidizing agents, Strong reducing agents, Metals, Peroxides, Epoxides,

Isocyanates, Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion., Ingestion.

Symptoms (Acute): Central Nervous System Depression, Respiratory disorders, Allergies, Laxative effect

Delayed Effects: No data available

**Acute Toxicity:** 

 Chemical Name
 CAS Number
 Oral LD50
 Dermal LD50
 Inhalation LC50

 2-Propanol
 67-63-0
 Oral LD50 Rat
 INHALATION

 5045 mg/kg
 LC50 Rat 16000

Oral LD50 Mouse 3600 mg/kg

Water 7732-18-5 Oral LD50 Rat 90000 mg/kg

Phenolphthalein 77-09-8

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHA2-Propanol67-63-0ListedNot listedNot listedPhenolphthalein77-09-8ListedListedListed

Chronic Effects:

Mutagenicity: Evidence of a mutagenic effect.

Teratogenicity: Evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: Evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Kidneys, Liver, Gastrointestinal tract
Chronic: No information available, Kidneys, Liver, Gastrointestinal tract

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere, Adsorbs to soil/solids

Bioconcentration is not expected to occur.

Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

2-Propanol 67-63-0 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L

96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

Water 7732-18-5 No data available

Phenolphthalein 77-09-8

Section 13 Disposal Information

ppm

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

# **Section 14**

# **Transport Information**

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1219 UN1219

ISOPROPANOL SOLUTION ISOPROPANOL SOLUTION

# **Section 15**

# Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Phenolphthalein	77-09-8	Phenolphthale in	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

# Section 16

# **Additional Information**

Revised: 09/03/2014 Replaces: 08/27/2014 Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

# Phenolphthalein, 1% in 95%



# Section 1

# **Product Description**

Product Name: Phenolphthalein, 1% in 95% Recommended Use: Science education applications

Synonyms: Phenolphthalein solution, Alcoholic, Phenophthalein pH Indicator

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

# Section 2

# Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **DANGER**





Highly flammable liquid and vapor. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs.

#### **GHS Classification:**

Carcinogenicity Category 1B, Flammable Liquid Category 2, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Acute Toxicity Dermal Contains 91.06525 % of the mixture consists of ingredient(s) of unknown toxicity

#### Section 3

# Composition / Information on Ingredients

Chemical Name Ethanol Water 2-Propanol Methanol	<b>CAS #</b> . 64-17-5 7732-18-5 67-63-0 67-56-1 77-09-8	%_ 85.12 4.95 4.7 4.23
Phenolphthalein	77-09-8	1

# **Section 4**

#### First Aid Measures

#### **Emergency and First Aid Procedures**

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Section 5

# **Firefighting Procedures**

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may

explode. Extremely flammable.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

### **Section 6**

# **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided Follow personal protective equipment recommendations found in Section 8 of this MSDS Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. No special spill clean-up considerations. Collect and discard in regular trash.

## Section 7

# Handling and Storage

Handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.

Storage: Storage Code: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

# Section 8

# Protection Information

	ACC	OSHA PEL		
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A
Phenolphthalein	N/A	N/A	N/A	N/A

**Control Parameters** 

Engineering Measures:

Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Eye Protection: Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas

with mild soap and water before eating, drinking, and when leaving work

Gloves:

Nitrile

# Section 9

Physical Data Formula: See Section 3

Molecular Weight: No data available Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: Estimated 79 C Flash Point: Estimated 17 C 17 C

Flammable Limits in Air: Ethyl alcohol: 3.3 - 19%

Vapor Pressure: 40 mmHg at 20 °C Evaporation Rate (BuAc=1): 1.70 Vapor Density (Air=1): 1.5 Specific Gravity: .815 at 15.5 °C Solubility in Water: Soluble

Log Pow (calculated): No data available -0.32 Autoignition Temperature: Estimated 423 C Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: 94%

# Section 10

# Reactivity Data

Reactivity:

**Chemical Stability:** 

Mildly reactive - See below Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition.

Temperatures above the high flash point of this combustible material in combination with

sparks, open flames, or other sources of ignition.

Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials, Strong

oxidizing agents

**Hazardous Decomposition Products:** 

Hazardous Polymerization:

Carbon dioxide Will not occur

**Toxicity Data** 

Section 11

Inhalation and ingestion.

Symptoms (Acute):

Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness, Eye disorders, Allergies, L

axative effect

Delayed Effects:

Routes of Entry

No data available

**Acute Toxicity:** 

Chemical Name Ethanol	<b>CAS Number</b> 64-17-5	Oral LD50 ORAL LD50 Rat	Dermal LD50	Inhalation LC50 INHALATION
		7060 mg/kg		LC50-4H Rat 124.7 MG/L
Water	7732-18-5	Not applicable		
2-Propanol	67-63-0	ORAL LD50 Rat 4396 mg/kg	DERMAL LD50 Rat 12800 mg/kg DERMAL LD50 Rabbit 12870 mg/kg	INHALATION LC50-4H Rat 72.6 MG/L
Methanol	67-56-1	ORAL LD50 Rat 5628 mg/kg	DERMAL LD50 Rabbit 15800 mg/kg	INHALATION LC50-4H Rat 83.2 MG/L INHALATION LC50-4H Rat

Phenolphthalein 77-09-8

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Phenolphthalein	77-09-8	Listed	Listed	Listed

Chronic Effects:

Mutagenicity: Evidence of a mutagenic effect.

Teratogenicity: Evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: Evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Central Nervous System, Eyes, Kidneys, Liver, Gastrointestinal tract

Chronic: Eyes, Kidneys, Liver, Gastrointestinal tract

# Section 12

# **Ecological Data**

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

**Mobility:** This material is expected to have moderate mobility in soil. It absorbs to most soil types.

**Persistence:** Biodegradation is expected to be a major fate process for this material.

Bioconcentration is not expected to occur.

**Degradability:** Biodegrades quickly.

Other Adverse Effects: No data

64000 ppm

**Chemical Name CAS Number Eco Toxicity** 

96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] Ethanol 64-17-5

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L

48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L

Water 7732-18-5 No data available

2-Propanol 67-63-0 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L

96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

Methanol 67-56-1

Phenolphthalein 77-09-8

# Section 13

# Disposal Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

If discarded, this product is considered a RCRA ignitable waste, D001.

# **Section 14**

# Transport Information

Ground - DOT Proper Shipping Name:

UN1170

**Ethanol Solutions** 

Class 3 P.G. II

Air - IATA Proper Shipping Name:

UN1170

**Ethanol Solutions** 

Class 3 P.G. II

# Section 15

# Regulatory Information

**TSCA Status:** 

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Phenolphthalein	77-09-8	Phenolphthale in	No	No	No	No

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

# Section 16

California Prop 65:

#### Additional Information

Revised: 03/20/2013

Replaces: None

Printed: 06-21-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossarv

**ACGIH** American Conference of Governmental NTP National Toxicology Program

Occupational Safety and Health Administration Industrial Hygienists **OSHA** 

CAS Chemical Abstract Service Number Permissible Exposure Limit PEL

ppm CERCLA Comprehensive Environmental Response, Parts per million

	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



# Potassium Acid Phthalate Crystal, Primary Standard, ACS

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Potassium Acid Phthalate Crystal, Primary Standard, ACS

Synonyms/Generic Names: KHP; Potassium biphthalate; Potassium phthalate monobasic; Phthalic

acidmonopotassium salt; Potassium hydrogen phthalate

**Product Number: 4145** 

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

## 2. HAZARDS IDENTIFICATION

OSHA Hazards: No known OSHA hazards.

Target Organs: None

Signal Word: Warning

Pictograms: None

**GHS Classification:** 

Acute toxicity, Oral	Category 5	 	
reductionally, Oral	Category 5	 ······································	

# GHS Label Elements, including precautionary statements:

Hazard State	ments:	
H303	May be harmful if swallowed.	
Precautionar None	y Statements:	
None		

# **Potential Health Effects**

Eyes	May cause eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

# **NFPA Ratings**

in i zi itaaniga	
Health	1
Flammability	1
Reactivity	0
Specific hazard	Not Available

#### **HMIS Ratings**

93		
Health	1	
Fire	1	
Reactivity	0	
Personal	С	

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Potassium Acid Phthalate	100	877-24-7	212-889-4	C8H5KO4	204.22 g/mol

# 4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention if necessary.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
Skin	Immediately flush with plenty of water while removing contaminated clothing and wash using soap. Get medical attention if necessary
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary

# 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product may be flammable at high temperatures. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides, potassium oxides) under fire conditions. (See also Stability and Reactivity section).

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Sweep up and place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

# Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

#### **Personal Protection**

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Other	Not Available

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White solid.
Odor	Not Available
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	297°C (566.6°F)
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	1.640 g/cm <sup>3</sup>
Solubility (ies)	Soluble in cold water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

# 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available
Incompatible Materials	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon oxides, potassium oxides.

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Skin	Not Available	
Eyes	Not Available	<del></del>
Respiratory	Not Available	
Ingestion	LD50 Oral - rat - > 3,200 mg/kg	<del></del> -

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation.
Eyes	Irritation.
Respiratory	Irritation, coughing.
Ingestion	Irritation, nausea, vomiting, diarrhea.

Chronic Toxicity	Not Available	
Teratogenicity	Not Available	
Mutagenicity	Not Available	
Embryotoxicity	Not Available	
Specific Target Organ Toxicity	Not Available	
Reproductive Toxicity	Not Available	
Respiratory/Skin Sensitization	Not Available	

# 12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available	
Bioaccumulative Potential	Not Available	
Mobility in Soil	Not Available	<del></del>
PBT and vPvB Assessment	Not Available	
Other Adverse Effects	Not Available	

# 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

# 14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

# 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	No SARA Hazards
SARA 312	No SARA Hazards
SARA 313	Not Listed
WHMIS Canada	Not Listed

# 16. OTHER INFORMATION

Revision	Date
Revision 1	12/28/2012

Disclaimer: Columbus Chemical Industries, Inc. ("Columbus") believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Columbus has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. COLUMBUS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.

# **Potassium Biphthalate**



# Section 1

# Product Description

**Product Name:** 

Potassium Biphthalate

Recommended Use:

Science education applications

Synonyms:

Potassium Acid Bipthalate, 1,2-Benzenedicarboxylic Acid, Monopotassium Salt

Distributor:

Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information:

800-227-1150 (8am-5pm (ET) M-F)

Chemtrec:

800-424-9300 (Transportation Spill Response 24 hours)

# Section 2

# Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Causes skin irritation.

**GHS Classification:** 

Skin Corrosion/Irritation Category 2

# Section 3

# Composition / Information on Ingredients

Chemical Name Potassium Biphthalate CAS# 877-24-7 %\_ 100

# Section 4

#### First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation:

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: Skin Contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Ta

ke off contaminated clothing and wash before reuse.

Ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# Section 5

# Firefighting Procedures

Extinguishing Media:

Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards:

Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** 

Carbon dioxide. Carbon monoxide

### Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. No special spill clean-up considerations. Collect and discard in regular trash.

#### Section 7

# Handling and Storage

Handling:

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid

creating and inhaling dust.

Storage:

Keep container tightly closed in a cool, well-ventilated place.

Storage Code:

Green - general chemical storage

## Section 8

# **Protection Information**

**ACGIH** 

OSHA PEL

**Chemical Name** Potassium Biphthalate (AWT) N/A

(STEL) N/A

(TWA) N/A

(STEL) N/A

**Control Parameters** 

**Engineering Measures:** 

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Respiratory Protection:

Respirator Type(s): Eye Protection:

Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use.

NIOSH approved air purifying respirator with dust/mist filter.

Wear chemical splash goggles when handling this product. Have an eye wash station

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work

Gloves:

No information available

## Section 9

## Physical Data

Formula: HOOC6H4COOK Molecular Weight: 204.23

Appearance: Colorless to White Crystalline Solid

Odor: None

Odor Threshold: No data available

pH: 3.8 - 4.0 (5% aq. sol.) Melting Point: 295 - 300 C Boiling Point: No data available Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: 1.64 Solubility in Water: Soluble Log Pow (calculated): -2.73 (est)

Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

## Section 10

# Reactivity Data

Reactivity:

Not generally reactive under normal conditions.

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Dustina.

Incompatible Materials:

Strong oxidizing agents

**Hazardous Decomposition Products:** 

Carbon oxides

Hazardous Polymerization:

Will not occur

## Section 11

## Toxicity Data

Routes of Entry

Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Delayed Effects:

No data available No data available

**Acute Toxicity:** 

**Chemical Name** 

**CAS Number** 

Oral LD50

Dermal LD50

Inhalation LC50

Potassium Biphthalate

877-24-7

ORAL LD50 Rat >

Not applicable

Not applicable

3200 mg/kg

Carcinogenicity:

**Chemical Name** 

**CAS Number** 

IARC

NTP

**OSHA** 

Potassium Biphthalate

877-24-7

Not listed

Not listed

Not listed

Chronic Effects:

Mutagenicity:

No evidence of a mutagenic effect.

Teratogenicity:

No evidence of a teratogenic effect (birth defect).

Sensitization: Reproductive: No evidence of a sensitization effect. No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Chronic:

No information available No information available

## Section 12

## **Ecological Data**

Overview:

This material is not expected to be harmful to the ecology.

Mobility:

This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Bioaccumulation: Dissolved into water, Biodegradation Bioconcentration is not expected to occur.

Degradability:

Biodegrades at a moderate rate.

Other Adverse Effects:

No data

**Chemical Name** 

**CAS Number** 

**Eco Toxicity** 

Potassium Biphthalate 877-24-7

Section 13

## Disposal Information

**Disposal Methods:** 

Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

Not Determined

## Section 14

## Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

**TSCA Status:** 

All components in this product are on the TSCA inventory.

Chemical Name

CAS Number § 313 Name

§ 304 RQ **CERCLA RQ**  § 302 TPQ

**CAA 112(2)** 

TO

Potassium Biphthalate

877-24-7

No

Nο

No

No

Nο

## Section 16

## Additional Information

Revised: 06/20/2013

Replaces: 04/29/2013

Printed: 06-21-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

GI	ossa	n

American Conference of Governmental	NTP	National Toxicology Program
Industrial Hygienists	OSHA	Occupational Safety and Health Administration
Chemical Abstract Service Number	PEL	Permissible Exposure Limit
Comprehensive Environmental Response,	ppm	Parts per million
Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
International Agency for Research on Cancer	TLV	Threshold Limit Value
Not Available	TSCA	Toxic Substances Control Act
	IDLH	Immediately dangerous to life and health
	Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer	Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer Not Available  OSHA PEL RCRA RCRA SARA International Agency for Research on Cancer TLV TSCA

## Chemical Product and Company Identification



Boreal Science 399 Vansickie Road 5t. Catherines, Ontario L2S 3T4 Canada Tel: (800) 387-9393 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

POTASSIUM BITARTRATE Product

Tartaric Acid Monopotassium Salt / Cream of Tartar / Potassium Hydrogen Tartrate Synonyms

Hazards Identification Section 2

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required Pictograms: No symbol required Target organs: None known

GHS Classification: None required

GHS Label information: Hazard statement: None required

Precautionary statement: None required

Supplemental information:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

hemical Name	CAS#	- %	EINECS	
otassium bitartrate	868-14-4	100%	212-769-1	
		100 V V V V V V V V V V V V V V V V V V		

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

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Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways. Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage Page E2 of E2

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

. Section B	Exposure Controls / Personal Pro	fection		
Superior Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Potassium bitartrate	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical & Chemical Properties

Appearance: Solid. White, crystalline powder

Odor: No odor

Odor threshold: Data not available

pH: Data not available

Melting / Freezing point: Data not available

Boiling point: Decomposes Flash point: Not flammable

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available

Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.956 @ 20°C

Relative density (Specific gravity): 1.956 @ 20°C Molecular w Solubility(ies): 1 g/162 ml water @ 20°C

Partition coefficient: Data not available

Auto-ignition temperature: Data not available

Decomposition temperature: Data not available

Viscosity: Data not available Molecular formula: KHC<sub>4</sub>H<sub>4</sub>O<sub>6</sub> Molecular weight: 188.18

## Section 10 ... Stability & Reactivity ... ...

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat. Incompatible materials: Strong oxidizers and alkalies. Hazardous decomposition products: Carbon oxides.

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Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Skin: Contact may cause irritation. Eyes: Contact may cause irritation.

Signs and symptoms of exposure: Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: WW8223000

### Representation of the factor of the following the second of the second o

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Mobility in soil: No data available

Bioaccumulative potential: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## The distribution of the second se

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Teles (\*\* Sancia) de Chienatien (Le per Verenco) (Teles Constantes de Co

UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable

Exceptions: Not applicable 2012 ERG Guide # Not applicable

Reportable Quantity: No Marine pollutant: No

# A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.							
CA	CERLCA (RQ)	RCRA code	DSL	NDSL			
sted	Not listed	Not listed	Listed	Not listed			
	CA	CA CERLCA (RQ)	CA CERLCA (RQ) RCRA code	CA CERLCA (RQ) RCRA code DSL	CA CERLCA (RQ) RCRA code DSL NDSL		

## LECTION CONTROL OF CHIEF CONTROL OF CONTROL

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 06/2015 Revision Date: January 11, 2016 Supercedes: June 10, 2014

Section 1 .... Chemical Product and Company Information



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product POTASSIUM BROMIDE

Synonyms None

Section 2 Hazards Identification

Signal word: WARNING Pictograms: GHS07 Target organs: None known



**GHS Classification:** Eye irritation (Category 2B)

GHS Label information: Hazard statement:

H319: Causes serious eye irritation.

#### Precautionary statement:

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Chemical Name	CAS#	%	EINECS	ASSESS TO A STUMBER OF THE STATE OF THE STAT
Potassium bromide	7758-02-3	100%	231-830-3	V
	!			
		:		
	j			

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Egitting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Exposure Controls / Personal Protection

Chemical Name Exposure Limits: Potassium bromide

ACGIH (TLV) Not established

OSHA (PEL) Not established

NIOSH (REL) Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

Section 9 Physical & Chemical Properties

Appearance: Solid. White crystalline powder

Odor: No odor

Odor threshold: Data not available

pH: Data not available

Melting / Freezing point: 760°C (1400°F) Boiling point: 1435°C (2615°F)

Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): 1 mm @ 795°C Vapor density (Air = 1): 4.12

Relative density (Specific gravity): 2.749 @ 25°C

Solubility(ies): 53 g/100 ml water @ 20°C

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available

Viscosity: Data not available Molecular formula: KBr Molecular weight: 119,01

Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Contact with strong acids can liberate hydrogen bromide, strong oxidizers can liberate bromine. Avoid heating above 800°C (1472°F).

Incompatible materials: Strong oxidizers, acids, aluminum and its alloys.

Hazardous decomposition products: Hydrogen bromide gas and/or bromine gas.

## Section (4) Extraological Inform

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause sore throat, coughing, shortness of breath.

Ingestion: Ingestion may cause pain in swallowing, abdominal pain, nausea, and drowsiness.

Skin: Contact with skin may cause irritation and/or dermatitis.

Eyes: Contact with eyes may cause severe irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is

not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Data not available

## Ecological liftermation

Toxicity to fish: Pimephales promelas (fish, fresh water), LC50 = >30,000 ug/L/96 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = >30,000 ug/L/96 hours

Toxicity to algae: No data available

Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section (4. 1722 Indisport Information (US DOT / CANADATIOS) UN/NA number: Not applicable Shipping name: Not Regulated

Hazard class: Not applicable Packing group: Not applicable Exceptions: Not applicable

2012 ERG Guide # Not applicable

Reportable Quantity: No Marine pollutant: No

A chemical is considered to be listed if the CAS num	ber for the anhydrous form i	is on the Inventory list.		A STATE OF THE PARTY OF THE PAR	Charles III. N. Market IV. 200	
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Potassium bromide	Listed	Not listed	Not listed	Listed	Not listed	D2A
						•

## Section (C. Additional Internation)

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

> Revision Date: February 24, 2014 Supercedes: February 24, 2014

# FLINN SCIENTIFIC. INC. Safety Data Sheet (SDS)

SDS #: 618.00

Revision Date: March 21, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Potassium Carbonate

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium carbonate, anhydrous	584-08-7	K <sub>2</sub> CO <sub>3</sub>	138.21	
			:	
Synonyms: Potash; Carbonic acid, dipotassium salt				

## SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313).

If on skin: Rinse cautiously with water for several minutes (P351).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

When heated to decomposition, may emit toxic fumes.

None

In case of fire: Use a tri-class dry chemical fire extinguisher.

established

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Potassium Carbonate

SDS #: 618.00

Revision Date: March 21, 2014

## **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates.

Hygroscopic. Store in a cool, dry place within a Flinn Chem-Saf<sup>TM</sup> bag. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White powder. Odorless.

Melting point: 891 °C

Soluble: Water. Insoluble in alcohol.

Specific gravity: 2.29

## **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers.

Shelf life: Poor, hygroscopic. See Section 7 for further information.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe irritant

ORL-RAT LD<sub>50</sub>: 1870 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: N.A.

SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

## **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (209-529-3).

## SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered soiely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 21, 2014

# Potassium Carbonate, Anhydrous



## Section 1 Product Description

Product Name: Potassium Carbonate, Anhydrous Recommended Use: Science education applications

Synonyms: Potash, Pearl ash

Distributor: Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

# Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

## GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Oral Category 4

# Section 3 Composition / Information on Ingredients

Chemical NameCAS #%Potassium Carbonate, Anhydrous584-08-7100

# Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

# Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Potassium Oxide

# Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Avoid the generation of dusts during clean-up. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

#### **Environmental Precautions:**

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush to sewer.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Avoid creating dusts. Eliminate ignition sources. If a vacuum is used, ensure that the material is wetted or otherwise treated so an explosive dust atmosphere is not created within the vacuum.

#### Handling and Storage Section 7

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke Handling:

when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Avoid

contact with skin and eyes. Avoid contact with clothing.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Avoid creating and inhaling dust. Storage:

Green - general chemical storage Storage Code:

#### Protection Information Section 8

**OSHA PEL ACGIH** (TWA) (STEL) (TWA)(STEL) Chemical Name N/A N/A No data available N/A N/A

Control Parameters

No exposure limits exist for the constituents of this product. General room ventilation **Engineering Measures:** 

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Wear a NIOSH Respiratory Protection:

approved respirator if levels above the exposure limits are possible.

Wear safety glasses with side shields and a Face shield Eye Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Nitrile Gloves:

#### Section 9 Physical Data

Formula: K2CO3 Molecular Weight: 138.21 Appearance: White Powder Odor: No data available Odor Threshold: No data available

pH: 11.6, conc: 10 % (aqueous solution)

Melting Point: 891 C

Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.29 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: N/A

#### Reactivity Data Section 10

No data available Reactivity:

Stable under normal conditions. Chemical Stability:

Conditions to Avoid: None known.

Acids. Strong oxidizing agents Incompatible Materials:

**Hazardous Decomposition Products:** Potassium Oxide, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry
Symptoms (Acute):
Delayed Effects:
Inhalation and ingestion.
Respiratory disorders
No data available

**Acute Toxicity:** 

Chemical Name CAS Number Oral LD50 Dermai LD50 Inhalation LC50
Potassium Carbonate, Anhydrous 584-08-7 Oral LD50 Rat Not determined Not determined

1870 mg/kg Oral LD50 WILD BIRD 100 mg/kg Oral LD50 Mouse 2570 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available584-08-7Not listedNot listedNot listed

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

**Reproductive**: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

V/A 584-08-7

# Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

# Section 14 Transport Information

Ground - DOT Proper Shipping Name:

N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

# Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Page 3 of 4

No data available 584-08-7 No No No No No

# Section 16 Additional Information

Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

<b>Glossary</b> ACGIH	American Conference of Governmental	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS CERCLA	Industrial Hyglenists Chemical Abstract Service Number Comprehensive Environmental Response,	PEL ppm	Permissible Exposure Limit Parts per million
DOT	Compensation, and Liability Act U.S. Department of Transportation	RCRA SARA	Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act
IARC N/A	International Agency for Research on Cancer Not Available	TLV TSCA IDLH	Threshold Limit Value Toxic Substances Control Act Immediately dangerous to life and health

## Potassium Chloride



Section 1

## **Product Description**

**Product Name:** 

Potassium Chloride

Recommended Use:

Science education applications

Synonyms:

Potassium Muriate, Chloride of Potash

Distributor:

Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information:

800-227-1150 (8am-5pm (ET) M-F)

Chemtrec:

## Section 2

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

## WARNING

Causes eye irritation. Harmful to aquatic life.

#### GHS Classification:

Serious Eye Damage/Eye Irritation Category 2B, Hazardous to the aquatic environment - Acute Category 3

**Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas** 

100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

## Section 3

# Composition / Information on Ingredients

Chemical Name Potassium Chloride CAS# 7447-40-7 <u>%</u> 100

# Section 4

## First Aid Measures

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Inhalation:

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water.

Ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5

# Firefighting Procedures

Extinguishing Media:

Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards:

None Known

**Hazardous Combustion Products:** Chlorine containing gases

## Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

Page 1 of 4 Potassium Chloride

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

## Handling and Storage

Handling:

Wash thoroughly after handling. Avoid release to the environment. Keep container tightly closed in a cool, well-ventilated place.

Storage:

Storage Code:

Green - general chemical storage

## Section 8

## Protection Information

**ACGIH** 

**OSHA PEL** 

**Chemical Name** Potassium Chloride (TWA) N/A

(STEL) N/A

(TWA) N/A

(STEL) N/A

**Control Parameters** 

**Engineering Measures:** 

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

Eye Protection:

available.

Skin Protection:

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking,

and when leaving work. No information available

Gloves:

## Section 9 Formula: KCI

Physical Data

Molecular Weight: 74.55 g/mol Appearance: White Crystals

Odor: None

Odor Threshold: No data available

pH: No data available Melting Point: 771 C Boiling Point: 1413 C

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: 1.98 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: 0%

## Section 10

## Reactivity Data

Reactivity:

Not generally reactive under normal conditions.

Chemical Stability: Conditions to Avoid: Stable under normal conditions. None known.

Incompatible Materials:

Bromine Trifluoride

**Hazardous Decomposition Products:** 

Chlorine containing gases Will not occur

Hazardous Polymerization:

Routes of Entry

Section 11

Toxicity Data

Ingestion.

Symptoms (Acute):

Cardiac Arrhythmia, Seizures, Musculoskeletal system, Impaired Kidney Function

Delayed Effects:

No data available

Acute Toxicity:

**Chemical Name** 

**CAS Number** 

Oral LD50

Dermal LD50 Not applicable

Inhalation LC50 Not applicable

Potassium Chloride

7447-40-7

Oral LD50 Rat 2600 mg/kg

Page 2 of 4

Carcinogenicity:

Chemical Name

**CAS Number** 

**IARC** 

NTP

**OSHA** 

Potassium Chloride

7447-40-7

Not listed

Not listed

Not listed

Chronic Effects:

Mutagenicity:

No evidence of a mutagenic effect.

Teratogenicity:

No evidence of a teratogenic effect (birth defect).

Sensitization:

No evidence of a sensitization effect. No evidence of negative reproductive effects.

Reproductive: Target Organ Effects:

Acute: Chronic: Cardiovascular system No data available

Section 12

Ecological Data

Overview:

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility:

This material is expected to have very high mobility in soil. It does not absorb to most soil types.

Persistence:

Dissolved into water

Bioaccumulation: Degradability:

Bioconcentration is not expected to occur. Does not biodegrade readily.

Other Adverse Effects:

No data

Chemical Name

**CAS Number** 

**Eco Toxicity** 

Potassium Chloride

7447-40-7

Aquatic LC50 (96h) Bluegill Sunfish 1060 MG/L

Aquatic EC50 (48h) Daphnia 825 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS 2500 MG/L

Section 13

Disposal Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

Not Determined

Section 14

Transport Information

**Ground - DOT Proper Shipping Name:** 

Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Regulatory Information

**TSCA Status:** 

**Chemical Name** 

CAS

§ 313 Name § 304 RQ

All components in this product are on the TSCA Inventory.

**CERCLA RQ** 

§ 302 TPQ

**CAA 112(2)** 

TQ

Potassium Chloride

7447-40-7

Number

No

No

No

No

No

Section 16

Additional Information

Revised: 04/01/2013

Replaces: 12/19/2012

Printed: 06-21-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

**ACGIH** 

American Conference of Governmental

Industrial Hygienists

NTP

National Toxicology Program

CAS

Chemical Abstract Service Number

U.S. Department of Transportation

**OSHA** PEL

Occupational Safety and Health Administration

**CERCLA** 

Comprehensive Environmental Response,

mqq

Permissible Exposure Limit Parts per million

DOT

Compensation, and Liability Act

**RCRA** SARA

Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act

Potassium Chloride

Page 3 of 4

IARC N/A International Agency for Research on Cancer Not Available

TLV TSCA IDLH Threshold Limit Value Toxic Substances Control Act Immediately dangerous to life and health

Potassium Chloride Page 4 of 4

Afternation (A)

AUTOPIA SOFT THE TOTAL AND AUTOPIA

State State



CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product POTASSIUM CHLORIDE

Synonyms | Muriate of Potash / Potassium Muriate / Potassium Monochloride

<u>र्यक्तामध्य</u>

THE REPORT OF THE PARTY

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: WARNING Pictograms: No symbol required Target organs: None known

**GHS Classification:** 

Acute toxicity, oral (Category 5)

GHS Label information: Hazard statement: H303: May be harmful if swallowed.

Precautionary statement:

P312: Call a POISON CENTER or doctor if you feel unwell.

Ca Prop 65 - WARNING! This product contains a chemical(s) known to the State of California to cause cancer, birth defects, or other reproductive harm.

चलकर्	H-mercelibins			**
Chemical Name	CAS#	%	EINECS	
Potassium chloride Sodium chloride Calcium and Magnesium chlorides and sulfates	7447-40-7 7647-14-5 Various	95.0 - 99.5% 0.3 - 3.7% 0.2 - 1.3%	231-211-8 231-598-3 Various	

#### tarifical transfer to a second

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention,

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### क्षित्रम्मा स्टब्स् विकास 
Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### Section G. Armondation of Territor

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

THE REPORT OF THE PARTY OF THE P

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Steene.	= महाराया भेगाविकाः शिवस्ताना निर्मालन	ioj v	G .	14 A	
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH	
	Particles not otherwise classified	Not established	TWA: 15 mg/m <sup>3</sup> total o		lished

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

រប់គ្នាទី២ គឺសម្រាទេធនីវិស្សារជាំនេះ

Appearance: Solid. White crystals or powder. Odor: No odor.

Odor threshold: Data not available.

pH: 5.4-10.0 (5% solution)

Melting / Freezing point: 772-776°C (1423-1428°F)

Boiling point: 1500°C (2732°F) Sublimes Flash point: Not applicable

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Not applicable

Vapor pressure (mm Hg): Approximately zero Vapor density (Air = 1): 2.57

Relative density (Specific gravity): 1.986-1.990 Solubility(ies): 34.2 g/100 ml water @ 20°C

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available

Viscosity: Data not available Molecular formula: KCI Molecular weight: 74.56

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Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat. Hygroscopic material.

Incompatible materials: Avoid contact with hot Nitric acid, may cause evolution of toxic Nitrosyl chloride. Contact witth other strong acids may produce irritating Hydrogen chloride gas. May react violently with Bromine trifluoride and may explode if mixed with Potassium permanganate and Sulfuric acid. Can react with most metals, such as Iron or Steel, building materials (such as cement), Bromine or Trifluoride. Potentially explosive reaction may occur if mixed with Dichloromaleic anhydride and Urea.

Hazardous decomposition products: None known. See above reactions.

#### ··· signed in an english

Acute toxicity: Oral-rat LD50: 2,600 mg/kg Skin corrosion/irritation: Data not available

Serious eye damage/Irritation: Eyes-rabbit - 500 mg/24 hours - mild irritant.

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available

STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause respiratory irritation, coughing and shortness of breath.

Ingestion: May cause nausea, vomiting, diarrhea, abdominal cramping, irregular heartbeats, dehydration, and hypertension.

Skin: Contact may cause mild irritation, redness.

Eyes: Contact with eyes causes mild irritation including stinging, watering and redness.

Signs and symptoms of exposure: Conditions aggravated by exposure may include kidney disorders and high blood pressure (hypertension). Exercise appropriate

procedures to minimize potential hazards. Additional information: RTECS #: TS8050000

Toxicity to fish: Gambusia affinis (fish, fresh water), LC50 = 10,000 mg/L/24 hours

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Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC100 = 1,010 mg/L/24 hours

Toxicity to algae: Scenedesmus subspicatus (Algae), EC50 = 2,500 mg/L/72 hours

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

### বিল্লানানান্ত্ৰপথিছিল(ছেই নাজন্ত্ৰের

UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable

2012 ERG Guide # Not applicable Exceptions: Not applicable

Reportable Quantity: No Marine pollutant: No

#### THE STREET AT LINE TO SELECT

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

	ISCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Potassium chloride	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product

#### ത്തിലുന്നത് പ്രാബാമ.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make indepenthe information of the informati ERG: Emergency Response Guidebook.

Revision Date: December 4, 2013 Supercedes: September 5, 2013 SDS No.: PP0459 9546 #

## SAFETY DATA SHEET

Properties

Section 1

Chemical Product and Company Information

901 Janesville Ave P.O. Box 901 Fort Atkinson, WI 52536-0901 CHEMTREC 24 Hour Emergency Phone Number (800) 424,4300 For laboratory use only. Not for drug, food or household use.

GENERAL STORAGE CODE GREEN

Product

POTA SISIUMI CHLORIDE

Synonyms Munate of Potash / Potassium Muriate / Potassium Monochloride

Section 2

Hazards Identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of

Chemicals.

Sinnal word: WARNING Pictograms: No symbol required Tarnet organs: None known

GHS Classification:

Acute toxicity, oral (Category 5)

GHS Label information: Hazard statement:

H303; May be harmful if swallowed.

Precautionary statement:

P312: Gall a POISON CENTER or doctor if you feel unwell.

Ca Prop 65 - WARNING! This product contains a chemical(s) known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 3 Chemical Name

Composition / Information on Ingredients

CAS #

Potassium chloride Sodium chloride Calcium and Magnesium chlorides and sulfates 7447-40-7 7847-14-5 Various

95.0 - 99.5% 0.3 - 3,7% 0.2 - 1.3%

231-211-8 231-598-3 Various

ENECS

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air, If not breathing, give artificial respiration, If breathing is difficult, give oxygen, Get medical attention,

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5

Fine Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers coof.

Specific Hazards: Dunng a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### SA07832 POTASSIUM CHLORIDE

Handling & Storage

Page E2 of E2

Precautions for Safe Handling: Read label on container before using. Do not wear contact tenses when working with chemicals. Keep but of reach of challen. Assist contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing cancer.

Conditions for Safe Storage: Store in a coot, dry well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Chemical Name Exposure Limits:

ACGIH (TLV) Not established

Evaporation rate ( = 1): Data not available

Flammability (solid/gas): Data not available.

Explosion limits: Lower / Upper: Not applicable

Relative density (Specific gravity): 1.986-1.990

Vapor pressure (mm Hg): Approximately zero

Vapor density (Air = 1): 2.57

OSHA (PEL) TWA: 15 mg/m² total dust

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Engineering controls: Facilities storing or utilizing this material should be equipped with an evewash facility and a safety shower and fire extinguishing chatterial should be equipped with an evewash facility and a safety shower and fire extinguishing chatterial. Senson has a second should wear safety glasses, goggles, or faceshield. (ab coat or apron, appropriate protective gloves. Use adequate ventilation to keep amborne concentrations live.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume bood or wear a NICS FIRSTER.

Physical & Chemical Properties

Particles not otherwise classified

Oder: No oder.

Appearance: Solid: White crystals or powder

Odor threshold: Data not available.

pH: 5.4-10.0 (5% solution) Melting / Freezing point: 772-775°C (1423-1428°F)

Boiling point: 1590°C (2702°F) Sublimes

Flash point: Not applicable

Solubility(les): 34.2 g/100 ml water @ 20°C

Partition coefficient: Data not available Auto-ignition temperature: Data not average Decomposition temperature: Data cot sessable Viscosity: Data not available

Molecular formula: KCI Molecular weight: 74.56

Section 10

Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: VAB not occur.

Conditions to avoid: Excessive temperatures and heat. Hygroscopic material,

Incompatible materials: Avoid contact with hot Nitric acid, may cause evolution of toxic Nitrosyl chloride. Contact with other strong acids may produce inflating Fryanger chloride gas. May react violently with Bromine trifluoride and may explode if mixed with Potassium permanganate and Sulfunc acid. Can react with most massis, such as 100 or

Steel, building materials (such as cement), Bromine or Trifluoride. Potentially explosive reaction may occur if mixed with Dichloromaleic anhydride and Unia.

Hazardous decomposition products: None known. See above reactions.

and approximation of the control of

Acute toxicity: Oral-rat LD50; 2,500 mg/kg Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Eyes-rabbit - 500 mg/24 hours - mild irritant.

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by DIRC.

OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause respiratory irritation, coughing and shortness of breath.

Ingestion: May cause nausea, vomiting, diarrhea, abdominal oramping, irregular heartbeats, dehydration, and hyperiension.

Skin: Contact may cause mild initation, redness.

Eyes: Contact with eyes causes mild irritation including stinging, watering and redness.

Signs and symptoms of exposure: Conditions aggravated by exposure may adduce kidney disorders and high blood pressure (hypertension). Exercise appropriate

procedures to minimize potential hazards. Additional information: RTECS #: TS8650000

Section 12 Ecological Information

Toxicity to fish: Gambusia affinis (fish, fresh water), LC50 = 10,000 mg/L/24 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC100 = 1,010 mg/L/24 hours

Toxicity to algae: Scenedesmus subspicatus (Algae), EC50 = 2,500 mg/L/72 hours

Bioaccumulative potential: No data available Persistence and degradability: No data available PBT and vPvB assessment: No data available Mobility in soil: No data available

Other adverse affects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

and seem only population (also called

Not listed

Transport Information (US DOT / CANADA TDG)

UN/NA number: Not applicable Hazard class: Not applicable

Exceptions: Not applicable

Shipping name: Not Regulated Packing group: Not applicable 2012 ERG Guide # Not applicable

Listed

Reportable Quantity: No.

Marine pollutant: No.

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the annydrous form is on the Inventory list.

Component

TSCA CERLCA (RQ)

RCRA code

Not fisted

DSL

NOSL Not listed

WHIRE Classification Uncontrolled product

Section 16

Potassium chlonde

Additional Information

The information contained herein is turnished without warranty of any wind. Employers should use this information only as a supplement to other information gathered by them and suck intake interest. cent determinations of suitability and completeness of information from all sources to essure proper use of these materials and the safety and health of employees. NTP: National Tolerance (ARC) international Agency for Research on Concer, OSHA, Occupational Safety and Health Administration, STOT, Specific Target Organ Toxicity, SE, Single Exposure, RC, Nepasiod Employee. ERG Emergency Response Guidebook,

Revision Date: December 3, 2014

Supercedes: December 4, 2013

S(3)  $\hat{\theta}_1(3)$   $\hat{\theta}_2(3)$   $\hat{\theta}_3(3)$   $\hat{\theta}_3(3)$   $\hat{\theta}_3(4)$   $\hat{\theta}_3(4)$ 



CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product

POTASSIUM HYDROGEN PHTHALATE

Synonyms Potass

Potassium Biphthalate; Potassium Acid Phthalate

STARRED A

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This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: WARNING
Pictograms: No symbol required
Target organs: None known

GHS Classification:

Acute toxicity, oral (Category 5)

GHS Label Information: Hazard statement:

H303: May be harmful if swallowed.

Precautionary statement:

P312: Call a POISON CENTER or doctor if you feel unwell.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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Chemical Name		CAS#	%	EINECS	
Potassium hydro	gen phthalate	877-24-7	100%	212-889-4	
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#### Canalage - The Ministra

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

श्रुप्तमक्षात्रा । सम्बद्धाः वर्षम्यमञ्जूषाः १००० वस्त

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

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Evanue Limitor	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Particles not otherwise classified	Not established	TWA: 15 mg/m <sup>3</sup> total dust	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

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Appearance: Solid. White, crystalline powder

Odor: No odor.

Odor threshold: Data not available. pH: 4.0 (0.05M aqueous solution)

Melting / Freezing point: 295-300°C (563-572°F)

Boiling point: Data not available

Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.636

Solubility(ies): Soluble in water.

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: C<sub>8</sub>H<sub>5</sub>KO<sub>4</sub> Molecular weight: 204.23

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat.

Incompatible materials: Strong oxidizers,.

Hazardous decomposition products: Carbon oxides, potassium oxides.

Acute toxicity: Oral-rat I D50: 3,200 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA; No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause respiratory irritation.

Ingestion: Ingestion may cause nausea, vomiting, and diarrhea.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is

not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: CZ4326000

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

UN/NA number: Not applicable Hazard class: Not applicable

Shipping name: Not Regulated

Packing group: Not applicable 2012 ERG Guide # Not applicable

Reportable Quantity: No

Marine pollutant: No

### Exceptions: Not applicable Godfold.

A Chemical is considered to be used if the CAS number for the armydrous form is on the inventory is:								
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification		
Potassium hydrogen phthalate	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product		
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make indeper dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Pro IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, vees. NTP: National Toxicology Program, ERG: Emergency Response Guidebook.

Supercedes: January 4, 2012 Revision Date: April 12, 2013

Section 1

**Chemical Product and Company Identification** 

Page E1 of E2



221 Rochester Street Avon, NY 14414 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product

POTASSIUM HYDROGEN PHTHALATE, 0.1 MOLAR SOLUTION

Synonyms

Potassium hydrogen phthalate, Water Solution

Section 2

Hazards Identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required Pictograms: No symbol required Target organs: None known

GHS Classification: None required

GHS Label information: Hazard statement: None required

Precautionary statement: None required

Supplemental information:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Ingredients		
CAS#	%	EINECS
7732-18-5 877-24-7	97.96% 2.04%	231-791-2 212-889-4
	CAS # 7732-18-5	CAS # % 7732-18-5 97.96%

#### Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage Page E2 of E2

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adjuguate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal Protect	tion		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Particles not otherwise classified	None established.	TWA: 15 mg/m <sup>3</sup> total dust	None established.

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

#### Section 9 Physical & Chemical Properties

Appearance: Clear, colorless liquid

Odor: None

Odor threshold: Data not available.

pH: Data not available

Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water)

Flash point: Data not available

Evaporation rate (Water = 1): <1

Flammability (solid/gas): Data not available.

Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water)

Relative density (Specific gravity): Approximately 1.0 (water)

Solubility(ies): Complete in water.

Partition coefficient: Data not available
Auto-ignition temperature: Data not available
Decomposition temperature: Data not available.

Viscosity: Data not available.

Molecular formula: Mixture

Molecular weight: Mixture

## Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Carbon oxides, potassium oxides.

#### Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 3,200 mg/kg (Potassium Hydrogen Phthalate)

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: No adverse health effects expected from inhalation. Ingestion: No adverse health effects expected by ingestion. Skin: Not expected to be a health hazard from skin exposure.

Eyes: Not expected to be a health hazard.

Signs and symptoms of exposure: Contact with eyes may cause transient irritation. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: CZ4326000 (Potassium Hydrogen Phthalate)

#### Section 12 Ecological Information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

#### Section 14 Transport Information (US DOT / CANADA TDG)

UN/NA number: Not applicable Shipping name: Not Regulated

Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No

Exceptions: Not applicable 2016 ERG Guide # Not applicable

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	
Potassium hydrogen phthalate	Listed	Not listed	Not listed	Listed	Not listed	

## Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERC: Emergency Response Guidebook.

Form 06/2015 Revision Date: September 23, 2016 Supercedes: September 23, 2016

**SDS No.:** PP0570

#### Section 1

Chemical Product and Company Information



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product POTASSIUM HYDROXIDE

Synonyms Caustic Potash; Potassium Hydrate

## Section 2 Hazards Identification

Signal word: DANGER Pictograms: GHS05 / GHS07 Target organs: None known.





GHS Classification: Acute tox. (Category 4) Skin corr. (Category 1A)

## GHS Label information: Hazard statement:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

#### Precautionary statement:

P260: Do not breathe dust.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER or doctor.

P303+P361+P355; IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340; IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

nemical Name	CAS#	%	EINECS	
otassium hydroxide	1310-58-3	100%	215-181-3	
	<u>:</u> 			
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	н			

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 3 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

# Section 6 ... Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Exposure Controls / Personal Protection ACGIH (TLV) Chemical Name OSHA (PEL) NIOSH (REL) **Exposure Limits:** Potassium hydroxide STEL: C 2mg/m3 None established STEL: C 2mg/m3

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

## Section 9 Physical & Chemical Properties

Appearance: Solid, white pellets

Odor: No odor.

Odor threshold: Data not available.

Boiling point: 1320°C (2408°F) Flash point: Not flammable.

pH: Data not available. Melting / Freezing point: 361°C (682°F) Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 1 mm @ 719°C Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.044 Solubility(ies): Complete in water.

Evaporation rate ( = 1): Data not available

Partition coefficient: Data not available Auto-ignition temperature: Data not available. Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: KOH Molecular weight: 56.11

## Section 10 Stability & Reactivity & House

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatible materials: Acids, aluminum, halogens, nitro compounds, organic materials, acid chlorides, acid anydrides, magnesium, copper, lin and zinc.

Hazardous decomposition products: Hydrogen gas in contact with metals.

## Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 365 mg/kg (IUCLID dataset) Skin corrosion/irritation: Skin-rabbit - Corrosive Serious eye damage/irritation: Eyes-rabbit - Corrosive Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful by inhalation. Ingestion: Harmful by ingestion. Skin: Contact with skin causes burns. Eyes: Contact causes damage.

Signs and symptoms of exposure: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and

vomitina.

Additional information: RTECS #: TT2100000

## Section 12 Dec - Ecological information

Toxicity to fish: Gambus affinis (fish, fresh water), LC50 = 85 mg/l/24 hours Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 / Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (cr. 1994)

UN/NA number: UN1813 Shipping name: Potassium hydroxide, solid

Hazard class: 8 Packing group: II Reportable Quantity: 1,000 lbs (454 kg) Marine pollutant: No

Exceptions: Limited quantity equal to or less than 1 Kg 2012 ERG Guide # 154

# Section 15 Regulatory information & La T

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.								
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification		
Potassium hydroxide	Listed	Listed	D002, D003	Listed	Not listed	E; D1B		

## Section: 6 # .... Additional information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure ERG: Emergency Response Guidebook,

> Revision Date: January 30, 2013 Supercedes: January 4, 2012

# Section 1. Chemical Product and Company Information



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product POTASSIUM IODATE Synonyms Iodic Acid, Potassium Salt

## Hazarda kontification

Signal word: DANGER Pictograms: GHS03 Target organs: Kidneys



**GHS Classification:** 

Oxidizing solid (Category 2) Skin irritation (Category 3) Eye irritation (Category 2B)

GHS Label information: Hazard statement:

H272: May intensify fire; oxidizer. H316: Causes mild skin irritation. H320; Causes eye irritation.

#### Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220: Keep away from clothing/incompatible/combustible materials.

P221: Take any precaution to avoid mixing with combustibles/acids/oxidizers.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical attention. P337+P313; If eye irritation persists: Get medical attention.

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water

spray to extinguish.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

hemical Name	CAS#	%	EINECS	
otassium iodate	7758-05-6	99-100%	231-831-9	
		* *************************************		
		11		
	i			

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

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Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material is an oxidizer and greatly increases the burning rate of combustible materials. May explode when mixed with combustible materials. May explode in contact with organic and reducing materials.

## Action Law See Action in Adjournment Leading The Committee of the Committe

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

(2012 EMERGENCY RESPONSE GUIDEBOOK, (PHH50-ERG2012), GUIDE # 140)

## Section 7 . . . Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Keep away from combustible

# Section 6 1 gar it is Exposure Commist Personal Profestion Chemical Name ACGIH (TLV) **Exposure Limits:** OSHA (PEL) NIOSH (REL) Particles not otherwise classified Not established TWA: 15 mg/m<sup>3</sup> total dust Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

## ion Physical & Chemical Properties

Appearance: Solid. White crystalline powder.

Odor: Slight acrid odor. Odor threshold: Data not available. pH: 5 - 8 (5% aqueous solution) Meiting / Freezing point: Decomposes Boiling point: Data not available Flash point: Data not available

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Non-flammable Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): 3.98 Solubility(ies): 83.3 g/L (20°C) in water.

Partition coefficient: (n-octanol / water): Low Pow: 0.04 Auto-ignition temperature: Data not available

Decomposition temperature: 560°C Viscosity: Data not available. Molecular formula: KIO<sub>3</sub> Molecular weight: 214,00

## Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Incompatible materials: Reducing substances, organic products, combustible materials, and metals. Hazardous decomposition products: May include iodine fumes, hydrogen iodide and potassium oxides.

## Section ( ) The load substitution and the load of the

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause irritation to mucous membranes.

Ingestion: May cause nausea, vomiting, diarrhea, and abdominal pain.

Skin: Contact may cause irritation.

Eyes: Contact with eyes may cause irritation and burning.

Signs and symptoms of exposure: Chronic exposure may cause thyroid adenoma, goiter, iodism, skin rashes, headaches, runny nose, weakness, anemic and general

depression.

Additional Information: RTECS #: NN1350000 

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential: Not potentially bioaccumulable (log Pow <1)

Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

HILE COMMUNICATION OF THE STANDARDS

UN/NA number: UN1479 Shipping name: Oxidizing solid, n.o.s., (Potassium iodate) Hazard class: 5.1 Packing group: III Reportable Quantity: No Marine pollutant: No

Exceptions: Limited quantity equal to or less than 5 Kg 2012 ERG Guide # 140

at is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

A chemical is considered to be listed if the CAS number for the	anhydrous form	is on the Inventory list.				
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Potassium iodate	Listed	Not listed	Not listed	Listed	Not listed	<b>©</b> <sup>c</sup>

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, ARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

> Revision Date: March 20, 2013 Supercedes: January 4, 2012

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\$100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660

**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

**Product** 

POTASSIUM IODIDE

Synonyms

None

#### 经国际的现在

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals,

ikenskingen (biologi

Signal word: WARNING Pictograms: GHS07 Target organs: Thyroid



GHS Classification:

Acute toxicity, oral (Category 5) Skin sensitization (Category 1A)

GHS Label information: Hazard statement: H303: May be harmful if swallowed. H317: May cause an allergic skin reaction.

#### Precautionary statement:

P261: Avoid breathing dust.

P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap

P333+P313: If skin irritation or rash occurs: Get medical attention. P312: Call a POISON CENTER or doctor if you feel unwell.

P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Name	CAS#	%	EINECS	
Potassium iodide	7681-11-0	100%	231-659-4	
	1			
	:			

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If imitation occurs, get medical attention.

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with strong oxidizers may cause fire or explosion.

## वेसमेलकार्यकार्यकारकार विकासायक

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dust. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Seiglone)	ে <del>ই</del> পেন্ডারের সমস্থার প্রসাধনার বার্টার স্থি <b>রের রে</b> র			
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Ellinis.	Particulates not otherwise classified	None established	TWA: 15 ppm total dust	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

#### 化性性性 经收益

Appearance: Solid, white crystals,

Odor: No odor

Odor threshold: Data not available.

pH: 7.0

Melting / Freezing point: 680°C (1256°F) Boiling point: 1330°C (2426°F)

Flash point: Non-combustible

Evaporation rate ( = 1): Not applicable Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 3.12 Solubility(ies): Complete in water.

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: Kl Molecular weight: 166.01

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Protect from light, air, moisture and excessive temperatures.

Incompatible materials: Reacts violently with alkaline metals, diazonium salts, oxidants, bromine and chlorine trifluorides, and fluorine perchlorate, and may cause explosion and/or fire. NOTE: Solutions of this product are corrosive to most metals.

Hazardous decomposition products: Yields iodine when in contact with air. Releases iodine, potassium monoxide, and hydrogen iodide, when in contact with moist air.

Acute toxicity: Oral-rat LD50: 4800 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May cause irritation of respiratory tract.

Ingestion: Large doses may cause gastrointestinal upset and weakness. Skin: May cause mild irritation and redness on prolonged contact.

Eyes: Can be irritating with redness and pain.

Signs and symptoms of exposure: Hypothyroidism with possibility of goitre (hypertrophy of the throid gland), possible sensitization of skin. Chronic ingestion of jedides may produce "iodism" which may be characterized by skin rash, running nose, headache, and irritation of mucous membranes. Weakness, anemia, loss of weight, and general depression may also occur. Additional information: RTECS #: NN1575000

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## UN/NA number: Not applicable

Hazard class: Not applicable Exceptions: Not applicable

Shipping name: Not Regulated

Packing group: Not applicable 2012 ERG Guide # Not applicable Reportable Quantity: No

Marine pollutant: No

#### शहरी हैं।

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.						
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Potassium iodide	Listed	Not listed	Not listed	Listed	Not listed	D2A

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: October 1, 2013 Supercedes: January 4, 2012

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date: 12.16.2014** 

## Potassium Iodide 0.05M

## SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Potassium lodide 0.05M

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: KEMPi1170-A

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc. 9 Barnhart Drive Hanover, PA 17331 1-717-632-1291

### **Supplier Details:**

AquaPhoenix Scientific Inc. 9 Barnhart Drive, Hanover PA 17331 (717) 632-1291

## Emergency telephone number:

ChemTel: (24-hour) (US and Canada)

1-(800)-255-3924

## SECTION 2: Hazards identification

### Classification of the substance or mixture:



Skin Irritation, Category 2. Eye Irritation, Category 2.

Signal word: None

## **Hazard statements:**

Causes serious eye irritation.

Causes skin irritation.

## Precautionary statements:

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with soap and water.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

If eye irritation persists get medical advice/attention.

## Other Non-GHS Classification: None

**Effective date: 12.16.2014** 



## SECTION 3: Composition/information on ingredients

### Ingredients:

Ingredients:			
CAS 7681-11-0	Potassium Iodide	0.83 %	
CAS 7732-18-5	Deionized Water	99.12 %	
CAS 144-55-8	Sodium Bicarbonate	0.05 %	
		Percentages are by weight	

## SECTION 4: First aid measures

### Description of first aid measures

#### After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

#### After skin contact:

Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation persists or if concerned.

### After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

## After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

## Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath.

## Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

#### SECTION 5: Firefighting measures

## Extinguishing media

### Suitable extinguishing agents:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

### Unsuitable extinguishing agents: None

#### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors.

## Advice for firefighters:

## Protective equipment:

Use NIOSH-approved respiratory protection/breathing apparatus.

## Additional information (precautions):

**Effective date: 12.16.2014** 

## Potassium lodide 0.05M

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

## SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.

## **Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Small quantities may be flushed to drains with plenty of water.

### Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

#### Reference to other sections: None

## SECTION 7: Handling and storage

## Precautions for safe handling:

Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing.

## Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly closed. Protect from freezing and physical damage.

## SECTION 8: Exposure controls/personal protection





**Control parameters:** 7681-11-0, Potassium lodide, ACS, ACGIH NIOSH 0.01 mg/m3.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume

hood.

**Respiratory protection:** Use suitable respiratory protective device when high concentrations are

present. For spills, respiratory protection may be advisable. Normal

ventilation is adequate.

**Protection of skin:** The glove material has to be impermeable and resistant to the product/

the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and

the degradation.

**Eye protection:** Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling

chemicals. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes

and skin.

**Effective date: 12.16.2014** 

## Potassium lodide 0.05M

## SECTION 9: Physical and chemical properties

Appearance (physical state, color):		Explosion limit lower: >>> Explosion limit upper:	Not determined Not determined
Odor:	Odorless	Vapor pressure at 20°C:	Not determined
Odor threshold:	Not determined	Vapor density:	Not determined
	Not determined	Relative density:	Approx 1.07 - 1.36
Melting/Freezing point:	Approx 0°C	Solubilities:	Soluble in water.
Boiling point/Boiling range:	Арргох 100°С	Partition coefficient (n- octanol/water)	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition in temperature:	Not determined
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined		

## SECTION 10: Stability and reactivity

## Reactivity:

Nonreactive under normal conditions.

#### Chemical stability:

No decomposition if used and stored according to specifications.

## Possible hazardous reactions:

None under normal processing.

#### Conditions to avoid:

exposure to light. Incompatible Materials.

## Incompatible materials:

Strong acids. Strong bases. Strong oxidizers.

## Hazardous decomposition products:

Hydrogen iodide. lodine gas. May include oxides of iodine.

## SECTION 11: Toxicological information

## Acute Toxicity:

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

: Rabbit: causes irritation. 7681-11-0.

## Serious eye damage/irritation:

: Rabbit: causes irritation. 7681-11-0.

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

Germ cell mutagenicity: No additional information.

**Effective date: 12.16.2014** 



Reproductive Toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Additional toxicological information: No additional information.

### SECTION 12: Ecological information

### **Ecotoxicity:**

: Crustacea LC50 Zebra mussel (Dreissena polymorpha) 220 - 313 mg/l, 24 hours, 7681-11-0.

: Fish LC50 - Oncorhynchus mykiss (rainbow trout) - 2,190 mg/l - 96 h, 7681-11-0.

Persistence and degradability: No additional information.

Bioaccumulative potential:

Not expected to bio accumulate.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

## **SECTION 13: Disposal considerations**

#### Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approve plant for destruction.

## **SECTION 14: Transport Information**

**US DOT** 

UN Number:

ADR, ADN, DOT, IMDG, IATA

Not Regulated.

**Limited Quantity Exception:** 

None

Bulk:

hle): None

Non Bulk:

RQ (if applicable): None

RQ (if applicable): None

Proper shipping Name: Not Regulated.

Proper shipping Name: Not Regulated.

Hazard Class: None

Hazard Class: None

Packing Group: Not Regulated.

Packing Group: Not Regulated.

Marine Pollutant (if applicable): No

Marine Pollutant (if applicable): No

additional information.

Comments: None

additional information.

Comments: None

## SECTION 15: Regulatory information

### United States (USA)

## SARA Section 311/312 (Specific toxic chemical listings):

Acute

Effective date: 12.16.2014

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## SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

### RCRA (hazardous waste code):

None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

### Canadian Domestic Substances List (DSL):

All ingredients are listed.

## SECTION 16: Other Information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA**: 1-0-0 **HMIS**: 1-0-0

GHS Full Text Phrases: None

#### Abbreviations and Acronyms:

IMDG International Maritime Code for Dangerous Goods.

PNEC. Predicted No-Effect Concentration (REACH).

CFR Code of Federal Regulations (USA).

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA. Resource Conservation and Recovery Act (USA).

TSCA. Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 12.16.2014

# The Police of th

DOT US Department of Transportation.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists.

CAS Chemical Abstracts Service (division of the American Chemical Society).

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).



# Part of Thermo Fisher Scientific

# **SAFETY DATA SHEET**

Creation Date 14-Sep-2009

Revision Date 06-Nov-2015

Revision Number 2

1. Identification

**Product Name** 

Potassium iodide

Cat No.:

BP367-500; P410-3; P410-10; P410-100; P410-500; P412-3; P412-10;

P412-500

**Synonyms** 

KI (Granular, Free-flowing/Certified ACS/USP/FCC)

Recommended Use

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410

Tel: (201) 796-7100

**Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

Other hazards

May cause pulmonary edema.

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Potassium iodide	7681-11-0	>95

# 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Ingestion

Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects Notes to Physician

No information available. May cause pulmonary edema

Treat symptomatically

# 5. Fire-fighting measures

Unsuitable Extinguishing Media

No information available

Flash Point Method -

No information available No information available

**Autoignition Temperature Explosion Limits** 

No information available

Upper Lower

No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge

No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

# **Hazardous Combustion Products**

Hydrogen iodide

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health

Flammability

Instability 0

Physical hazards N/A

O

# 6. Accidental release measures

Personal Precautions **Environmental Precautions**  Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological

information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.

# 7. Handling and storage

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store under an inert atmosphere.

# 8. Exposure controls / personal protection

#### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium iodide	TWA: 0.01 ppm		NIOGH IDEH
Component	Quebec	Mexico OEL (TWA)	Ontonio TMASM
Potassium jodide		THE SECTION OF THE SE	Ontario TWAEV

TWA: 0.01 ppm Legend

ACGIH - American Conference of Governmental Industrial Hygienists

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** 

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

**Physical State** Appearance

Odor

**Odor Threshold** 

pН

Melting Point/Range

**Boiling Point/Range** 

Flash Point

**Evaporation Rate** 

Flammability (solid,gas)

Flammability or explosive limits

Upper Lower

Vapor Pressure **Vapor Density** 

**Specific Gravity** 

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature **Decomposition Temperature** 

Viscosity

Molecular Formula Molecular Weight

Solid White

Odorless

No information available 6-8 5% in water (20°C)

680 °C / 1256 °F

1330 °C / 2426 °F @ 760 mmHg

No information available

Not applicable

No information available

No data available

No data available 1 mmHg @ 745 °C

Not applicable No information available

Soluble in water

No data available No information available No information available

Not applicable

ΙK 166

# 10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Air sensitive. Light sensitive. Hygroscopic.

Potassium iodide

Revision Date 06-Nov-2015

Conditions to Avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.

Exposure to air. Exposure to light.

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products Hydrogen iodide

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological information

#### **Acute Toxicity**

# **Product Information**

Component Information

Component	LD50.0		
	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium iodide	2779 mg/kg (Rat)	Not listed	
Toxicologically Synergistic	No information available	Trot listed	Not listed

**Products** 

No information available

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

irritation

May cause irritation

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium iodide	7681-11 <b>-</b> 0	Not listed	Not listed	Not listed		
Mutagenic Effects		NI C	Titot nated	Not listed	Not listed	Not listed

Mutagenic Effects

No information available

Reproductive Effects

No information available.

**Developmental Effects** 

No information available.

Teratogenicity

No information available.

STOT - single exposure

None known

STOT - repeated exposure

None known

Aspiration hazard

No information available

Symptoms / effects,both acute and May cause pulmonary edema

delayed

**Endocrine Disruptor Information** 

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

# 12. Ecological information

# Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium iodide	•	Onchorhynchus mykiss:		- Water Flea
		LC50: 3200 mg/L/120h		_

Persistence and Degradability **Bioaccumulation/ Accumulation**  Soluble in water Persistence is unlikely based on information available.

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component Potassium iodide	log Pow 0.04
	0.04

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated

TDG Not regulated <u>IATA</u> Not regulated IMDG/IMO Not regulated

# 15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECCC	KEGI	1
Potassium iodide	X	X		231-659-4			· 1000	LINUS	AICS	IECSC	KECL	l
Legend:							_ ^		Х	X 1	. X	f.

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

# U.S. Federal Regulations

**TSCA 12(b)** 

Not applicable

**SARA 313** 

Not applicable

SARA 311/312 Hazard Categories

Acute Health Hazard No Chronic Health Hazard No Fire Hazard No Sudden Release of Pressure Hazard No Reactive Hazard Nο

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration Not applicable

**CERCLA** 

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

Not applicable

# U.S. Department of Transportation

Reportable Quantity (RQ):

Ν

**DOT Marine Pollutant** 

Ν

**DOT Severe Marine Pollutant** 

Ν

# U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

# Other International Regulations

Mexico - Grade

No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

# 16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

**Creation Date** 

14-Sep-2009

**Revision Date Print Date** 

06-Nov-2015 06-Nov-2015

**Revision Summary** 

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**

# Potassium Iodide, 1.0M



#### Section 1 **Product Description**

**Product Name:** Potassium Iodide, 1.0M Recommended Use: Science education applications Potassium Iodide, Water Solution Synonyms: Distributor: Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

# **Section 2**

# **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





May cause an allergic skin reaction. Causes eye irritation.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 2B

Other Safety Precautions: May cause eve irritation.

> May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

#### Section 3 **Composition / Information on Ingredients**

**Chemical Name** CAS# % 7732-18-5 85.15 Water Potassium Iodide 7681-11-0 14.85

#### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** Potassium Oxide, Hydrogen Iodide

# Section 6

# **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Remove soiled clothing and launder before reuse.

Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Contain the discharged material.

# Section 7

# **Handling and Storage**

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make

empty containers hazardous; use caution.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

# Section 8

# **Protection Information**

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Potassium Iodide
 0.01 ppm TWA
 N/A
 N/A
 N/A

(inhalable fraction and vapor)

**Control Parameters** 

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure. Good general room ventilation

should be sufficient to control airborne contaminates to safe levels.

Personal Protective Equipment (PPE):

Respiratory Protection:

Respirator Type(s):

Eye Protection:

Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use.

NIOSH approved air purifying respirator with dust/mist filter.

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves:

Nitrile

# Section 9

# **Physical Data**

Formula: N/A

Molecular Weight: 166.00 g/mol

Appearance: Colorless to pale yellow Liquid

Odor: None

Odor Threshold: No data available

pH: Neutral

Melting Point: 681 C Boiling Point: 100 C

Flash Point: No data available Flammable Limits in Air: N/A N/A Vapor Pressure: 14

Evaporation Rate (BuAc=1): Slightly < 1

Vapor Density (Air=1): 0.7 Specific Gravity: Approx. 1.0 Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: 99.17%

# Section 10

# **Reactivity Data**

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Elevated temperatures

**Incompatible Materials:** Water-reactive materials, Strong oxidizing agents

**Hazardous Decomposition Products:** Hydrogen Iodide, Potassium Oxide

**Hazardous Polymerization:** Will not occur

Section 11 Toxicity Data

Routes of Entry Ingestion, skin and eye contact.

Symptoms (Acute):

Delayed Effects: No data available

**Acute Toxicity:** 

**Chemical Name CAS Number** Oral LD50 **Dermal LD50** Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Potassium Iodide 7681-11-0

Carcinogenicity:

**CAS Number IARC** NTP **OSHA Chemical Name** Potassium Iodide 7681-11-0 Not listed Not listed Not listed

**Chronic Effects:** 

No evidence of a mutagenic effect. Mutagenicity:

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: Evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Dissolved into water

Bioaccumulation: No data No data Degradability: Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** Water 7732-18-5 No data available

Potassium Iodide 7681-11-0

Disposal Information Section 13

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

**Section 14** Transport Information

**Ground - DOT Proper Shipping Name:** Air - IATA Proper Shipping Name:

N/A Not regulated for air transport by IATA.

Section 15		Regulatory Information						
TSCA Status:	All compo	All components in this product are on the TSCA Inventory.						
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ		
Potassium Iodide	7681-11-0	No	No	No	No	No		

# Section 16 Additional Information

Revised: 04/27/2017 Replaces: 09/09/2015 Printed: 05-05-2017

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Chemical Product and Company Information



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

POTASSIUM NITRATE Product Synonyms Potash Nitrate / Saltpeter

Section 2. Hazards Identification

Signal word: DANGER Pictograms: GHS03 / GHS07 Target organs: Red blood cells





**GHS Classification:** 

Oxidizing solid (Category 2) Skin irritation (Category 2) Eye irritation (Category 2B) STOT-SE (Category 3)

GHS Label Information: Hazard statement:

H272: May intensify fire; oxidizer.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

#### Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220: Keep away from clothing/incompatible/combustible materials

P221: Take any precaution to avoid mixing with combustibles/reducing agents.

P261: Avoid breathing dust.

P264: Wash hands thoroughly after handling.

P271. Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water

spray to extinguish.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P332+P313: If skin irritation occurs: Get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Name	CAS#	%	EINECS	
Potassium nitrate	7757-79-1	100%	231-818-8	
		111111		

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION, Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 2 Fire Fighting Measures 3

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Not combustible but enhances combustion of other substances. Risk of fire and explosion on contact with reducing agents.

# Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with scap and water.

Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources

Section 8

Exposure Controls / Personal Protection Chemical Name

ACGIH (TLV)

OSHA (PEL)

NIOSH (REL)

Exposure Limits: Potassium nitrate

Not established

Not established

Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical & Chemical Properties

Appearance: Solid. White crystals or prills Odor: No odor.

Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: 333°C (631°F)

Boiling point: 400°C (752°F) Flash point: Not flammable

Evaporation rate ( = 1): Data not available Flammability (solid/gas): Data not available,

Explosion limits: Lower / Upper: Data not available

Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): 3.0

Relative density (Specific gravity): 2.1 Solubility(ies): 36 g/100 ml in water. Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: KNO3 Molecular weight: 101.11

Section 10 12 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Heavy metals, phosphites, organic compounds, carbonaceous materials, strong acids and many other materials.

Hazardous decomposition products: Nitrogen oxides and toxic metal fumes.

Acute toxicity: Oral-rat LD50: 3015 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation causes cough, sore throat,

Ingestion: Ingestion causes abdominal pain, blue lips, fingernails and skin, dizziness, labored breathing, confusion, convulsions, diarrhea, headache, nausea, unconsciousness.

Skin: Contact with skin causes redness.

Eyes: Contact with eyes causes redness and pain.

Signs and symptoms of exposure: Ingestion could cause effects on the blood. This may result in formation of methaemoglobin. The effects may be delayed. Medical

observation is indicated. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: TT3700000

Section (2) Ecological Information

Toxicity to fish: Poecilia reticulata (fish, fresh water), LC50 = 1378 mg/L/96 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), TLm = 39 mg/L/96 hours

Toxicity to algae: No data available

Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

erations. These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Con 14 (Cakada (DG)

UN/NA number: UN1486 Hazard class: 5.1

Shipping name: Potassium nitrate Packing group: III

Exceptions: Limited quantity equal to or less than 5 Kg

Reportable Quantity: No 2012 ERG Guide # 140

Marine pollutant: No

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component **TSCA** CERLCA (RQ) RCRA code DSL NDSL WHMIS Classification Potassium nitrate Listed Not listed D001 Listed Not listed **(**a)

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT. Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,

Revision Date: May 31, 2013 Supercedes: January 4, 2012

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 640.00

Revision Date: March 21, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Potassium Nitrate**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Oxidizing solids (Category 3). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

SECTION 3 -- COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium nitrate	7757-79-1	$KNO_3$	101.11	

# **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

Strong oxidizer. Dangerous fire risk if shocked or heated. Avoid contact with organic materials.

When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

# FLINN SCIENTIFIC, INC.

Safety Data Sheet

**Potassium Nitrate** 

SDS #: 640.00

Revision Date: March 21, 2014

# SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites and azides. Slightly hygroscopic. Store in a Flinn Chem-Saf<sup>TM</sup> bag in a cool, dry place. Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Transparent, colorless crystals or powder. Odorless. Soluble: Water and glycerin. Slightly in alcohol.

Melting point: 333 °C Specific gravity: 2.1062

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong reducers, finely powdered metals, strong acids, organic and combustible materials. Shelf life: Good, slightly hygroscopic. See Section 7 for further information.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant

ORL-RAT LD<sub>50</sub>: 3750 mg/kg

Chronic effects: N.A.

Target organs: Blood, central nervous system

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26b is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Potassium Nitrate. Hazard class: 5.1, Oxidizer. UN number: UN1486.

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-818-8), RCRA code D001.

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 21, 2014

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 645.00

Revision Date: March 21, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Potassium Permanganate**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

DANGER

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink, or smoke when using this product (P270).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium permanganate	7722-64-7	KMnO₄	158.04	

# **SECTION 4 — FIRST AID MEASURES**

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Rinse cautiously with water for several minutes.

If swallowed: Rinse mouth (P330). Call a POISON CENTER or physician if you feel unwell (P301+P312).

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

Powerful oxidizing agent; dangerous fire and explosion risk. When heated in contact with organic or combustible materials, can explode. When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

None established

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

Potassium Permanganate

SDS #: 645.00

Revision Date: March 21, 2014

#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates.

Store in a cool dry place.

Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Dark purple to blue crystals with a metallic sheen. Odorless.

Soluble: Water, acetone and methyl alcohol

Melting point: 240 °C (decomposes)

Specific gravity: 2.7032

## SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong reducers, organic and combustible materials, finely powdered metals, peroxides, aluminum, zinc, lead, copper, and their alloys.

Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, corrosive. Overexposure may produce anemia, swelling of the throat with possible suffocation, kidney damage and infertility in men. Chronic effects: N.A.

Target organs: Central nervous system, blood, kidneys, lungs

ORL-RAT LD<sub>50</sub>: 1090 mg/kg

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

## **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

# SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #12a is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Potassium Permanganate; UN number: UN1490. Hazard class: 5.1, Oxidizer.

N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-760-3), RCRA code D001.

## **SECTION 16 — OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 21, 2014

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Chemical Product and Company Information

**SDS No.:** PP0700



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only.

Not for drug, food or household use.

POTASSIUM PERMANGANATE

Synonyms Chameleon Mineral

Section 2 Hazards Identification

Signal word: DANGER

Product

Pictograms: GHS03 / GHS07 / GHS09

Target organs: None known



**GHS Classification:** 

Oxidizing solid (Category 2)
Acute toxicity, ingestion (Category 4)
Aquatic acute (Category 1)
Aquatic chronic (Category 1)

GHS Label information: Hazard statement:

H272: May intensify fire; oxidizer. H302: Harmful if swallowed. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220: Keep away from clothing/incompatible/combustible materials.

P221: Take any precaution to avoid mixing with combustibles/acids/oxidizers.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P370+P378: In case of fire: Use WATER ONLY to extinguish.

P391: Collect spillage.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Name	rmation on Ingredients ::: CAS #	%	EINECS
Potassium permanganate	7722-64-7	100%	231-760-3
		4 mg = 1	
	! :		
	*		

#### Section 4 First Aid Measures

**INGESTION:** HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE BURNS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

# Section 6 Fire Fighting Measures

Suitable Extinguishing Media: Use WATER ONLY to extinguish fires. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon<sup>®</sup> may provide limited control.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Powerful oxidizing material, will accelerate burning when involved in a fire. Explosive in contact with sulfuric acid or hydrogen peroxide. May react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, oil, clothing, etc.). Spontaneously flammable on contact with glycerin or ethylene glycol.

#### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

# Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a coot, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Exposure Controls / Personal Protection

Chemical Name **Exposure Limits:** 

Manganese and inorganic compounds, as Mn

OSHA (PEL) ACGIH (TLV) TWA: 0.2 mg/m<sup>3</sup>(A4) STEL: C 5 mg/m<sup>3</sup>

NIOSH (REL) TWA: 1 mg/m<sup>3</sup> / STEL: 3 mg/m<sup>3</sup>

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

#### Section 9 Physical & Chemical Properties

Appearance: Solid, shiny, dark purple crystals. Odor: No odor.

Odor threshold: Data not available.

Flash point: Data not available

pH: 7-9 (20 g/L water)

Melting / Freezing point: Decomposes Boiling point: Decomposes

Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available

Vapor density (Air = 1): 5.47

Relative density (Specific gravity): 2.7032 @ 25°C

Solubility(ies): 6.5 g/100 ml water @ 20°C

Evaporation rate ( = 1): Data not available

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: 150°C (302°F)

Viscosity: Data not available. Molecular formula: KMnO<sub>4</sub> Molecular weight: 158.04

## Section 10 Stability & Reactivity

Hazardous polymerization: Will not occur. Chemical stability: Stable

Conditions to avoid: Avoid exposure to incompatible materials and excessive temperatures.

Incompatible materials: Alcohols, arsenites, bromides, iodides, charcoal, hydrochloric acid, organic materials, ferrous or mercurous salts, hypophosphites, hyposulfites, sul-

fites, peroxides, oxalates, strong reducing agents, strong acids, formaldehyde, ethylene glycol, combustible organics, metal powders.

Hazardous decomposition products: Oxygen, oxides of potassium, oxides of manganese.

#### Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 750 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause burning sensation, cough, sore throat, shortness of breath, labored breathing. Symptoms may be delayed.

Ingestion: Ingestion causes burning sensation, abdominal pain, diarrhea, nausea, vomiting, shock or collapse.

Skin: Contact with skin causes redness, burns and pain.

Eyes: Contact with eyes causes redness, pain and severe deep burns. Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: SD6475000

#### 

Toxicity to fish: Gambusia affinis (fish, fresh water), LC100 = 18 mg/L/24 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC0 = >0.63 mg/L

Toxicity to algae: Anabaena sp. (Algae), EC50 = <0.5 mg/L/18 days/growth rate

Bioaccumulative potential: No data available Persistence and degradability: No data available PBT and vPvB assessment: No data available Mobility in soil: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency

# Section 14 Transport Information

UN/NA number: UN1490 Shipping name: Potassium permanganate

Marine pollutant: No Reportable Quantity: 100 lbs (45.4 kg) Hazard class: 5.1 Packing group: Il

2012 ERG Guide # 140 Exceptions: Limited quantity equal to or less than 1 Kg

#### Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Potassium permanganate	Listed	100 lbs (45.4 kg)	D001	Listed	Not listed	C ; E

#### Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Supercedes: January 4, 2012 Revision Date: September 6, 2013

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 646.00

Revision Date: January 16, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Potassium Permanganate Solution**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word N/A

Pictograms

#### **SECTION 2 — HAZARDS IDENTIFICATION**

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium permanganate Water	7722-64-7 7732-18-5	$ m KMnO_4 \ H_2O$	158.04 18.00	0.2-3% 99.8%

## **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None established

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

# FLINN SCIENTIFIC, INC.

Safety Data Sheet

**Potassium Permanganate Solution** 

SDS #: 646.00

Revision Date: January 16, 2014

# **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates.

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Dark, blue-violet liquid. Odorless.

#### SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Good.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: 1090 mg/kg as potassium permanganate

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

#### **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #12a is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

Not listed.

#### SECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: January 16, 2014

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 653.00

Revision Date: March 27, 2014

SECTION 1 —	CHEMICAL	<b>PRODUCT</b>	AND (	COMPANY	IDENTIFICATION

## Potassium Sulfate

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word WARNING

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Skin corrosion or irritation (Category 3). Causes mild skin irritation (H316).

Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium sulfate	7778-80-5	$K_2SO_4$	174.27	

# **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313). If skin irritation occurs: Get medical advice or attention (P332+P313).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None established

# **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

**Potassium Sulfate** 

**SDS #**: 653.00

Revision Date: March 27, 2014

# **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates. Store in a cool dry place.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

#### **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

White crystalline powder. Odorless. Soluble: Water. Insoluble in alcohol.

Melting point: 1069 °C Specific gravity: 2.7

#### **SECTION 10 — STABILITY AND REACTIVITY**

Reacts violently with aluminum and magnesium. Avoid contact with strong oxidizers. Shelf life: Indefinite, if stored properly.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: G.I. disturbances

Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: 6600 mg/kg

IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

## **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-915-5).

#### **SECTION 16 — OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 27, 2014

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 654.00

Revision Date: March 21, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Potassium Thiocyanate**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

# **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class; Acute toxicity, oral, dermal, and inhalation (Category 4). Harmful if swallowed, inhaled or in contact with skin (H302+H312+H332). Do not eat, drink or smoke when using this product (P270). Avoid breathing dust or fumes (P261).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium thiocyanate	333-20-0	KSCN	97.18	

## **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Rinse cautiously with water for several minutes (P302+P351). Call a POISON CENTER if you feel unwell (P312).

Wash contaminated clothing before reuse (P362).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

When heated to decomposition, may emit toxic fumes.

None

In case of fire: Use a tri-class dry chemical fire extinguisher.

established

## **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

Potassium Thiocyanate

SDS #: 654.00

Revision Date: March 21, 2014

#### **SECTION 7 -- HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #7. Store with arsenates, cyanides and cyanates.

Moisture sensitive material. Store in a Flinn Chem-Saf<sup>TM</sup> bag. Store in a cool dry place.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless transparent crystals. Odorless. Soluble: Water, alcohol and acetone

Specific gravity: 1.88 Melting point: 173 °C

## **SECTION 10 --- STABILITY AND REACTIVITY**

If heated or in contact with concentrated acids, may liberate poisonous fumes of hydrogen cyanide. Avoid contact with strong acids, oxidizing agents, and heat.

Shelf life: Fair to poor, deliquescent. See Section 7 for further information.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, eczema Chronic effects: N.A. Target organs: N.A. ORL-RAT LD<sub>50</sub>: 854 mg/kg IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

#### **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (206-370-1)

#### **SECTION 16 — OTHER INFORMATION**

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of hardling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIBBILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 21, 2014



23943-0001

Date prepared: 5/7/2003

Last revised: 10/26/2015

Prang Disappearing Blue Washable Glue Stick

A FILE COMPANY

Company Identification:

1. PRODUCT AND COMPANY IDENTIFICATION

Dixon Ticonderoga Company 615 Crescent Executive Court ste.500

Lake Mary Fl, 2746 Telephone:(800) 824-9430

Product Name: Prang Disappearing Blue Washable Glue Stick

**Product Code(s):** 15089, 15090, 15091

2. HAZARDS IDENTIFICATION

Not an acute hazard- conforms to ASTM D-4236

Emergency Overview CAUTION

Packaging may be subject to ignition by fire and may release toxic or other irritating gases

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS-# %Weight

Products bearing the CL Certified Products or AP Approved Products seals of the Art and Creative Materials Institute's, Inc.are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute's Toxicological Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans or cause acute or chronic health problems.

Conforms to ASTM D-4236

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

	4. FIRST AID MEASURES
Eye Contact	
	Immediately flush with plenty of eater. After initial flushing, remove any contact lenses and continue flusing for a least 15 minutes.
	Get medical attention immediately if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water. Use a mild soap if avaliable. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.
Inhalation	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion	If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Center immediately, Never give anything by mouth to a unconscious person.
	5. Fire Fighting Measures
Extinguishing Media:	Carbon dioxide, dry chemical or foam recommended. Apply water to cool exposed closed containers
Special Fire Fighting	
Procedures:	Self contained breathing apparatus (SCBA) and full protective equipment recommended

Unusual Fire and
Explosion Hazards:
Flammability Data:
No data
No data

No data

No data

 Flash Point:
 No data

 Flammability limits:
 No data

 Auto-ignition temperature:
 No data

 Dust cloud ignition temperature:
 No data

 Dust layer ignition temperature:
 No data

Health	1
Flammability	0
Reactivity	0
Protective Equi	Α

Small Spill: Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

Large Spill: Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

7. Handling and Storage

Contents will stain. The use of smocks and gloves to protect personal clothing is suggested. Wash hands and surface

Handling: after use.

Storing: Do not store near heat or open flame

Continued on next page

6. Accidental Release Measures

Item Numbers: 23943-1301, 23943-1401, 23943-1501

For further product safety information call: 800-824-9430

Prang Disappearing Blue		Material Safety Data Sheet . Exposure Controls/Personal Protection	Page 2/2
Engineering Controls:	The use of local ventilation is rec	commended	
Personal protection:	No special skin protection requir	red. Wash skin if irritation is experienced. Eye protection is recommended	
**		9. Physical and Chemical Properties	
Physical State:	Semi Solid		
Appearance:	Round Semi Solid		
Color:	Blue		
Odor:	Slight Odor		
pH:	No Data		
Specific gravity:	No Data		
Boiling point:	No Data		
Freezing/melting point:	No Data		
Evaporation rate:	No Data		
Solubility:	No Data		
Volatility:	No Data		
		10. Stability and Reactivity	
General:	This product is stable and hazard	dous polymerization will not occur	
Incompatibility:	None known	Saldra autori ● Saldra	
Hazardous decomposition	: As with all burning organic matt	ter, carbon monoxide and other toxic fumes may be released	
		11. Toxicological Information	
At-/Chi- Ti-it	Products bearing the CP Certifie	ed Products or AP Approved products seals of the Art and Creative Material's Instit	ute are certified
Acute/Chronic Toxicity,	a program of toxicological evalu	ation by a medical expert, subject to review by the Institute's Toxicological Advisor	ory Board to
Carcinogenicity, Mutagenicity	contain no materials in sufficient	t quantities to be toxic or injurious to humans or cause acute or chronic health prol	olems. Conform
wittagementy	ASTM D-4236		
		12. Ecological Information	
This product has not been e	valuated for overall environmenta	l effects	
		13. Disposal Considerations	
Contain and place in appro-	ed container. Dispose of per Loca	al, State, and Federal regulations	
		14. Transportation Information	
DOT Classification:	Not Regulatec (US)	UN/NA Number:	Not Regulated
TDG Classification:	Not Regulatec (Canada)	IMO/IMDG Classification:	Not Regulated
ADR/RID Classification:	Not Regulatec (Europe)	ICAO/IATA Classification:	Not Regulated
		15. Regulatory Information	
OSHA Hazard Communic	ation Status Standard 29 CFR		
Toxic Substances Control Status	Act (18CA) All ingredients of	this material has been reported to the US EPA and are included in the TSCA inver-	погу
		16. Other Information	
	' 6 4' H 000 024 042		

This information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or results obtained from the use thereof. Dixon Ticonderoga company assumes no responsibility for personal damage caused by the product. Users assume all risks associated with use.

**IIDIXON** 

Validated and Verified by Dixon Ticonderoga Co. October 26,2015

Item Numbers: 23943-1301, 23943-1401, 23943-1501



00021-XXXX

# Safety Data Sheet

Prang Ready To Use Tempera Paint

COMPANY

1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Dixon Ticonderoga Company Date prepared: 5/7/2003 615 Crescent Executive Court ste.500 Last revised: 10/26/2015

Lake Mary Fl, 2746 Telephone: (800) 824-9430

Prang Ready To Use Tempera Paint **Product Name:** 

21601, 21602, 21603, 21604, 21605, 21606, 21607, 21608, 21609, 21618, 21619, 21634, 21696, 23201, 23202, 23203, 23204, Product Code(s):

23205, 23206, 23207, 23208, 23209, 23218, 23219, 23234, 22801, 22802, 22803, 22804, 22805, 22806, 22807, 22808, 22809,

2. HAZARDS IDENTIFICATION

Not an acute hazard- conforms to ASTM D-4236

Emergency Overview

Packaging may be subject to ignition by fire and may release toxic or other irritating gases

3. COMPOSITION/INFORMATION ON INGREDIENTS Component CAS-#

Products bearing the CL Certified Products or AP Approved Products seals of the Art and Creative Materials Institute's, Inc.are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute's Toxicological Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans or cause acute or chronic health problems.

Conforms to ASTM D-4236

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

4. FIRST AID MEASURES
Immediately flush with plenty of eater. After initial flushing, remove any contact lenses and continue flusing for a least 15 minutes.
Get medical attention immediately if irritation develops and persists.
Wash off immediately with soap and plenty of water. Use a mild soap if avaliable. Rinse immediately with plenty of water for at leas 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.
If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Center immediately, Never give anything by mouth to a unconscious person.
5. Fire Fighting Measures

Carbon dioxide, dry chemical or foam recommended. Apply water to cool exposed closed containers

Special Fire Fighting Procedures:

**Explosion Hazards:** 

Self contained breathing apparatus (SCBA) and full protective equipment recommended

Unusual Fire and Packaging may be subject to ignition by fire and may release toxic gases

Flammability Data: No data Flash Point: No data Flammability limits: No data Auto-ignition temperature: No data **Dust cloud ignition temperature:** No data No data **Dust layer ignition temperature:** 

HMIS Ratings		
Health	1	
Flammability	0	
Reactivity	0	
Protective Equi	A	

%Weight

6. Accidental Release Measures

Small Spill: Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

Large Spill: Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

7. Handling and Storage

Contents will stain. The use of smocks and gloves to protect personal clothing is suggested. Wash hands and surface

Handling:

Do not store near heat or open flame Storing:

Continued on next page

Page 1 of 2

For further product safety information call: 800-824-9430

Prang Ready To Use Tem	pera Paint Material Safety Data Sheet  8. Exposure Controls/Personal Protection		Page 2/2
Engles and a Control	The use of local ventilation is recommended		
Engineering Controls:	The use of local ventilation is recommended		
Personal protection:	No special skin protection required. Wash skin if irritation is experienced. Eye	protection is recommended	
	9. Physical and Chemical Properties		
Physical State:	Liquid		
Appearance:	Assorted Colored Liquids		
Color:	Various Colors		
Odor:	Slight Tempera Paint Type Color		
pH:	No Data		
Specific gravity:	No Data		
Boiling point:	No Data		
Freezing/melting point:	No Data		
Evaporation rate:	No Data		
Solubility:	No Data		
Volatility:	No Data		
	10. Stability and Reactivity		
General:	This product is stable and hazardous polymerization will not occur		
Incompatibility:	None known		
Hazardous decomposition	: As with all burning organic matter, carbon monoxide and other toxic fumes ma	y be released	
^~	11. Toxicological Information	"·	
Acute/Chronic Toxicity,	Products bearing the CP Certified Products or AP Approved products seals of the	he Art and Creative Material's Insti	tute are certified in
Carcinogenicity,	a program of toxicological evaluation by a medical expert, subject to review by	the Institute's Toxicological Advise	ory Board to
Mutagenicity	contain no materials in sufficient quantities to be toxic or injurious to humans of	or cause acute or chronic health pro	blems. Conforms
wittingementy	ASTM D-4236		
	12. Ecological Information		
This product has not been of	evaluated for overall environmental effects		
	13. Disposal Considerations		
Contain and place in appro	ved container. Dispose of per Local, State, and Federal regulations		
	14. Transportation Information		
DOT Classification:	Not Regulatec (US)	UN/NA Number:	Not Regulated
TDG Classification:	Not Regulatec (Canada)	IMO/IMDG Classification:	Not Regulated
ADR/RID Classification:	Not Regulatec (Europe)	ICAO/IATA Classification:	Not Regulated
	15. Regulatory Information		
OSHA Hazard Communic	This product is not considered to be a hazardous substance under Status Standard 29 CFR 1910.1200	r OSHA's Federal Hazard Commun	ication

This information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or results obtained from the use thereof. Dixon Ticonderoga company assumes no responsibility for personal damage caused by the product. Users assume all risks associated with use.

16. Other Information

Toxic Substances Control Act (TSCA) All ingredients of this material has been reported to the US EPA and are included in the TSCA inventory

IIDIXON'

Validated and Verified by Dixon Ticonderoga Co. October 26,2015

00350-XXXX

Date prepared: 5/7/2003

Last revised: 10/26/2015

%Weight



#### **Safety Data Sheet** Prang Washable Watercolor Set

COMPANY

1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Dixon Ticonderoga Company

615 Crescent Executive Court ste.500

Lake Mary Fl, 2746 Telephone: (800) 824-9430

**Product Name:** Prang Washable Watercolor Set

Product Code(s):

80525, 16016, 80519

2. HAZARDS IDENTIFICATION

Not an acute hazard- conforms to ASTM D-4236

Emergency Overview

Packaging may be subject to ignition by fire and may release toxic or other irritating gases

3. COMPOSITION/INFORMATION ON INGREDIENTS CAS-#

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

Component Products bearing the CL Certified Products or AP Approved Products seals of the Art and Creative Materials Institute's, Inc.are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute's Toxicological Advisory Board, to contain no materials in sufficient quantities to

be toxic or injurious to humans or cause acute or chronic health problems. Conforms to ASTM D-4236

4. FIRST AID MEASURES

Eye Contact Immediately flush with plenty of eater. After initial flushing, remove any contact lenses and continue flusing for a least 15 minutes.

Get medical attention immediately if irritation develops and persists

Skin Contact Wash off immediately with soap and plenty of water. Use a mild soap if avaliable. Rinse immediately with plenty of water for at least

15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

Inhalation If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention

Ingestion If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Center immediately, Never give anything by mouth to an

unconscious person.

5. Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide, dry chemical or foam recommended. Apply water to cool exposed closed containers

Special Fire Fighting

Procedures: Self contained breathing apparatus (SCBA) and full protective equipment recommended

Unusual Fire and Packaging may be subject to ignition by fire and may release toxic gases Explosion Hazards:

Flammability Data: No data Flash Point: No data Flammability limits: No data Auto-ignition temperature: No data **Dust cloud ignition temperature:** No data No data **Dust layer ignition temperature:** 

HMIS Ratings		
Health	1	
Flammability	0	
Reactivity	0	
Protective Equi	Α	

6. Accidental Release Measures

Small Spill: Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

Large Spill: Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

7. Handling and Storage

Contents will stain. The use of smocks and gloves to protect personal clothing is suggested. Wash hands and surface

Handling:

Do not store near heat or open flame Storing:

Continued on next page

Prang Washable Waterco			Page 2/2
	8. Exposure Controls/Personal Protection		
Engineering Controls:	The use of local ventilation is recommended		
Personal protection:	No special skin protection required. Wash skin if irritation is experienced. Eye	protection is recommended	
***	9. Physical and Chemical Properties	*	
Physical State:	Semi solid		
Appearance:	Assorted Colored Cakes		
Color:	Various Colors		
Odor:	Slight Odor		
pH:	No Data		
Specific gravity:	No Data		
Boiling point:	No Data		
Freezing/melting point:	No Data		
Evaporation rate:	No Data		
Solubility:	No Data		
Volatility:	No Data		
	10. Stability and Reactivity		
General:	This product is stable and hazardous polymerization will not occur		
Incompatibility:	None known		
	: As with all burning organic matter, carbon monoxide and other toxic fumes ma	v be released	
	11. Toxicological Information		
EC 1 VIII	Products bearing the CP Certified Products or AP Approved products seals of t	he Art and Creative Material's Insti	tute are certified
Acute/Chronic Toxicity,	a program of toxicological evaluation by a medical expert, subject to review by		
Carcinogenicity,	contain no materials in sufficient quantities to be toxic or injurious to humans		
Mutagenicity	ASTM D-4236	r	
	12. Ecological Information		
This product has not been e	valuated for overall environmental effects		
	13. Disposal Considerations		
Contain and place in appro-	ved container. Dispose of per Local, State, and Federal regulations		
	14. Transportation Information		
DOT Classification:	Not Regulatec (US)	UN/NA Number:	Not Regulate
TDG Classification:	Not Regulatec (Canada)	IMO/IMDG Classification:	Not Regulate
ADR/RID Classification:	Not Regulatec (Europe)	ICAO/IATA Classification:	Not Regulate
	15. Regulatory Information		
OSHA Hazard Communic	This product is not considered to be a hazardous substance under Status Standard 29 CFR 1910.1200	r OSHA's Federal Hazard Commur	nication
Toxic Substances Control Status	Act (TSCA) All ingredients of this material has been reported to the US EPA	and are included in the TSCA inve	entory
	16. Other Information		
	1.6. 4. 11. 000 024 0420	X7 11 4 4 4 4 4 X7 101 4 1 TX1	

This information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or results obtained from the use thereof. Dixon Ticonderoga company assumes no responsibility for personal damage caused by the product. Users assume all risks associated with use.

**IIDIXON** 

Validated and Verified by Dixon Ticonderoga Co. October 26,2015

For further product safety information call: 800-824-9430

CP INDUSTRIES

MATERIAL SAFETY DATA SHEET

DATE PREPARED: MAY 27, 2011

# SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

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PRODUCT IDENTITY: PREMIERE BRASS AND METAL POLISH

DISTRIBUTED BY:
W.W. GRAINGER, INC.

100 GRAINGER PARKWAY LAKE FOREST, IL 60045

TELEPHONE NUMBER FOR INFORMATION: (800) 4543-4931

EMERGENCY TELEPHONE NUMBER: (800) 535-5053

# SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

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SUBSTANCE DESCRIPTION CAS#

PETROLEUM DISTILLATES 8052-41-3

AMMONIUM HYDROXIDE 1336-21-6

PROPRIETARY SURFACTANT BLEND N/A

HAZARD RATINGS:

HEALTH 2 - MODERATE

FIRE 2 - MODERATE

REACTIVITY 0 - MINIMAL

SPECIAL NONE

# **SECTION 3. HAZARDS IDENTIFICATION**

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DANGER:

HARMFUL OR FATAL IF SWALLOWED. EYE IRRITANT, VAPORS CAN BE HARMFUL. DO NOT INGEST OR INHALE. USE PRODUCT IN WELL VENTILATED AREA. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE.

STATEMENT OF HAZARDS: CONTACT MAY CAUSE EYE AND SKIN IRRITATION.

FIRE AND EXPLOSION HAZARDS:

COMBUSTIBLE LIQUID WITH FLASH POINT ABOVE 100 F (38 C).

PRIMARY ROUTE OF EXPOSURE:

SKIN AND EYE CONTACT ARE THE PRIMARY ROUTES OF EXPOSURE TO THIS PRODUCT.

SKIN CONTACT - ACUTE: SKIN CONTACT MAY CAUSE MILD IRRITATION.

EYE CONTACT - ACUTE: EYE CONTACT CAN CAUSE IRRITATION.

#### **SECTION 4. FIRST AID MEASURES**

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INHALATION FIRST AID:

INHALATION IS UNLIKELY; HOWEVER, IF IT DOES OCCUR, REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. SEEK MEDICAL ATTENTION

SKIN CONTACT FIRST AID:

WASH OFF WITH WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

EYE CONTACT FIRST AID:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS APART TO ENSURE FLUSHING OF ENTIRE EYE SURFACE. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.

INGESTION FIRST AID:

IF SWALLOWED DO NOT INDUCE VOMITING. RINSE MOUTH AND GIVE LARGE QUANTITIES OF WATER. CONTACT A PHYSICIAN OR POISON CONTROL IMMEDIATELY. NEVER GIVE AN UNSEEN MEDICAL ATTENTION.

#### **SECTION 5. FIRE FIGHTING MEASURES**

A top

FLASH POINT: GREATER THAN 100.0 F 38.0 C FLASH METHOD: PENSKY-MARTEN'S CLOSED CUP

AUTO IGNITION TEMPERATURE: GREATER THAN 302.0 F 150.0 C

UPPER EXPLOSION LIMIT: N/D LOWER EXPLOSION LIMIT: N/D

EXTINGUISHING MEDIA:

REGULAR FOAM, DRY CHEMICAL OR CARBON DIOXIDE. DIRECT APPLICATION OF HIGH PRESSURE WATER STREAMS MAY SCATTER BURNING MATERIAL.

FIRE FIGHTING PROCEDURE:

AS IN ANY FIRE, PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES, OR PRODUCTS

OF COMBUSTION. EVACUATE NON-ESSENTIAL PERSONNEL FROM THE FIRE AREA. FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE/PRESSURE DEMAND, SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. IF POSSIBLE, REMOVE CONTAINERS FROM THE FIRE AREA. KEEP FIRE EXPOSED CONTAINERS COOL WITH A WATER FOG OR SPRAY TO PREVENT EXCESSIVE HEAT. HIGH PRESSURE WATER MAY SPREAD PRODUCT FROM BROKEN CONTAINERS INCREASING CONTAMINATION OR FIRE HAZARD.

FIRE AND EXPLOSION HAZARD: COMBUSTIBLE

SEE SECTION 14 FOR ANY SHIPPING CLASSIFICATIONS.

OTHER FIRE AND EXPLOSION HAZARDS:

FLASH POINT - CLOSED CUP: 180 DEG. F (82 DEG. C)

NFPA HEALTH RATING

2

NFPA FLAMMABILITY RATING 2

NFPA REACTIVITY RATING 0

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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#### CLEANUP:

FOR SMALL SPILLS SOAK UP WITH AN INERT ABSORBENT MATERIAL AND DISPOSE OF IN AN APPROPRIATE WASTE CONTAINER. LARGE SPILLS SHOULD BE DIKED, CONTAINED AND COLLECTED FOR LATER DISPOSAL ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS.

# **SECTION 7. HANDLING AND STORAGE**

A top

#### HANDLING:

#### DANGER:

HARMFUL OR FATAL IF SWALLOWED. IRRITATING TO EYES, AND HAS HARMFUL VAPOR. USE IN A WELL VENTILATED AREA.

#### STORAGE:

STORE IN AN AREA INACCESSIBLE TO CHILDREN AND PETS. CLOSE CONTAINER AFTER EACH USE. CONTAINERS SHOULD BE STORED IN A COOL, DRY AND WELL VENTILATED, AREA AWAY FROM STRONG OXIDIZING AGENTS.

MAXIMUM STORAGE TEMPERATURE: 120.0 F 49.0 C

SEE GENERAL COMMENTS

## GENERAL COMMENTS:

KEEP CONTAINERS TIGHTLY CLOSED UNTIL READY FOR USE. THE STATED MAXIMUM STORAGE TEMPERATURE IS FOR QUALITY PURPOSES ONLY. TEMPERATURES EXCEEDING 120 FF MAY CAUSE COLOR DEGRADATION, AND AN OVERALL DECREASE IN PRODUCT

OUALITY.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A top

RESPIRATORY PROTECTION:

NONE USUALLY REQUIRED WITH USE IN WELL VENTILATED AREA.

SKIN PROTECTION:

NONE USUALLY REQUIRED WITH NORMAL USE. MAY CAUSE MILD SKIN IRRITATION AFTER PROLONGED OR REPEATED USE. EMERGENCY RESPONDERS SHOULD WEAR IMPERMEABLE GLOVES.

EYE PROTECTION:

AVOID EYE CONTACT. EMERGENCY RESPONDERS SHOULD WEAR FULL EYE AND FACE PROTECTION.

FOR EXPOSURE LIMITS SEE SECTION 2.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

⊿@⊾ top

BOILING RANGE: 212 F

VAPOR DENSITY (AIR = 1.0): N/D

DENSITY: 1 G/CM3

PERCENT VOLATILE MATTER: N/D

EVAPORATION RATE: N/D

SOLUBILITY IN WATER: INSOLUBLE

APPEARANCE: OPAQUE WHITE LIQUID

ODOR: CITRUS

PH: 9 - 10

# **SECTION 10. STABILITY AND REACTIVITY**

A top

STABILITY: STABLE

CONDITIONS TO AVOID: EXPOSURE TO HIGH TEMPERATURES AND OPEN FLAMES

INCOMPATIBILITY: STRONG OXIDIZING AGENTS

DECOMPOSITION: TOXIC OXIDES OF CARBON AND HYDROCARBONS

POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR

## **SECTION 11. TOXICOLOGICAL INFORMATION**

d∆ top

EYE CONTACT: MILD IRRITATION.

INHALATION: NONE KNOWN.

SKIN CONTACT: PROLONGED CONTINUAL EXPOSURE CAN BE IRRITATING.

INGESTION: MAY BE HARMFUL OR FATAL IF SWALLOWED.

CHRONIC: NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE INFORMATION.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Å top

NOT AVAILABLE.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

△ top

DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

#### **SECTION 14. TRANSPORT INFORMATION**

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DOT SHIPPING NAME: NOT REGULATED.

## **SECTION 15. REGULATORY INFORMATION**

△ top

OSHA CATEGORY: HAZARDOUS.

SARA 313 SUPPLIER NOTIFICATIONS: NOT REPORTABLE.

ALL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY

WHMIS (CANADA): NOT REGULATED.

## **SECTION 16. OTHER INFORMATION**

A top

SPECIAL PRECAUTIONS OR OTHER COMMENTS: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST OBSERVED.

SPECIAL PRECAUTIONS OR OTHER COMMENTS:
THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT
WARRANTED TO BE REGARDLESS OF WHOM IT ORIGINATES WITH. RECIPIENTS ARE
ADVISED TO CONFIRM PRIOR TO NEED THAT THE INFORMATION IS CURRENT,
APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.





## PRESTONE ® DexCool 50/50 Prediluted Extended Life ANTIFREEZE/COOLANT

Date Prepared: 09/20/2013

#### SAFETY DATA SHEET

## 1. Product And Company Identification

SDS ID: SDS484

PRODUCT NAME:

Prestone ® DexCool 50/50 Prediluted Extended Life Antifreeze/Coolant 71159, AF850, AF850-55, 88862645, 88864314, 88864315, 9986100-1KL

PRODUCT NUMBER: FORMULA NUMBER:

YA-956B-P50, YA-956B-P50-B

MANUFACTURER:

CANADIAN OFFICE:

Prestone Products Corporation

FRAM Group (Canada), Inc.

Danbury, CT 06810-5109

Mississauga, Ontario L5L 3S6

## MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:

(800)890-2075 (in the US) (800)668-9349 (in Canada)

## TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):

CHEMTREC 1-800-424-9300 (in the US)

CANUTEC (613)996-6666 (in Canada)

SDS DATE OF PREPARATION/REVISION: 09/20/13

PRODUCT USE: Automobile Antifreeze - consumer product

RESTRICTIONS ON USE: None identified

#### 2. Hazards Identification

## GHS/HAZCOM 2012 Classification:

Health	Physical
Acute Toxicity Category 4	Not Hazardous
Specific Target Organ Toxicity – repeated exposure	
Category 2	
Reproductive Toxicity Category 2	

#### Label Elements





#### WARNING!

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

H373 May cause damage to kidneys through prolonged or repeated exposure.

## Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapors.

P264 Wash exposed skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P281 Use personal protective equipment as required.





## PRESTONE ® DexCool 50/50 Prediluted Extended Life ANTIFREEZE/COOLANT

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## Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

P330 Rinsc mouth.

P308 + P313 IF exposed or concerned: Get medical advice.

#### Disposal:

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

## 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Ethylene Glycol	107-21-1	45-55
Water	7732-18-5	45-55
2-Ethyl Hexanoic Acid, Sodium Salt	19766-89-3	1-5
Diethylene Glycol	111-46-6	0-5

#### The exact concentrations are a trade secret.

#### 4. First Aid Measures

INHALATION: Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get medical attention.

SKIN CONTACT: Remove contaminated clothing. Immediately wash contacted area thoroughly with soap and water. If irritation persists, get medical attention.

EYE CONTACT: Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

INGESTION: Seek immediate medical attention. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

MOST IMPORTANT SYMPTOMS: May cause eye irritation. Inhalation of mists may cause nose and throat irritation and nervous system effects. Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED: Seek immediate medical attention for large ingestions.

NOTES TO PHYSICIAN: The principal toxic effects of ethylene glycol, when swallowed, are kidney damage and metabolic acidosis. The combination of metabolic acidosis, an osmol gap and oxalate crystals in the urine is evidence of ethylene glycol poisoning. Pulmonary edema with hypoxemia has been described in a number of patients following poisoning with ethylene glycol. Respiratory support with mechanical ventilation may be required. There may be cranial nerve involvement in the late stages of toxicity from swallowed ethylene glycol. In particular, effects have been reported involving the seventh, eighth, and ninth cranial nerves, presenting with bilateral facial paralysis, diminished hearing and dysphagia.

Ethanol is antidotal and its early administration may block the formation of nephrotoxic metabolites of ethylene glycol in the liver. The objective is to rapidly achieve and maintain a blood ethanol level of approximately 100 mg/dl by giving a loading dose of ethanol followed by a maintenance dose. Intravenous administration of ethanol is the preferred route. Ethanol blood levels should be checked frequently. Hemodialysis may be required, 4-Methyl pyrazole (Fomepizole®), a potent inhibitor of alcohol dehydrogenase, has been used therapeutically to decrease the metabolic consequences of ethylene glycol poisoning.

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Fomepizole® is easier to use clinically than ethanol, does not cause CNS depression or hypoglycemia and requires less monitoring than ethanol. Additional therapeutic modalities which may decrease the adverse consequences of ethylene glycol metabolism are the administration of both thiamine and pyridoxine. As there are complicated and serious overdoses, we recommend you consult with the toxicologists at your poison control center.

## 5. Firefighting Measures

SUITABLE EXTINGUISHING MEDIA: For large fires, use alcohol type or all-purpose foams. For small fires, use water spray, carbon dioxide or dry chemical.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: A solid stream of water or foam directed into hot, burning liquid can cause frothing. Burning may produce carbon monoxide and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Do not spray pool fires directly. Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

#### 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear appropriate protective clothing and equipment (See Section 8).

METHODS AND MATERIALS FOR CONTAINMENT/CLEANUP: Collect with absorbent material and place in appropriate, labeled container for disposal or, if permitted flush spill area with water.

## 7. Handling and Storage

#### PRECAUTIONS FOR SAFE HANDLING:

Harmful or Fatal if Swallowed. Do not drink antifreeze or solution. Avoid eye and prolonged or repeated skin contact. Avoid breathing vapors or mists. Wash exposed skin thoroughly with soap and water after use. Do not store in opened or unlabeled containers. Keep container away from open flames and excessive heat. Do not reuse empty containers unless properly cleaned. Empty containers retain product residue and may be dangerous. Do not cut, weld, drill, etc. containers, even empty.

Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without any obvious ignition sources. Published "autoignition" or "ignition" temperatures cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Use of this product in elevated temperature applications should be thoroughly evaluated to assure safe operating conditions.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store away from excessive heat and oxidizers.

NFPA CLASSIFICATION: IIIB (May qualify for the following consumer quantity exemption: Consumer products that contain not more than 50 percent by volume of water-miscible flammable or combustible liquids, with the remainder of the product consisting of components that do not burn and where packaged in individual containers that do not exceed 1.3 gal (5 L) capacity.)

#### 8. Exposure Controls / Personal Protection

## **EXPOSURE GUIDELINES**

	· · · · · · · · · · · · · · · · · · ·
CHEMICAL	EXPOSURE LIMIT



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ļ	Ethylene Glycol (as acrosol)	100 mg/m³ Ceiling ACGIH TLV
	Diethylene Glycol	10 mg/m <sup>3</sup> TWA AIHA WEELs
	2-Ethyl Hexanoic Acid	None Established

APPROPRIATE ENGINEERING CONTROLS: Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: For operations where the TLV is exceeded a NIOSH approved respirator with organic vapor cartridges and dust/mist prefilters or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: Chemical resistant gloves such as neoprene or PVC where contact is possible.

EYE PROTECTION: Splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact.

## 9. Physical and Chemical Properties

APPEARANCE:	Orange liquid	ODOR:	Characteristic odor
ODOR THRESHOLD:	None	pH:	9.0
MELTING/FREEZING	-34°F (-36°C)	BOILING POINT/RANGE:	229°F (109°C)
POINT:			
FLASH POINT:	>220°F (104°C)	EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID,	Not Applicable	FLAMMABILITY LIMITS:	LEL: Not determined
GAS)			UEL: Not determined
VAPOR PRESSURE:	< 0.1 mmHg @ 68°F	VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	1.07	SOLUBILITIES	Water: 100%
PARTITION COEFFICIENT	Not determined	AUTOIGNITION	Not determined
(n-octanol/water)		TEMPERATURE:	
DECOMPOSITION	Not determined	VISCOSITY:	Not determined
TEMPERATURE:			

## 10. Stability and Reactivity

REACTIVITY: Normally unreactive

CHEMICAL STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: Reaction with strong oxidizers will generate heat.

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Avoid strong bases at high temperatures, strong acids, strong oxidizing agents, and materials reactive with hydroxyl compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

## 11. Toxicological Information



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## POTENTIAL HEALTH EFFECTS:

#### ACUTE HAZARDS:

INHALATION: May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations caused, for example, by heating the material in an enclosed and poorly ventilated workplace, may produce nausea, vomiting, headache, dizziness and irregular eye movements.

SKIN CONTACT: No evidence of adverse effects from available information.

EYE CONTACT: Liquid, vapors or mist may cause discomfort in the eye with persistent conjunctivitis, seen as slight excess redness or conjunctiva. Serious corneal injury is not anticipated.

INGESTION: May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision. irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary edema may develop. Severe kidney damage which may be fatal may follow the swallowing of ethylene glycol. A few reports have been published describing the development of weakness of the facial muscles, diminishing hearing, and difficulty with swallowing, during the late stages of severe poisoning.

CHRONIC EFFECTS: Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, particularly dizziness and jerking eye movements. Prolonged or repeated skin contact may cause skin sensitization and an associated dermatitis in some individuals. Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this finding to humans has not been determined. 2-Ethyl Hexanoic Acid, Sodium Salt is suspected of causing developmental effects based on animal data.

CARCINOGENICITY LISTING: None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

#### **ACUTE TOXICITY VALUES:**

Ethylene Glycol:

LD50 Oral Rat: 4700 mg/kg

LD50 Skin Rabbit: 9530 mg/kg

Diethylene Glycol:

LD50 Oral Rat: 12,565 mg/kg LD50 Skin Rabbit: 11,890 mg/kg

## SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH:

Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentrations or doses. Also, in a preliminary study to assess the effects of exposure of pregnant rats and mice to aerosols at concentrations 150, 1,000 and 2,500 mg/m3 for 6 hours a day throughout the period of organogenesis, teratogenic effects were produced at the highest concentrations, but only in mice. The conditions of these latter experiments did not allow a conclusion as to whether the developmental toxicity was mediated by inhalation of aerosol, percutaneous absorption of ethylene glycol from contaminated skin, or swallowing of ethylene glycol as a result of grooming the wetted coat. In a further study, comparing effects from high aerosol concentration by whole-body or nose-only exposure, it was shown that nose-only exposure resulted in maternal toxicity (1,000 and 2,500 mg/m3) and developmental toxicity in with minimal evidence of teratogenicity (2,500 mg/m3). The no-effects concentration (based on maternal toxicity) was 500 mg/m3. In a further study in mice, no teratogenic effects could be produced when ethylene glycol was applied to the skin of pregnant mice over the period of organogenesis. The above observations suggest that ethylene glycol is to be regarded as an animal teratogen; there is currently no available information to suggest that ethylene glycol caused birth defects in humans. Cutaneous application of ethylene glycol is ineffective in producing developmental toxicity; exposure to high aerosol concentration is only minimally effective in producing developmental toxicity; the major route for producing developmental toxicity is perorally.

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Two chronic feeding studies, using rats and mice, have not produced any evidence that ethylene glycol causes dose-related increases in tumor incidence or a different pattern of tumors compared with untreated controls. The absence of carcinogenic potential for ethylene glycol has been supported by numerous invitro genotoxicity studies showing that it does not produce mutagenic or clastogenic effects.

In a study of Wistar rats, adverse developmental results were reported at a dose of 100 mg / kg of body weight for 2-Ethyl Hexanoic Acid, Sodium Salt.

This product contains less than 0.2% tolytriazole which has demonstrated mutagenic activity in a bacterial test system. A correlation has been established between mutagenic activity and carcinogenic activity for many chemicals. Tolytriazole has not been identified as a carcinogen or probable carcinogen by NTP, IARC, ACGIH, or OSHA.

## 12. Ecological Information

#### ECOTOXICITY:

Ethylene Glycol: LC50 Fathead Minnow <10,000 mg/L/96 hr.

EC50 Daphnia Magna 100,000 mg/L/48 hr Bacterial (Pseudomonas putida): 10,000 mg/l

Protozoa (Entosiphon sulcatum and Uronema parduczi; Chatton-Lwoff): >10,000 mg/l

Algae (Microcystis aeruginosa): 2,000 mg/l

Green algae (Scenedesmus quandricauda): >10,000 mg/l

Diethylene Glycol: LC50 western mosquitofish >32,000 mg/L/96 hr

#### PERSISTENCE AND DEGRADABILITY:

Ethylene Glycol is readily biodegradable (97-100% in 2-12 days). Diethylene glycol is readily biodegradable (>70% in 19days).

## BIOACCUMULATIVE POTENTIAL:

Ethylene glycol: A BCF of 10, reported for ethylene glycol in fish. Golden ide (Leuciscus idus melanotus), after 3 days of exposure suggests the potential for bio concentration in aquatic organisms is low.

Diethylene glycol: An estimated BCF of 3 suggests the potential for bio concentration in aquatic organisms is low. MOBILITY IN SOIL: Ethylene glycol and diethylene glycol are highly mobile in soil.

OTHER ADVERSE EFFECTS: None known

## 13. Disposal Considerations

Dispose of product in accordance with all local, state/provincial and federal regulations.

## 14. Transport Information

U.S. DOT HAZARD CLASSIFICATION: Not regulated (unless package contains a reportable quantity)

Note: IF A SHIPMENT OF A REPORTABLE QUANTITY (9,090 LBS/1,018 GAL.) IN A SINGLE PACKAGE IS INVOLVED, THE FOLLOWING INFORMATION APPLIES:

PROPER SHIPPING NAME: RQ, Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

UN NUMBER: UN3082 PACKING GROUP: III LABELS REQUIRED: Class 9





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DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG CODE SHIPPING CLASSIFICATION: Not Regulated

CANADIAN TDG CLASSIFICATION: Not Regulated

#### 15. Regulatory Information

CERCLA SECTION 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Ethylene Glycol (55% maximum) of 5,000 lbs., is 9,090 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol

107-21-1

45-55%

PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CALIFORNIA PROPOSITION 65: The normal consumer use of this product does not result in exposures to chemicals known to the State of California to cause Cancer and/or Reproductive Harm above the significant risk level for carcinogens or the maximum allowable dose levels for reproductive toxins. Therefore, no warnings are required for consumer packages. Industrial or other occupational use of this product at higher frequency and using larger quantities of this product may result in exposures exceeding these levels and are labeled accordingly.

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CANADIAN WHMIS CLASSIFICATION: Class D - Division 2 - Subdivision A - (A very toxic material causing other toxic effects)



#### CANADIAN WHMIS HAZARD SYMBOLS:

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS): All of the ingredients are listed on the EINECS inventory.

AUSTRALIA: All of the components of this material are on the Australian Inventory of Chemical Substances (AICS).

JAPAN: All of the components of this material are listed on the Japanese Existing and New Chemical Substances (METI) List.

CHINA: All of the ingredients of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC)

KOREA: All of the components of this material are listed on the Korean Existing Chemicals List (KECL).

PHILIPPINES: All of the components of this material are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).





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NEW ZEALAND: All of the components of this material are listed on the New Zealand Inventory of Chemicals, (NZIoC)

## 16. Other Information

NFPA RATING - FIRE: I

HEALTH: 2

INSTABILITY: 0

REVISION SUMMARY: All Sections - conversion to Hazcom 2012 classification and labeling and format.

SDS Date of Preparation/Revision: September 20, 2013

This SDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

While Prestone Products Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Prestone Products Corporation assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

If more information is needed, please contact:

Prestone Products Corporation 69 Eagle Road Danbury CT 06810 (800) 890-2075



**PRIM 92306** 

## PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

## **SECTION 1: IDENTIFICATION**

PRODUCT IDENTIFIER

Product name Power Blast Windshield Wash +20°F

Product number #PRIM 92306 (Gallon)

Brand Prime Guard

Recommended use of the chemical and restrictions on use Recommended Use Windshield Wiper Fluid

**SUPPLIER'S DETAILS** 

Name Highline Aftermarket Address 4500 Malone Road

Memphis TN 38118

Telephone 901-775-5555

email sds@highlineaftermarket.com

Emergency Phone Number(s) CHEM-TEL (800) 255-3924

24 Hour Assistance

## **SECTION 2: HAZARD IDENTIFICATION**

## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
, , ,	Category 4
Specific target organ toxicity (single exposure)	Category 1
Flammable liquids	Category 3

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## GHS label elements, including precautionary statements

Signal word

Danger

**Pictogram** 







1. Flame

1.Exclamation Mark 2. Health Hazard

Appearance Physical State Odor Blue Liquid Mild Alcohol

## Hazard statement(s)

Harmful if swallowed
Harmful if contact with skin
Harmful if inhaled
Causes damage to organs
Flammable liquid and vapor

## Precautionary statement(s)

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

Do not breathe dustrume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

## **Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for



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breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable

## OTHER INFORMATION

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

## INTERACTIONS WITH OTHER CHEMICALS

Use of alcoholic beverages may enhance toxic effects.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Methyl alcohol	67-56-1	8-12	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

## **SECTION 4: FIRST-AID MEASURES**

## DESCRIPTION OF NECESSARY FIRST-AID MEASURES

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. If

symptoms persist, call a physician.

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Skin Contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air. If breathing is difficult, (trained personnel should) give

oxygen. If not breathing, give artificial respiration. Avoid direct contact with

skin. Use barrier to give mouth-mouth resuscitation.

Ingestion Do NOT induce vomiting. Rinse mouth immediately and drink plenty of

water. Never give anything by mouth to an unconscious person. Call a

physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take

precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

## MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

**Most Important Symptoms and Effects** 

Coughing and/ or wheezing. Difficulty in breathing.

# INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

**Notes to Physician** 

Ethanol may inhibit methanol metabolism.

## **SECTION 5: FIRE-FIGHTING MEASURES**

## SUITABLE EXTINGUISHING MEDIA

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

## **UNSUITABLE EXTINGUISHING MEDIA**

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

## SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code Toxic: Liquid

Combustible Liquid: II

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## HAZARDOUS COMBUSTION PRODUCTS

Carbon oxides.

**EXPLOSION DATA** 

Sensitivity to Mechanical Impact No.

Sensitivity To Static Discharge Yes.

## PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe vapor or mist.

## Other Information

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## **ENVIRONMENTAL PRECAUTIONS**

Prevent entry into waterways, sewers, basements or confined areas.

## METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment: Stop leak if you can do it without risk. A vapor suppressing foam may be used to

reduce vapors. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

Methods for cleaning up: Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid

spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to

properly labeled containers.

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## **SECTION 7: HANDLING AND STORAGE**

## PRECAUTIONS FOR SAFE HANDLING

Use personal protection equipment. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment.

## CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage

Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from moisture. Store away from other materials. Do not store near combustible materials.

Incompatible Products: None known based on information supplied

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## CONTROL PARAMETERS

## **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	STEL = 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm
) al	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>
		(vacated) TWA: 260 mg/m <sup>3</sup>	STEL: 325 mg/m <sup>3</sup>
		(vacated) STEL: 250 ppm	STEL: 250 ppm
		(vacated) STEL: 325 mg/m <sup>3</sup>	
		(vacated) S*	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v.

OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure

control parameters

## APPROPRIATE ENGINEERING CONTROLS

Engineering Measures Showers

Eyewash stations Ventilation systems

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## INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection** Tight sealing safety goggles. If splashes are likely to occur. Face protection

shield.

**Skin and Body Protection** Impervious gloves. Impervious clothing. Chemical resistant apron. Antistatic

boots.

**Respiratory Protection**No protective equipment is needed under normal use conditions. If

exposure limits are exceeded or irritation is experienced, ventilation and

evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do

not eat, drink or smoke when using this product. Keep away from food, drink, and animal feeding stuffs. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of

equipment, work area, and clothing is recommended.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance/form (physical state, color, etc.)

Liquid

Odor

Mild Alcohol

Odor threshold No information available.

Color Blue

#### **PROPERTY**

pH 7

Melting point/freezing point

No data available.

Initial boiling point and boiling range

No data available.

96 °C / 205 °F

Flash point 54 °C / 129 °F
Evaporation rate No data available.
Flammability (solid, gas) No data available.
Upper/lower flammability limits No data available.

Upper/lower explosive limits

Vapor pressure

Vapor density

Specific Gravity

Water Solubility

No data available.

No data available.

No data available.

Miscible in water

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Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available Autoignition temperature No data available Decomposition temperature No data available Kinematic viscosity No data available Dynamic viscosity No data available Explosive properties No data available Oxidizing Properties No data available

## OTHER INFORMATION

Softening Point
VOC Content (%)
Particle Size
Particle Size Distribution
No data available
No data available
No data available

## **SECTION 10: STABILITY AND REACTIVITY**

## REACTIVITY

No data available.

## CHEMICAL STABILITY

Stable under recommended storage conditions.

## POSSIBILITY OF HAZARDOUS REACTIONS

None under normal processing.

## HAZARDOUS POLYMERIZATION

Hazardous polymerization does not occur.

## **CONDITIONS TO AVOID**

Excessive heat. Heat, flames and sparks.

## **INCOMPATIBLE MATERIALS**

None known based on information supplied.

## HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides.





## **SECTION 11: TOXICOLOGICAL INFORMATION**

PRODUCT INFORMATION

**Inhalation** Specific test data for the substance or mixture is not available. Harmful by

inhalation. (Based on components)

**Eye Contact** Specific test data for the substance or mixture is not available.

**Skin Contact** Specific test data for the substance or mixture is not available. May be

absorbed through the skin in harmful amounts. Harmful in contact with skin.

(Based on components).

Ingestion Specific test data for the substance or mixture is not available. Harmful if

swallowed. (Based on components).

## COMPONENT INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl alcohol 67-56-1	= 5628 mg/kg ( Rat )	-	= 83.2 mg/L ( Rat ) 4 h

## INFORMATION ON TOXICOLOGICAL EFFECTS

**Symptoms** Coughing and/ or wheezing. May cause blindness.

# DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

**Sensitization** No information available.

Mutagenic Effects No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.

STOT - single exposure Based on classification criteria from the 2012 OSHA Hazard Communication

Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for

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PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

this product, but is based solely on toxicology studies for ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if swallowed. Causes damage to organs in contact with skin. Causes damage to organs if inhaled.

STOT – repeated exposure No information available.

**Chronic Toxicity** Effects from this product caused by acute exposure may cause permanent

damage to target organs and/or may cause chronic conditions. Inhalation,

ingestion, or skin absorption of methanol can cause blindness.

Target Organ Effects Respiratory system. Central Nervous System (CNS). Eyes. Gastrointestinal

tract (GI). Skin. Systemic Toxicity.

**Aspiration Hazard** No information available.

## NUMERICAL MEASURES OF TOXICITY PRODUCT INFORMATION

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 370.00 mg/kg

ATEmix (dermal) 1,111.00 mg/kg (ATE)

ATEmix (inhalation-dust/mist) 1.86 mg/l

## **SECTION 12: ECOLOGICAL INFORMATION**

## **ECOTOXICITY**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol		96h LC50: = 28200 mg/L	EC50 = 39000 mg/L	
67-56-1		(Pimephales promelas) 96h	25 min	
		LC50: > 100 mg/L	EC50 = 40000 mg/L	
		(Pimephales promelas) 96h	15 min	
		LC50: 19500 - 20700 mg/L	EC50 = 43000 mg/L	
		(Oncorhynchus mykiss) 96h	5 min	
		LC50: 18 - 20 mL/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 13500 - 17600 mg/L		
		(Lepomis macrochirus)		

PRIM92306

PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

## PERSISTENCE AND DEGRADABILITY

No information available.

## **BIOACCUMULATIVE POTENTIAL**

Chemical Name	Log Pow
Methyl alcohol 67-56-1	-0.77

## OTHER ADVERSE EFFECTS

No information available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

## **DISPOSAL OF THE PRODUCT**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

## DISPOSAL OF CONTAMINATED PACKAGING

Dispose of contents/containers in accordance with local regulations

US EPA Waste Number D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol		Included in waste stream:		U154
67-56-1		F039		

## California Hazardous Waste Code 133

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic
67-56-1	Ignitable

## **SECTION 14: TRANSPORT INFORMATION**

DOT (US)
Proper Shipping Name
Hazard Class
Description

WINDSHIELD WASHER FLUID NOT REGULATED COMBUSTIBLE LIQUID, AQUEOUS ALCOHOL SOLUTION





PRIM92306
PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

Emergency Response Guide 131

Number

**TDG** 

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary Class 6.1
Packing Group II

Description UN1230, METHANOL, 3 (6.1), II

**MEX** 

UN-No. UN1230
Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary Class 6.1
Packing Group II

Description UN1230, METHANOL, 3 (6/1), II

**ICAO** 

UN-No. UN1230
Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary Class 6.1
Packing Group II

Description UN1230, METHANOL, 3 (6/1), II

IATA

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary Class 6.1
Packing Group II

**Description** UN1230, METHANOL, 3 (6/1), II

IMDG/IMO

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Subsidiary Class 6.1
Packing Group II

EmS-No. F-E, S-D

**Description** UN1230, METHANOL, 3 (6.1), II (43 °C C.C.)

RID

UN-No. UN12130 Proper Shipping Name METHANOL

Hazard Class 3



PRIM92306



PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

Packing Group II Classification code FT1

Description UN1230, METHANOL, 3 (6/1), II

ADR/RID- Labels 6.1

**ADR** 

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Packing Group II
Classification code FT1
Tunnel Restriction code (D/E)

**Description** UN1230, METHANOL, 3 (6/1), II

ADR/RID- Labels 6.1

**ADN** 

UN-No. UN1230 Proper Shipping Name METHANOL

Hazard Class 3
Packing Group II
Classification code FT1
Special Provisions 279, 802

Description UN1230, METHANOL, 3 (6.1), II

Hazard Labels 6.1 Limited Quantity 1 L

Ventilation VE01, VE02

## **SECTION 15: REGULATORY INFORMATION**

## INTERNATIONAL INVENTORIES

TSCA Complies

**DSL** All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **US FEDERAL REGULATIONS**

PRIM92306

PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight - %	SARA 313 – Threshold Values %
Methyl alcohol - 67-56-1	67-56-1	6 - 12	1.0

## SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

## **CWA (CLEAN WATER ACT)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol 67-56-1	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

# US STATE REGULATIONS US STATE RIGHT-TO-KNOW REGULATIONS

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Proposition 65
Methyl alcohol - 67-56-1	Developmental

## INTERNATIONAL REGULATIONS

#### Mexico

National occupational exposure limits





Methyl alcohol 67-56-1 (10-30) PRIM92306
PRIME GUARD POWER BLAST WINDSHIELD WASH +20°F

Component	Carcinogen Status	Exposure Limits	

Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m³ Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m³

Mexico - Occupational Exposure Limits - Carcinogens

Canada
WHMIS Hazard Class
B3 - Combustible liquid
D2B - Toxic



## **SECTION 16: OTHER INFORMATION**

NFPA Health Hazards 3 Flammability 2 Instability 0 Physical and Chemical HMIS Health Hazards 3 Flammability 2 Physical Hazard 0 Personal Protection X

Prepared By: Randy Boitz

#### FURTHER INFORMATION/DISCLAIMER

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Highline Aftermarket be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Highline Aftermarket has been advised of the possibility of such damages.

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24 Hour Emergency CHEMTREC Number: 800-424-9300

MSDS Number: 123176

EPA Establishment Number: NA

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PRIME ZYME

Product Description: A formulated lift station maintainer.

EPA Registration Number: NA

2. HAZARDS IDENTIFICATION

\*\*\*EMERGENCY OVERVIEW\*\*\*

FIFRA Hazard Classification:

Not Applicable

Skin corrosion/irritation: Category 3 Serious eye damage/eye irritation: Category 2B Acute toxicity; oral: Category 4



Exclamation Mark

WARNING

Hazard Statements:

H316 Causes mild skin irritation. H320 Causes eye irritation. H302 Harmful if swallowed.

**Precautionary Statements:** 

P270 Do not eat, drink or smoke when using this product. P264 Wash hands thoroughly after handling.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight	ACGIH	<u>OSHA</u>
Stabilized Cultures	Stabilized Cultures	<12%	NE	NE
	(Proprietary)			

Linear Alcohol Ethoxylate 68439-46-3 <2.0% NA NA

#### 4. FIRST AID MEASURES

P337+P313 If eye irritation persists: Get medical advice. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 IF SKIN irritation occurs: Get medical attention. P301+P312 IF SWALLOWED: call a POISON CENTER or physician if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### 5. FIRE FIGHTING MEASURES

Flashpoint(Method): None to boiling point

Lower Explosive Limit(LEL): NA Upper Explosive Limit(UEL): NA Autoignition Temperature: NA

Flammable Properties: None Expected

Extinguishing Media: Carbon Dioxide, dry chemical, foam.

Fire Fighting Instructions: Wear self-contained breathing apparatus and full protective clothing. Contains oil, water is not effective in fire fighting. Water may be used to coolclosed containers to prevent possible explosive when exposed to extreme heat.

#### 6. ACCIDENTAL RELEASE MEASURES

Ventilate area. Halt spill at source, dike and contain spill. Flush with plenty of water to drain. Dispose of in accordance with Federal, State and Local Regulations regarding waste disposal.

#### 7. HANDLING AND STORAGE

P402 Store in dry place. P405 Store locked up.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use general or local ventilation to keep exposure levels below exposure limits.

Personal Protective Equipment:

Respiratory: Normal room ventilation is adequate. Use a NIOSH/MHSA approved respirator if exposure limits are exceeded.

Eye: Wear approved safety glasses or goggles with unperforated eyeshields where splashing may occur.

Skin: For repeated or prolonged contact, wear chemically impervious gloves such as Nitrile.

Other: An emergency eyewash station or source of clean potable water should be available in case of accidental eye contact.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Slighty hazy Physical State: Liquid. Solubility in Water: 100% Boiling Point: NA Freezing Point: NA Melting Point: NA Odor: Mint pH: 7.25 +/- 0.5 Diluted pH: NA Specific Gravity: 1

Specific Gravity: 1.005 +/- 0.05

VOC Content: 0%

#### 10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur. Conditions to Avoid: Heating and freezing.

Incompatibility: Strong acids or bases may deactivate.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide

## 11. TOXICOLOGICAL INFORMATION

This product contains no ingredient at 0.1% or greater that is listed as a human carcinogen.

Hazardous IngredientsCAS NumberLD50LC50Stabilized CulturesStabilized Cultures (Proprietary)NENELinear Alcohol Ethoxylate68439-46-3>2,000 mg/kg (rat oral), 3,300 mg/kgNE

(rat dermal)

#### 12. ECOLOGICAL INFORMATION

The product is not expected to be hazardous to the environment.

#### 13. DISPOSAL CONSIDERATIONS

P501 Dispose of container in accordance with all Federal, State and Local Regulations regarding waste disposal.

#### 14. TRANSPORT INFORMATION

DOT Shipping Data: Not Regulated Canadian TDG: Not Regulated

For International Shipments by Air: Not Regulated For International Shipments by Vessel: Not Regulated

#### 15. REGULATORY INFORMATION

TSCA: All ingredients in this product are listed or exempt from listing on the TSCA Chemical Inventory.

CEPA: All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDSL.

Proposition 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or reproductive harm, at reportable levels under the statute.

SARA 313: This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372).

VOC: 0%

HMIS RATING: HEALTH = 1 FLAMMABILITY = 0 REACTIVITY = 0 PPE = B

WHMIS RATING: Class D, Division 2B

## 16. OTHER INFORMATION

NA = Not Available or Not Applicable

NE = Not Established

Read and follow all label directions and precautions before using the product. This product is intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF THE REACH OF CHILDREN. While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.

Prepared On: 11/09/2016 Replaces: 06/04/2012

# FICHE SIGNALÉTIQUE DE SÉCURITÉ

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#### 1. IDENTIFICATION DU PRODUIT CHIMIQUE ET DE LA SOCIÉTÉ

Nom du produit : PRIME ZYME

Description du produit : Un défenseur formulé de station d'ascenseur.

EPA Registration Number: NA

Numéro d'urgence CHEMTREC 24 h/24: 800-424-9300 Numéro de la fiche signalétique de produit : 123176 EPA Establishment Number: NA

## 2. IDENTIFICATION DES DANGERS

\*\*\*VUE GÉNÉRALE D'URGENCE\*\*\*



Point d'exclamation

#### AVERTISSEMENT

Mention de danger:

H316 Provoque une légère irritation de la peau. H320 Provoque une irritation des yeux/Lésions oculaires/irritation des yeux graves. H302 Nocif en cas d'ingestion.

Conseils de prudence:

P270 Ne pas manger, boire ou fumer en manipulant ce produit. P264 Se laver soigneusement la peau après manutention.

#### 3. COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

<u>Ingrédients dangereux</u>	Numéro CAS	<u>Poids</u>	ACGIH	OSHA
Cultures Stabilisées	Stabilized Cultures	<12%	NE	NE
Alcools éthoxylés	(Proprietary) 68439-46-3	<2.0%	NA	NA

#### 4. PREMIERS SOINS

P337+P313 Si l'irritation oculaire persiste: consulter un médecin. P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer. P332+P313 En cas d'irritation cutanée: consulter un médecin. P301+P312 EN CAS D'INGESTION : Appeler un CENTRE ANTIPOISON ou un médecin en cas de malaise. P301+P330+P331 EN CAS D'INGESTION: Rincer la bouche. NE PAS faire vomir.

#### 5. EN CAS D'INCENDIE

Point d'éclair : Aucun jusqu'au point d'ébullition.

Limite d'explosivité inférieure (LIE) : NA Limite d'explosivité supérieure (LSE) : NA

Température d'auto-inflammation: NA

Propriétés d'inflammabilité : aucune présumée

Moyens d'extinction : Dioxyde de carbone, poudre chimique, mousse extinctrice.

Lutte contre l'incendie : Porter un appareil respiratoire autonome et une tenue protectrice intégrale. Contient de l'huile, l'eau n'est pas un moyen d'extinction efficace. Utiliser de l'eau pour rafraîchir les récipients hermétiques exposés à une chaleur extrême pour écarter les risques d'explosion.

#### 6. ÉMISSIONS ACCIDENTELLES

Ventiler la zone. Interrompre le déversement à la source, l'endiguer et le contenir. Évacuer à grande eau. Éliminer conformément aux réglementations fédérale, provinciale et locale en vigueuren matière d'élimination des déchets

## 7. MANIPULATION ET CONSERVATION

P402 Stocker dans un endroit sec. P405 Entreposer dans un endroit verrouillé.

## 8. EXPOSITION/PROTECTION INDIVIDUELLE

Moyens techniques : Assurer une ventilation forcée adéquate pour maintenir l'exposition en deçà de la valeur limite d'exposition.

Équipement de protection individuelle :

Respiratoire: La ventilation normale est suffisante. Si les limites d'exposition sont dépassées, utiliser un appareil respiratoire agréé NIOSH/MSHA.

Oculaire : Porter des lunettes de protection homologuées munies d'écrans latéraux non perforés.

Cutanée : En cas de contact répété ou prolongé, porter des gants de protection chimique.

Autre: Un bassin oculaire d'urgence ou une source d'eau potable propre devrait être prêt à être utilisé en cas de contact oculaire accidentel.

## 9. PROPRIÉTÉS PHYSIQUES ET CH IMIQUES

Aspect: Légèrement brumeux Odeur: Menthe

Concentrer pH: 7.25 +/- 0.5 État de la matière : Liquide

Solubilité dans l'eau: 100%

Dilué pH: NA

Contenu de VOC: 0% Densité: NA

Point de congélation/fusion : NA / NA

#### 10. STABILITÉ ET RÉACTIVITÉ

Stabilité: Stable

Polymérisation dangereuse: Ne se produira pas.

Conditions à éviter : chaleur et gel.

Incompatibilité : les acides ou les bases fortes peuvent avoir un effet désactivant. Produits de décomposition dangereuse : Monoxyde de carbone, dioxyde de carbone.

## 11. INFORMATIONS TOXICOLOGIQUES

Ce produit ne contient aucun ingrédient déclaré cancérogène humain à des teneurs supérieures ou égales à 0,1 %.

 Ingrédients dangereux
 Numéro CAS
 LD50
 LC50

 Cultures Stabilisées
 Stabilized Cultures (Proprietary)
 NE
 NE

 Alcools éthoxylés
 68439-46-3
 >2,000 mg/kg (rat oral), 3,300 mg/kg
 NE

(rat dermal)

#### 12. INFORMATIONS ÉCOLOGIQUES

Le produit ne devrait pas être dangereuse pour l'environnement.

#### 13 DESTRUCTION

P501 Éliminer le contenant conformément à tous les règlements fédéraux, d'État et locales en matière d'élimination des déchets.

#### 14. TRANSPORT

INFORMATION DE TRANSPORT D.O.T.: non réglementé.

TMD AU CANADA: non réglementé.

Pour les expéditions internationales par Air : non réglementé. Pour les expéditions internationales par Vessel : non réglementé.

#### 15. INFORMATIONS RÉGLEMENTAIRES

TSCA: Tous les ingrédients contenus dans ce produit figurent ou sont exempts de figurer sur l'inventaire du TSCA.

CEPA: Tous les ingrédients contenus dans ce produit figurent ou sont exempts de figurer sur la LIS et la LES (Canada).

Proposition 65 : Ce produit ne contient aucune substance chimique reconnus dans l'État de Californie pour causer le cancer, des malformations congénitales ou d'autres problèmes de reproduction.

SARA 313 : Ne produit ne contient aucune substance chimique toxique devant être déclarée aux termes de la section 313 de la loi Emergency Planning and Community Right-To-Know Act de 1986 (40 CFR 372.65C).

CLASSIFICATION HMIS: SANTÉ = 1 INFLAMMABILITÉ = 0 RÉACTIVITÉ = 0 EPS = B

CLASSIFICATION SIMDUT: Classe D, Division 2B

#### 16. AUTRES INFORMATIONS

néant = Non disponible ou sans objet

n.e. = Non établi

Lire et suivre toutes les instructions et les précautions d'emploi figurant sur l'étiquette avant d'utiliser le produit. Ces produits sont réservés uniquement à l'usage industriel et par les collectivités. CES PRODUITS NE SONT PAS DESTINÉS À L'USAGE DOMESTIQUE OU À LA REVENTE. GARDER HORS DE LA PORTÉE DES ENFANTS. Bien qu'à notre avis les informations énoncées ci-dessus soient réelles et que le jugement exprimé soit celui d'experts qualifiés, elles ne doivent pas être considérées comme une garantie ou une déclaration pour lesquelles la société assume une responsabilité légale. Ces informations sont données uniquement pour examen, investigation et vérification. L'utilisation des ces informations doit être déterminée par l'utilisateur conformément à la réglementation et à la loi fédérales, d'État et régionales applicables.

INFORMATIONS SUR LA SANTÉ ET LA SÉCURITÉ: (216) 861-7114

Date de Préparation: 11/09/2016 Remplace : 06/04/2012

## PLANILLA DE DATOS DE SEGURIDAD

**State Industrial Products** 

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#### 1. PRODUCTO QUÍMICO Y DATOS DE LA COMPAÑÍA

Nombre del producto: PRIME ZYME

Descripción del producto: Un sostén formulado de la estación de la elevación. EPA Registration Number: NA

Núm. CHEMTREC las 24 horas: 800-424-9300 Número MSDS: 123176 EPA Establishment Number: NA

#### 2. ENUMERACIÓN DE PELIGROS

#### \*\*\*DESCRIPCIÓN GENERAL DE LAS SITUACIONES DE EMERGENCIA\*\*\*



Signo de exclamación

#### ADVERTENCIA

H316 Causa leve corrosión/irritación en la piel. H320 Causa irritacion en los ojos/Serio daño en los ojos/irritación en los ojos. H302 Nocivo en caso de ingestión.

P270 No comer, beber ni fumar durante su utilización. P264 Lavar la piel meticulosamente después de la manipulación.

#### 3. COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

Componentes peligrosos	Número CAS	<u>Peso</u>	<u>ACGIH</u>	<u>OSHA</u>
Culturas Estabilizadas	Stabilized Cultures	<12%	NE	NE
	(Proprietary)			
Alcoholes etoxilados	68439-46-3	<2.0%	NA	NA

#### 4. MEDIDAS DE PRIMEROS AUXILIOS

P337+P313 Si persiste la irritación ocular: Consultar a un médico. P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. P332+P313 En caso de irritación cutánea: Consultar a un médico. P301+P312 EN CASO DE INGESTIÓN: llamar a un CENTRO DE TOXICOLOGÍA o médico SI se siente indispuesto. P301+P330+P331 EN CASO DE INGESTIÓN: Limpie la boca. NO provoque el vómito.

#### 5. MEDIDAS PARA COMBATIR INCENDIOS

Pto. inflamabilidad: Ninguno para el punto de ebullición

Límite explosivo inferior (LEL): NA Límite explosivo superior (UEL): NA Temperatura de autoignición: NA

Inflamabilidad: No se espera ninguna.

Medio extinguidor: Dióxido de carbono, productos químicos en polvo, espuma.

Instrucciones para combatir el fuego: Use un aparato autónomo para respirar e indumentaria de protección. Por contener aceite, el agua no resultará eficaz para combatir incendios. Puede usarse agua para enfriar los recipientes cerrados y evitar una posible explosión si éstos estuvieran expuestos a calor extremo.

## 6. MEDIDAS EN CASO DE DERRAME ACCIDENTAL

Ventile el área. Coloque una barrera física y contenga el derrame en el propio sitio de origen. Limpie el derrame con agua en abundancia y vierta todo por el drenaje. Obedezca todos los reglamentos federales, estatales y locales relativos a la disposición final de residuos.

#### 7. MANIPULACIÓN Y ALMACENAMIENTO

P402 Almacenar en un lugar seco. P405 Almacenar bajo llave.

## 8. CONTROL DE EXPOSICIÓN/PROTECCIÓN PERSONAL

Controles de ingeniería: Proveer suficiente ventilación mecánica para mantener la exposición por debajo del límite de concentración máxima (Threshold Limit Value, TLV).

Equipo de protección personal:

Respiratorio: Si el límite de exposición en el lugar de trabajo es excedido, se aconseja el uso de un respirador de aire ante la ausencia de control ambiental. Ojos: Use gafas protectoras o gafas con protección lateral sin perforaciones aprobadas.

Piel: Si el contacto fuera prolongado o repetido, use guantes resistentes a productos químicos.

Otros: Una estación de lavaojos de emergencia o una fuente de agua potable limpia debe estar disponible en caso de contacto accidental con los ojos.

## 9. PROPIEDADES FÍSICAS Y QUÍMICAS

Aspecto: Nebuloso ligeramente Estado de agregación: Líquido Solubilidad en agua: 100% Contenido de VOC: 0% Olor: Menta Concentrarse pH: 7.25 +/- 0.5 Diluido pH: NA Peso específico: 1.005 +/- 0.05 Punto de congelación/fusión: NA / NA

#### 10. ESTABILIDAD Y REACTIVIDAD

Estabilidad: Estable

Polimerización peligrosa: No ocurrirá.

Condiciones a evitar: Calentamiento y congelación.

Incompatibilidad: Los ácidos o bases fuertes podrían desactivar el producto.

Productos de descomposición peligrosos: Monóxido de carbono, Dióxido de carbono.

#### 11. INFORMACIÓN TOXICOLÓGICA

Este producto no contiene ningún componente en 0.1% o más del que se señale como un carcinógeno humano.

Componentes peligrososNúmero CASLD50LC50Culturas EstabilizadasStabilized Cultures (Proprietary)NENEAlcoholes etoxilados68439-46-3>2,000 mg/kg (rat oral), 3,300 mg/kgNE

(rat dermal)

#### 12. INFORMACIÓN ECOLÓGICA

El producto no se espera que sea peligroso para el medio ambiente.

#### 13. SUGERENCIAS PARA SU DISPOSICIÓN FINAL

P501 Elimine el recipiente en conformidad con todas las regulaciones federales, estatales y locales relacionadas con la eliminación de residuos.

#### 14. INFORMACIÓN SOBRE TRANSPORTE

DATOS DE EMBARQUE SEGÚN EL DOT (Ministerio de Transporte de los EE.UU.): No se ha regulado.

TDG CANADIENSE: Producto no regulado. No se ha regulado.

Para los envíos internacionales de Air: No se ha regulado.

Para los envíos internacionales de Vessel: No se ha regulado.

## 15. INFORMACIÓN SOBRE REGLAMENTOS

TSCA: Todos los químicos de este producto están catalogados o están exentos de ser catalogados en el inventario químico de la Ley de Control de Sustancias Tóxicas(Toxic Substances Control Act, TSCA).

CEPA: Todos los químicos de este producto están catalogados o están exentos de ser catalogados en el DSL/NDSL canadiense.

Propuesta 65: Este producto no contiene sustancias registradas en el Estado de California como causante de cáncer, defectos de nacimiento u otros daños reproductivos.

SARA 313: Este producto no contiene sustancias tóxicas sujetas a los requisitos de información del Artículo 313 de la ley de 1986 (40 CFR 372.65) de Planeamiento anteemergencias y Derecho a Estar Informado de la Comunidad.

CLASIFICACIÓN HMIS: SALUD = 1 INFLAMABILIDAD = 0 REACTIVIDAD = 0 EQUIPO DE PROTECCIÓN PERSONAL = B

CLASIFICACIÓN WHMIS: Clase D, División 2B

## 16. OTRA INFORMACIÓN

NA = No disponible o No se aplica

NE = No se ha establecido

Antes de utilizar este producto, lea y obedezca todas las instrucciones y precauciones. Este producto fue formulado para utilizarse únicamente en el ámbito industrial e institucional. NO ES PARA REVENTA NI PARA USO EN EL ÁMBITO HOGAREÑO. MANTENGA FUERA DEL ALCANCE DE LOS NIÑOS. Si bien se considera que los datos contenidos en esta planilla son correctos y las opiniones expresadas son las de calificados expertos, los datos no deberán considerarse como garantía ni como declaración por las que la compañía asume responsabilidad legal alguna. Estos datos se brindan sólo para evaluación, investigación y verificación por parte del cliente. El usuario es quien deberá determinar si cualquier uso que se dé a estos datos e información está de acuerdo con las leyes y reglamentos federales, estatales y locales aplicables.

INFORMACIÓN DE SEGURIDAD Y SALUD: (216) 861-7114

Preparado Encendido: 11/09/2016 Reemplaza: 06/04/2012

Material Name: Concentrated All-Purpose Cleaner

## \* \* \* Section 1 - Chemical Product and Company Identification \* \* \*

#### Manufacturer Information

Medallion Industries Inc. 5000 W Roosevelt Rd. Ste. 7 Chicago, IL 60644

Phone: 773-261-1197

Fax: 773-261-1320

## \* \* \* Section 2 - Hazards Identification \* \* \*

## **Emergency Overview**

May cause eye, skin and respiratory tract irritation. May cause gastrointestinal irritation if ingested.

Potential Health Effects: Eyes
May cause eye irritation.
Potential Health Effects: Skin
May cause skin irritation.

Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product use conditions. May cause gastrointestinal harm if

swallowed.

Potential Health Effects: Inhalation

May cause respiratory tract irritation.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

CAS#	Component	Percent
34590-94-8	Dipropylene glycol monomethyl ether	4.5
1300-72-7	Sodium xylene sulfonate	2.25
1310-73-2	Sodium hydroxide	2.25
6834-92-0	Sodium metasilicate	2.25

## \* \* \* Section 4 - First Aid Measures \* \* \*

## First Aid: Eyes

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention if irritation persists.

## First Aid: Skin

Immediately flush skin with plenty of water. Remove clothing. Get medical attention if irritation persists. Wash clothing separately before reuse. Remove and clean contaminated shoes.

## First Aid: Ingestion

If swallowed, do NOT induce vomiting. Drink a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

#### First Aid: Inhalation

If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

## \* \* \* Section 5 - Fire Fighting Measures \* \* \*

## **General Fire Hazards**

See Section 9 for Flammability Properties.

None

## **Hazardous Combustion Products**

Not Determined

## **Extinguishing Media**

Use Carbon Dioxide, Dry Chemical, Foam, Water Fog

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

Material Name: Concentrated All-Purpose Cleaner

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

\* \* \* Section 6 - Accidental Release Measures \* \* \*

## **Containment Procedures**

Stop the flow of material, if this is without risk.

## Clean-Up Procedures

Mop spill area up and wash with water.

## **Evacuation Procedures**

None

## **Special Procedures**

None

## \* \* \* Section 7 - Handling and Storage \* \* \*

## **Handling Procedures**

Avoid contact with eyes, skin, and clothing.

## Storage Procedures

Keep container closed when not in use. Store containers in a cool, well ventilated place.

## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

## A: Component Exposure Limits

## Sodium hydroxide (1310-73-2)

ACGIH: 2 mg/m3 Ceiling OSHA: 2 mg/m3 Ceiling NIOSH: 2 mg/m3 Ceiling

## Dipropylene glycol monomethyl ether (34590-94-8)

ACGIH: 100 ppm TWA

150 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 100 ppm TWA; 600 mg/m3 TWA

150 ppm STEL; 900 mg/m3 STEL Prevent or reduce skin absorption 100 ppm TWA; 600 mg/m3 TWA 150 ppm STEL; 900 mg/m3 STEL

150 ppm STEL; 900 mg/m3 STEL Potential for dermal absorption

## **Engineering Controls**

Use with adequate ventilation.

# PERSONAL PROTECTIVE EQUIPMENT

NIOSH:

Personal Protective Equipment: Eyes/Face

Wear safety glasses or face shield if splashing is likely.

## Personal Protective Equipment: Skin

Use impervious gloves to minimize skin contact.

## Personal Protective Equipment: Respiratory

None needed.

## Personal Protective Equipment: General

None

## \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

## Material Name: Concentrated All-Purpose Cleaner

Appearance: Clear Odor: Characteristic

pH: Physical State: Liquid ND Vapor Pressure: Vapor Density: ND >1 **Boiling Point:** ND **Melting Point:** NA Solubility (H2O): Specific Gravity: Soluble 1.0580 **Evaporation Rate:** VOC: ND

Octanol/H2O Coeff.: ND Flash Point: NA Flash Point Method: ND Upper Flammability Limit ND

(UFL):

Lower Flammability Limit ND Burning Rate: ND

(LFL):

Auto Ignition: ND

# \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

## **Chemical Stability**

This is a stable material.

#### **Chemical Stability: Conditions to Avoid**

Avoid impact, friction, heat, sparks or flame. Minimize exposure to air.

#### Incompatibility

Prevent contact with strong oxidizing agents. Keep away from acids. Avoid prolonged contact with alkali sensitive metals.

#### **Hazardous Decomposition**

Toxic gases/fumes are given off during burning or thermal decomposition. During combustion oxides of carbon may be formed.

## Possibility of Hazardous Reactions

Will not occur.

## \* \* \* Section 11 - Toxicological Information \* \* \*

## **Acute Dose Effects**

#### A: General Product Information

No information available for the product.

## B: Component Analysis - LD50/LC50

Sodium xylene sulfonate (1300-72-7)

Oral LD50 Rat 7200 mg/kg

## Sodium hydroxide (1310-73-2)

Dermal LD50 Rabbit 1350 mg/kg

## Dipropylene glycol monomethyl ether (34590-94-8)

Oral LD50 Rat 5230 mg/kg; Dermal LD50 Rabbit 9500 mg/kg

## Sodium metasilicate (6834-92-0)

Oral LD50 Rat 600 mg/kg

## Carcinogenicity

## **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

## \* \* \* Section 12 - Ecological Information \* \* \*

#### **Ecotoxicity**

#### A: General Product Information

No information available for the product.

## **B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

Sodium hydroxide (1310-73-2)

Test & Species Conditions

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## Material Name: Concentrated All-Purpose Cleaner

96 Hr LC50 Oncorhynchus mykiss 45.4 mg/L [static]

Dipropylene glycol monomethyl ether (34590-94-8)

Test & Species Conditions

96 Hr LC50 Pimephales promelas >10000 mg/L [static]

48 Hr LC50 Daphnia magna 1919 mg/L

Sodium metasilicate (6834-92-0)

Test & Species Conditions

96 Hr LC50 Brachydanio rerio 210 mg/L [semi-

static]

96 Hr LC50 Brachydanio rerio 210 mg/L 96 Hr EC50 Daphnia magna 216 mg/L

## \* \* \* Section 13 - Disposal Considerations \* \* \*

## **US EPA Waste Number & Descriptions**

## **Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

## **Disposal Instructions**

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \* \* \* Section 14 - Transportation Information \* \* \*

## **US DOT Information**

Shipping Name: Not Regulated

## \* \* \* Section 15 - Regulatory Information \* \* \*

## **US Federal Regulations**

## **Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

## Sodium hydroxide (1310-73-2)

CERCLA: 1000 lb final RQ; 454 kg final RQ

## State Regulations

## Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Sodium hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes	Yes
Dipropylene glycol monomethyl ether	34590-94-8	Yes	Yes	Yes	Yes	Yes	Yes

## Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS#	Minimum Concentration
Sodium hydroxide	1310-73-2	1 %
Dipropylene glycol monomethyl ether	34590-94-8	1 %
Sodium metasilicate	6834-92-0	1 %

## **Additional Regulatory Information**

## Material Name: Concentrated All-Purpose Cleaner

## **Component Analysis - Inventory**

Component	CAS#	TSCA	CAN	EEC
Sodium xylene sulfonate	1300-72-7	Yes	DSL	EINECS
Sodium hydroxide	1310-73-2	Yes	DSL	EINECS
Dipropylene glycol monomethyl ether	34590-94-8	Yes	DSL	EINECS
Sodium metasilicate	6834-92-0	Yes	DSL	EINECS

## \* \* \* Section 16 - Other Information \* \* \*

## Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

## Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

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## B20W12651

## Section 1. Identification

Product name : PROMAR® 200 Zero VOC Interior Latex Eg-Shel

Extra White

Product code : B20W12651
Other means of : Not available.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : Manufactured by:

THE SHERWIN-WILLIAMS COMPANY

101 W. Prospect Avenue Cleveland, OH 44115

Emergency telephone number of the company

: US / Canada: (800) 424-9300

Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Product Information Telephone Number

: US / Canada: 1-800-474-3794

Mexico: Not Available

Regulatory Information Telephone Number

: US / Canada: (216) 566-2902

Mexico: Not Available

**Transportation Emergency** 

**Telephone Number** 

: US / Canada: (800) 424-9300

Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: CARCINOGENICITY - Category 2

GHS label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : Suspected of causing cancer.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Wear protective gloves. Wear eye or face protection.

Wear protective clothing.

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Extra White

SHW-85-NA-GHS-US

## Section 2. Hazards identification

**Response** : IF exposed or concerned: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

WARNING: This product contains chemicals known to the State of California to cause

cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Do not

transfer contents to other containers for storage.

Hazards not otherwise

classified

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Not available.

identification

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

# Most important symptoms/effects, acute and delayed Potential acute health effects

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## Section 4. First aid measures

: No known significant effects or critical hazards. **Eye contact** Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## See toxicological information (Section 11)

## Section 5. Fire-fighting measures

## Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: None known.

## Specific hazards arising from the chemical

**Hazardous thermal** 

decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials:

: Use an extinguishing agent suitable for the surrounding fire.

carbon dioxide carbon monoxide metal oxide/oxides

## Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Special protective

equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in

Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

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## Section 6. Accidental release measures

## **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

## Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

## Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

## **Control parameters**

## Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits
Titanium Dioxide	13463-67-7	ACGIH TLV (United States, 3/2019). TWA: 10 mg/m³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 15 mg/m³ 8 hours. Form: Total dust

## Occupational exposure limits (Canada)

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## Section 8. Exposure controls/personal protection

Ingredient name	CAS#	Exposure limits
Titanium dioxide	13463-67-7	CA British Columbia Provincial (Canada, 5/2019).  TWA: 3 mg/m³ 8 hours. Form: Respirable dust  TWA: 10 mg/m³ 8 hours. Form: Total dust  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 10 mg/m³ 8 hours. Form: Total dust.  CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 10 mg/m³ 8 hours.  CA Ontario Provincial (Canada, 1/2018).  TWA: 10 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 20 mg/m³ 15 minutes.  TWA: 10 mg/m³ 8 hours.

## Occupational exposure limits (Mexico)

	CAS#	Exposure limits
None.		

## Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

## **Skin protection**

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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## Section 8. Exposure controls/personal protection

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Color : White.

Odor : Not available. **Odor threshold** Not available.

pH : 9.6

Melting point/freezing point : Not available. Boiling point/boiling range : 100°C (212°F)

Flash point : Closed cup: Not applicable. **Evaporation rate** : 0.09 (butyl acetate = 1)

Flammability (solid, gas) : Not available. Lower and upper explosive

: Not available.

(flammable) limits

Vapor pressure

: 2.3 kPa (17.5 mm Hg) [at 20°C]

Vapor density : 1 [Air = 1] Relative density

Solubility : Not available. Partition coefficient: n-: Not available.

octanol/water

**Auto-ignition temperature** : Not available. Decomposition temperature : Not available.

**Viscosity** Kinematic (40°C (104°F)): >0.205 cm<sup>2</sup>/s (>20.5 cSt)

Molecular weight Not applicable.

Aerosol product

Heat of combustion : 0.736 kJ/g

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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Extra White

## **Section 11. Toxicological information**

## Information on toxicological effects

## **Acute toxicity**

Not available.

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug I	

## **Sensitization**

Not available.

## **Mutagenicity**

Not available.

## Carcinogenicity

Not available.

## Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	<del>-</del>	2B	-

## Reproductive toxicity

Not available.

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

## Information on the likely

routes of exposure

: Not available.

## Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

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## **Section 11. Toxicological information**

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

: Suspected of causing cancer. Risk of cancer depends on duration and level of Carcinogenicity

exposure.

Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Fertility effects** 

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

## Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours

## Persistence and degradability

Not available.

## **Bioaccumulative potential**

Not available.

**Mobility in soil** 

B20W12651

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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Extra White

## Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	_	-

Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

Proper shipping name : Not available. : Not available. Ship type **Pollution category** : Not available.

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## Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 5-Chloro-2-methylisothiazolinone

#### **SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### International regulations

International lists

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

## Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classificat	tion	Justification
CARCINOGENICITY - Category 2		Calculation method

## **History**

Date of printing : 5/13/2020 : 5/13/2020 Date of issue/Date of

revision

B20W12651

Date of previous issue : 11/28/2019

Version : 14

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

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PROMAR® 200 Zero VOC Interior Latex Eg-Shel Extra White

## Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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# Safety Data Sheet



CORPORATION

\* Trusted Quality Since 1921 \* www.rustoleum.com

## 1. Identification

Product Name:

PTOUCH +SSPR 6PK GLOSS CLEAR 11 OZ Revision Date:

8/29/2016

Product Identifier:

1901830

USA

Supercedes Date:

Manufacturer:

New SDS

Product Use/Class:

Topcoat/Aerosols

Supplier:

Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061

Rust-Oleum Corporation 11 Hawthorn Parkway

Vernon Hills, IL 60061

USA

Preparer:

Regulatory Department

**Emergency Telephone:** 

24 Hour Hotline: 847-367-7700

## 2. Hazard Identification

#### Classification

Symbol(s) of Product



## Signal Word Danger

#### Possible Hazards

53% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Compressed Gas H280 Contains gas under pressure; may explode if heated.

Compressed Gas H280 Contains gas under pressur Germ Cell Mutagenicity, category 1B H340 May cause genetic defects.

Carcinogenicity, category 1B H350 May cause cancer.

STOT, single exposure, category 3, NE H336 May cause drowsiness or dizziness.

STOT, repeated exposure, category 2 H373 May cause damage to organs through prolonged or repeated exposure.

Skin Irritation, category 2 H315 Causes skin irritation.

Eye Irritation, category 2 H319 Causes serious eye irritation.

## **GHS LABEL PRECAUTIONARY STATEMENTS**

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO

SMOKING.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P201 Obtain special instructions before use.

P281 Use personal protective equipment as required.
P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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P403+P233 Store in a well-ventilated place. Keep container tightty closed. P260 Do not breathe dust, fumes, gases, mists, vapors, or spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P362 Take off contaminated clothing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

## 3. Composition/Information On Ingredients

## HAZARDOUS SUBSTANCES

1723112000000000000000000000000000000000				
Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-319-332-336
Propane	74-98-6	10-25	GHS04	H280
Toluene	108-88-3	10-25	GHS02-GHS07- GHS08	H225-304-315-332-336-373
n-Butyl Acetate	123-86-4	2.5-10	GHS02-GHS07	H226-336
n-Butane	106-97-8	2.5-10	GHS04	H280
Solvent Naphtha, Light Aromatic	64742-95-6	1.0-2.5	GHS07-GHS08	H304-332-340-350
1,2,4-Trimethylbenzene	95-63-6	1.0-2.5	GHS02-GHS07- GHS08	H226-304-315-319-332-335
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	1.0-2.5	GHS08	H304

## 4. First-aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted. Keep containers tightly closed.

**SPECIAL FIREFIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

## Accidental Release Measures

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

## 8. Exposure Controls/Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	30.0	250 ppm	500 ppm	1000 ppm	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Toluene	108-88-3	20.0	20 ppm	N.E.	200 ppm	300 ppm
n-Butyl Acetate	123-86-4	10.0	50 ppm	150 ppm	150 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N,E.
1,2,4-Trimethylbenzene	95-63-6	5.0	N.E.	N.E.	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	5.0	N.E.	N.E.	N.E.	N.E.

## PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**RESPIRATORY PROTECTION**: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

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## 9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Relative Density:	0.747	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	N.O
Decompostion Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	<del>-</del> 37 - 375	Explosive Limits, vol%:	0.9 - 13.0
Flammability:	Supports Combustion	Flash Point, °C:	-104
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid contact with strong acid and strong bases.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

## 11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May be absorbed through the skin in harmful amounts. May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** High gas, vapor, mist or dust concentrations may be harmful if inhaled. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
<del>67-64</del> -1	Acetone	5800 mg/kg Rat	N.I.	50.1 mg/L Rat
74-98-6	Propane	N.I.	N.I.	658 mg/L Rat
108-88-3	Toluene	2600 mg/kg Rat	12000 mg/kg Rabbit	12.5 mg/L Rat
123-86-4	n-Butvl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
106-97-8	n-Butane	N.Ĭ.	N.I.	658 mg/L Rat
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
95-63-6	1,2,4-Trimethylbenzene	3280 mg/kg Rat	>3160 mg/kg Rabbit	18 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat

N.I. - No Information

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

## 13. Disposal Information

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**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

14. Transport Information						
	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)		
UN Number:	N.A.	1950	1950	N.A.		
Proper Shipping Name:	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities		
Hazard Class:	N.A.	2.1	2.1	N.A.		
Packing Group:	N.A.	N.A.	N.A.	N.A.		
Limited Quantity:	Yes	Yes	Yes	Yes		

## 15. Regulatory Information

## U.S. Federal Regulations:

## **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

 Chemical Name
 CAS-No.

 Toluene
 108-88-3

 1,2,4-Trimethylbenzene
 95-63-6

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

Personal Protection:

Х

No TSCA 12(b) components exist in this product.

## 16. Other Information

**HMIS RATINGS** 

Health: 3\* Flammability: 4 Physical Hazard: 0

**NFPA RATINGS** 

Health: 3 Flammability: 4 Instability 0

VOLATILE ORGANIC COMPOUNDS, g/L: 586

8/29/2016

REASON FOR REVISION:

SDS REVISION DATE:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Safety Data Sheet



\* Trusted Quality Since 1921 \*
www.rustoleum.com

## 1. Identification

**Product Name:** 

PTOUCH 2X +SSPR 6PK GLOSS HUNTER

Revision Date:

5/15/2015

Product Identifier:

GREEN 249111

Supercedes Date:

5/6/2015

Product Use/Class:

Topcoat/Aerosol

Supplier:

Rust-Oleum Corporation 11 Hawthorn Parkway

Vernon Hills, IL 60061

USA

Manufacturer:

Rust-Oleum Corporation
11 Hawthorn Parkway

Vernon Hills, IL 60061

USA

Preparer:

Regulatory Department

**Emergency Telephone:** 

24 Hour Hotline: 847-367-7700

## 2. Hazard Identification

**EMERGENCY OVERVIEW:** Harmful if swallowed. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Causes eye irritation. Use ventilation necessary to keep exposures below recommended exposure limits, if any. Vapor Harmful. Causes Eye, Skin, Nose, and Throat Irritation.

#### Classification

## Symbol(s) of Product







Signal Word

Danger

#### Possible Hazards

65% of the mixture consists of ingredient(s) of unknown acute toxicity

## **GHS HAZARD STATEMENTS**

	Extremely flammable aerosol.
224	Extremely flammable liquid and vapor.
303	May be harmful if swallowed.
313	May be harmful in contact with skin.
315	Causes skin irritation.
319	Causes serious eye irritation.
332	Harmful if inhaled.
335	May cause respiratory irritation.
336	May cause drowsiness or dizziness.
305	May be harmful if swallowed and enters airways.
320	Causes eye irritation.
280	Contains gas under pressure; may explode if heated.
333333333333333333333333333333333333333	03 13 15 19 32 35 36 05

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Germ Cell Mutagenicity, category 1B H340 May cause genetic defects. Classified as mutagenic Category 1 if one ingredient is present at or above 0.1%. Applies to liquids, solids (w/w units) and gases (v/v). The substance may also have its own exposure limit.

Routes of exposure are dependent on ingredient form.

May cause cancer. Classified as carcinogenic Category 1 on the basis of epidemiological and/or animal data. Mixtures are classified as carcinogenic when at least 1 ingredient has been classified as carcinogenic and is present at 0.1% or above. Routes of exposure are dependant on ingredient form.

# GHS LABEL PRECAUTIONARY STATEMENTS

SIAIEMENIS	
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P375	Fight fire remotely due to the risk of explosion.
P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P374	Fight fire with normal precautions from a reasonable distance.
P402	Store in a dry place.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P403+P235	Store in a well-ventilated place. Keep cool.
P362	Take off contaminated clothing and wash before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P350	Gently wash with plenty of soap and water.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

## 3. Composition/Information On Ingredients

## **HAZARDOUS SUBSTANCES**

<u>Chemical Name</u>	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-336-319
Propane	74-98-6	10-25		
n-Butane	106-97-8	2.5-10		
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	2.5-10	GHS08	H340-350
Solvent Naphtha, Light Aromatic	64742-95-6	2.5-10	GHS08	H340-350
Aliphatic Hydrocarbon	64742-89-8	2.5-10	GHS08	H340-350
1,2,4-Trimethylbenzene	95-63-6	2.5-10	GHS02-GHS07	H226-335-332-315-319
Xylene (mixed isomers)	1330-20-7	1.0-2.5	GHS02-GHS07	H226-312-332-315
Propylene Glycol Monobutyl Ether	5131-66-8	1.0-2.5	GHS02-GHS07	H226-302-315-319
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07	H225-332
Carbon Black	1333-86-4	0.1-1.0	GHS02	H251

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The text for GHS Hazard Statements shown above (if any) is given in the "16. Other Information" section.

## 4. First-aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-fighting Measures

**EXTINGUISHING MEDIA:** 

Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. Closed containers may explode when exposed to extreme heat due to buildup of steam. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Evacuate area and fight fire from a safe distance. Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

## 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

**STORAGE**: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

## 8. Exposure Controls/Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	30.0	500 ppm	750 ppm	1000 ppm	N.E.
Propane	74-98-6	20.0	1000 ppm	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	1000 ppm	1000 ppm	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10.0	200 mg/m3	N.Ë.	N.E.	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
Aliphatic Hydrocarbon	64742-89-8	5.0	350 ppm	N.E.	500 ppm	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 ppm (NIOSH REL)	N.E.	N.E.	N.E.
Xylene (mixed isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.

Propylene Glycol Monobutyl Ether	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	125 ppm	100 ppm	N.E.
Carbon Black	1333-86-4	1.0	3 mg/m3 (Inhalable Dust)	N.E.	3.5 mg/m3	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

## 9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Relative Density:	0.750	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-	N = 1=6=====+!===
Decompostion Temp., °C:	No Information	octanol/water:	No Information
Boiling Range, °C:	-11 - 999	Explosive Limits, vol%:	0.7 - 13.0
Flammability:	Does not Support Combustion	Flash Point, °C:	>94
Evaporation Rate:	Faster than Ether	Auto-ignition Temp., °C:	No Information
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid temperatures above 120 ° F. Avoid all possible sources of ignition. Avoid contact with strong acid and strong bases.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

## 11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

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Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
74-98-6	Propane	N.I.	N.I.	658 mg/L Rat
64742-49 <b>-</b> 0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	N.I.
64742-95-6	Solvent Naphtha, Light Aromatic	N.I.	>2000 mg/kg Rabbit	N.I.
64742-89-8	Aliphatic Hydrocarbon	N.I.	3000 mg/kg Rabbit	N.I.
95-63-6	1,2,4-Trimethylbenzene	3280 mg/kg Rat	>3160 mg/kg Rabbit	N.I.
1330-20-7	Xylene (mixed isomers)	4300 mg/kg Rat	N.I.	47635 mg/L Rat
5131-66-8	Propylene Glycol Monobutyl Ether	1900 mg/kg Rat	N.I.	N.I.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15354 mg/kg Rabbit	17.2 mg/L Rat

N.I. - No Information

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u> Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

## 15. Regulatory Information

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## U.S. Federal Regulations:

## **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	<u>CAS-No.</u>
1,2,4-Trimethylbenzene	95-63-6
Xylene (mixed isomers)	1330-20-7
Ethylbenzene	100-41-4

## **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

## **CALIFORNIA PROPOSITION 65:**

WARNING: This product contains a substance known to the State of California to cause cancer.

Chemical Name	CAS-No.
Ethylbenzene	100-41-4
Carbon Black	1333-86-4
Benzene	71-43-2
hexachlorobenzene	118-74-1

## CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

WARNING: This product contains a substance known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	CAS-No.
Benzene	71-43-2
Toluene	108-88-3
hexachlorobenzene	118-74-1

## International Regulations:

## **CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

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## 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Haz

Physical Hazard: 0 Personal Protection: X

CANADIAN WHMIS CLASS: AB5 D2A

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability 0

VOLATILE ORGANIC COMPOUNDS, g/L: 527

MSDS REVISION DATE: 5/15/2015

REASON FOR REVISION: No Information

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

## Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state>
H350	May cause cancer <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state>

## Icons for GHS Pictograms shown in Section 3 describing each ingredient:



The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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# Safety Data Sheet



www.rustoleum.com

## 1. Identification

PTOUCH 2X +SSPR 6PK GLOSS SUN **Product Name:** 

YELLOW

**Product Identifier:** 249092

Recommended Use: Topcoat/Aerosols

**Rust-Oleum Corporation** Supplier:

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Preparer: Regulatory Department

24 Hour Hotline: 847-367-7700 **Emergency Telephone:** 

# Trusted Quality Since 1921 \*

**Revision Date:** 2/21/2023

6/1/2022 Supercedes Date:

**Rust-Oleum Corporation** Manufacturer:

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

## 2. Hazards Identification

## Classification

Symbol(s) of Product





## Signal Word

Danger

## Possible Hazards

34% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### GHS HAZARD STATEMENTS

H350 Carcinogenicity, category 1B May cause cancer.

Eye Irritation, category 2A H319 Causes serious eye irritation. Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Gases under Pressure; Compressed Gas H280 Contains gas under pressure; may explode if heated.

Germ Cell Mutagenicity, category 1B H340 May cause genetic defects.

STOT, Single Exposure, category 3, NE H336 May cause drowsiness or dizziness.

## **GHS LABEL PRECAUTIONARY STATEMENTS**

Obtain special instructions before use. P201

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO

SMOKING.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

Painter's Touch 2X Sun Yellow Gloss Small Spray 6 Pack

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C (122°F).

P501 Dispose of contents/container in accordance with local, regional and national regulations.

## 3. Composition / Information on Ingredients

#### HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-319-332-336
Propane	74-98-6	10-25	GHS04	H280
n-Butane	106-97-8	2.5-10	GHS04	H280
Aliphatic Hydrocarbon	64742-89-8	2.5-10	GHS08	H304-340-350
n-Butyl Acetate	123-86-4	2.5-10	GHS02-GHS07	H226-336
Titanium Dioxide	13463-67-7	2.5-10	Not Available	Not Available
Solvent Naphtha, Light Aromatic	64742-95-6	1.0-2.5	GHS07-GHS08	H304-332
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.0-2.5	GHS02-GHS07	H226-315-319-332
1,2,4-Trimethylbenzene	95-63-6	1.0-2.5	GHS02-GHS07- GHS08	H226-304-315-319-332-335
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07- GHS08	H225-304-332-351-373
Zirconium Acetate	5153-24-2	<0.1	Not Available	Not Available

## 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

## Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only in a well-ventilated area. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing. STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store above 120°F (49°C). Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

## 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	35.0	250 ppm	500 ppm	1000 ppm	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Aliphatic Hydrocarbon	64742-89-8	10.0	N.E.	N.E.	N.E.	N.E.
n-Butyl Acetate	123-86-4	10.0	50 ppm	150 ppm	150 ppm	N.E.
Titanium Dioxide	13463-67-7	5.0	0.2 mg/m3	N.E.	15 mg/m3	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	20 ppm	N.E.	100 ppm	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	10 ppm	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Zirconium Acetate	5153-24-2	0.1	5 mg/m3	10 mg/m3	5 mg/m3	N.E.

## PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

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#### Engineering Measures for Combustible Dust: No Information

## 9. Physical and Chemical Properties

Physical State: Appearance: Aerosolized Mist Liquid Odor: Odor Threshold: Solvent Like N.E. Specific Gravity: pH: 0.763 N.A. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-octanol/ Slight N.D. water: Decomposition Temp., °C: N.D. Boiling Range, °C: Explosive Limits, vol%: -37 - 537 0.9 - 13.0Flammability: Flash Point, °C: Supports Combustion -96 **Evaporation Rate:** Faster than Ether Auto-Ignition Temp., °C: N.D. Vapor Density: Vapor Pressure: N.D. Heavier than Air

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

## 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
64742-89-8	Aliphatic Hydrocarbon	N.E.	3000 mg/kg Rabbit	N.E.
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	6000	N.E.
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
95-63-6	1,2,4-Trimethylbenzene	3280 mg/kg Rat	>3160 mg/kg Rabbit	18 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

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## N.E. - Not Established

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL:** Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a US EPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

## 15. Regulatory Information

## U.S. Federal Regulations:

## CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

#### SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

 Chemical Name
 CAS-No.

 Xylenes (o-, m-, p- Isomers)
 1330-20-7

 1,2,4-Trimethylbenzene
 95-63-6

 Ethylbenzene
 100-41-4

## **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

## U.S. State Regulations:

#### California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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## Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Health: 2 Flammability: 4 Instability: 0

Maximum Incremental Reactivity: 0.93

SDS REVISION DATE: 2/21/2023

**REASON FOR REVISION:** Substance and/or Product Properties Changed in

Section(s):

03 - Composition / Information on Ingredients 08 - Exposure Controls / Personal Protection

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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# Safety Data Sheet



Trusted Quality Since 1921 \* www.rustoleum.com

## 1. Identification

PTOUCH 2X +SSPR NAT 6PK SATIN APPLE Revision Date: **Product Name:** 8/16/2023

**Product Identifier:** 334094 Supercedes Date: 2/8/2022

Recommended Use: Topcoat/Aerosols

**Rust-Oleum Corporation Rust-Oleum Corporation** Manufacturer: Supplier: 11 Hawthorn Parkway

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

USA

Vernon Hills, IL 60061

Preparer: Regulatory Department

24 Hour Hotline: 847-367-7700 **Emergency Telephone:** 

## 2. Hazards Identification

## Classification

Symbol(s) of Product



## Signal Word

Danger

#### Possible Hazards

33% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### GHS HAZARD STATEMENTS

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, Single Exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.
Carcinogenicity, category 1B	H350	May cause cancer.
Reproductive Toxicity, category 1B	H360	May damage fertility or the unborn child.
CTOT Deposted Evensure sets service	L1272	May sausa damaga ta argana

H373 STOT, Repeated Exposure, category 2 May cause damage to organs.

Contains gas under pressure; may explode if heated. Gases under Pressure; Compressed Gas H280

## GHS LABEL PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 Wash thoroughly after handling. Date Printed: 8/16/2023 Page 2 / 7

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P317 Get medical help.

P319 Get medical help if you fell unwell.
P337+P317 If eye irritation persists: Get medical help.

## 3. Composition / Information on Ingredients

## **HAZARDOUS SUBSTANCES**

<u>Chemical Name</u>	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-319-332-336
Propane	74-98-6	10-25	GHS04	H280
n-Butane	106-97-8	2.5-10	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	2.5-10	GHS08	H304
Hydrous Magnesium Silicate	14807-96-6	2.5-10	Not Available	Not Available
Xylenes (o-, m-, p- Isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
n-Butyl Acetate	123-86-4	2.5-10	GHS02-GHS07	H226-336
Propylene Glycol Monobutyl Ether	5131-66-8	1.0-2.5	GHS07	H302-315-319
Pigment Red 170	2786-76-7	1.0-2.5	Not Available	Not Available
Hydrotreated Light Distillate	64742-47-8	1.0-2.5	GHS08	H304
Barium Sulfate	7727-43-7	1.0-2.5	GHS07	H332
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07- GHS08	H225-304-332-373
Solvent Naphtha, Light Aromatic	64742-95-6	0.1-1.0	GHS07-GHS08	H304-332-340-350
Titanium Dioxide	13463-67-7	0.1-1.0	Not Available	Not Available
Zirconium 2-Ethylhexanoate	22464-99-9	0.1-1.0	GHS07-GHS08	H315+H320-360
Zirconium Acetate	5153-24-2	<0.1	Not Available	Not Available

## 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed. Remove contact lenses, if present and easy to do. Continue rinsing.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

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**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively. Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Aqueous Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Water may be used to cool closed containers to prevent buildup of steam. Full protective equipment including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferred. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

## Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

## 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	35.0	250 ppm	500 ppm	1000 ppm	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10.0	N.E.	N.E.	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	20 mppcf	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	20 ppm	N.E.	100 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Propylene Glycol Monobutyl Ether	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.
Pigment Red 170	2786-76-7	5.0	N.E.	N.E.	N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.E.	N.E.	N.E.	N.E.
Barium Sulfate	7727-43-7	5.0	5 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	1.0	N.É.	N.E.	N.E.	N.E.
Titanium Dioxide	13463-67-7	1.0	0.2 mg/m3	N.E.	15 mg/m3	N.E.

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Zirconium 2-Ethylhexanoate	22464-99-9	1.0	5 mg/m3	10 mg/m3	5 mg/m3	N.E.
Zirconium Acetate	5153-24-2	0.1	5 mg/m3	10 mg/m3	5 mg/m3	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

## 9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.768	pH:	N.D.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	ND
Decomposition Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	-37 - 537	Explosive Limits, vol%:	0.9 - 13.0
Flammability:	Supports Combustion	Flash Point, °C:	-96
Evaporation Rate:	Faster than Ether	Auto-Ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid excess heat. Keep from freezing.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Irritating, and may injure eye tissue if not removed promptly. Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Low hazard for usual industrial handling or commercial handling by trained personnel.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Constituents of this product include crystalline silica dust which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

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EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	N.E.	30
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
5131-66-8	Propylene Glycol Monobutyl Ether	1900 mg/kg Rat	>2000 mg/kg Rat	N.E.
2786-76-7	Pigment Red 170	N.E.	>2000 mg/kg Rat	N.E.
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
7727-43-7	Barium Sulfate	307000 mg/kg Rat	N.E.	N.E.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	6000	N.E.

N.E. - Not Established

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. No ecotoxicity data was found for this product.

## 13. Disposal Information

**DISPOSAL:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not incinerate closed containers. This product as supplied is a US EPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

UN Number:	Domestic (USDOT)	International (IMDG)	<b>Air (IATA)</b>	TDG (Canada)
	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

## 15. Regulatory Information

## U.S. Federal Regulations:

## **CERCLA - SARA Hazard Category**

Date Printed: 8/16/2023 Page 6 / 7

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Reproductive toxicity, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

#### SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
Xylenes (o-, m-, p- Isomers)	1330-20-7
Barium Sulfate	7727-43-7
Ethylbenzene	100-41-4
Pigment Green 7	1328-53-6
Pigment Blue 15	147-14-8
Copper phthalocyaninesulfonic acid, dioctadecyldimethylammonium salt	70750-63-9

## **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

## U.S. State Regulations:

## California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

## 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Health: 2 Flammability: 4 Instability: 0

Maximum Incremental Reactivity: 0.89

SDS REVISION DATE: 8/16/2023

REASON FOR REVISION: Product Composition Changed

Substance Hazard Threshold % Changed

Substance and/or Product Properties Changed in

Section(s): 01 - Identification

02 - Hazard Identification

03 - Composition / Information on Ingredients

05 - Fire-Fighting Measures

08 - Exposure Controls / Personal Protection

11 - Toxicological Information15 - Regulatory Information16 - Other Information

Substance Hazardous Flag Changed

Substance Regulatory CAS Number Changed

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

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Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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# Safety Data Sheet



\* Trusted Quality Since 1921.\*
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# 1. Identification

Product Name: PTOUCH SSPR 6PK FLAT WHITE Revision Date: 11/6/2018

Product Identifier: 334021 Supercedes Date: 10/9/2018

Recommended Use: Topcoat/Aerosol

Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation 11 Hawthorn Parkway 11 Hawthorn Parkway

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Vernon Hills, IL 60061 USA

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

#### 2. Hazard Identification

#### Classification

#### Symbol(s) of Product



# Signal Word

Danger

#### Possible Hazards

47% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### GHS HAZARD STATEMENTS

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Compressed Gas	H280	Contains gas under pressure; may explode if heated.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

# GHS LABEL PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

LIDEA

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 For specific treatment see label

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

#### **GHS SDS PRECAUTIONARY STATEMENTS**

P363 Wash contaminated clothing before reuse.

# 3. Composition / Information On Ingredients

#### HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-319-332-336
Propane	74-98-6	10-25	GHS04	H280
n-Butane	106-97-8	2.5-10	GHS04	H280
Titanium Dioxide	13463-67-7	2.5-10	Not Available	Not Available
Hydrotreated Light Distillate	64742-47-8	2.5-10	GHS08	H304
Xylenes (o-, m-, p- isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
Hydrous Magnesium Silicate	14807-96-6	2.5-10	Not Available	Not Available
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	2.5-10	GHS08	H304
Kaolin Clay	1332-58-7	1.0-2.5	Not Available	Not Available
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07- GHS08	H225-304-332-351-373
Methyl ethyl ketoxime	96-29-7	0.1-1.0	GHS05-GHS06- GHS08	H302-312-317-318-331-351

# 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

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# 5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

#### 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

# 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

# 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	30.0	250 ppm	500 ppm	1000 ppm	N.E.
Propane	74-98-6	25.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m3	N.É.	15 mg/m3	N.E.
Hydrotreated Light Distillate	64742-47-8	10.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Hydrous Magnesium Silicate	14807-96-6	5.0	2 mg/m3	N.E.	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	5.0	N.E.	N.E.	N.E.	N.E.
Kaolin Clay	1332-58-7	5.0	2 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Methyl ethyl ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

# 9. Physical and Chemical Properties

Appearance: **Physical State:** Aerosolized Mist Liquid Odor: Odor Threshold: N.E. Solvent Like Relative Density: 0.803 pH: N.D. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-Slight N.D. octanol/water: Decompostion Temp., °C: N.D. Boiling Range, °C: -37 - 537 Explosive Limits, vol%: 0.9 - 13.0Flammability: Flash Point, °C: Supports Combustion -96 **Evaporation Rate:** Auto-ignition Temp., °C: Faster than Ether N.D. Vapor Density: Vapor Pressure: Heavier than Air N.D.

(See "Other information" Section for abbreviation legend)

# 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

# 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

 CAS-No.
 Chemical Name
 Oral LD50
 Dermal LD50
 Vapor LC50

 67-64-1
 Acetone
 5800 mg/kg Rat
 >15700 mg/kg Rabbit
 50.1 mg/L Rat

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106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	2500 mg/kg	N.E.
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	N.E.	30
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
1332-58-7	Kaolin Clay	5500 mg/kg	>5000 mg/kg Rat	25
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
96-29-7	Methyl ethyl ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.8 mg/L Rat

N.E. - Not Established

# 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

# 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

# 14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

# 15. Regulatory Information

# U.S. Federal Regulations:

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- isomers)1330-20-7Ethylbenzene100-41-4

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

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# U.S. State Regulations:

#### California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

# 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Health: 2 Flammability: 4 Instability 0

Maximum Incremental Reactivity 0.79

SDS REVISION DATE: 11/6/2018

REASON FOR REVISION: Product Composition Changed

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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# Safety Data Sheet



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**Revision Date:** 

Supercedes Date:

# 1. Identification

PTOUCH 2X +SSPR THD 6PK GLOSS **Product Name:** 

**BLACK** 

334026 Product Identifier:

Recommended Use: Topcoat/Aerosol

Rust-Oleum Corporation Supplier:

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

# \* Trusted Quality Since 1921 \*

Rust-Oleum Corporation Manufacturer:

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

5/11/2021

10/9/2018

# 2. Hazards Identification

# Classification

Symbol(s) of Product









#### Signal Word

Danger

#### Possible Hazards

27% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, Single Exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT Panastad Exposure, catagony 1	H372	Causes damage to organs through n

Causes damage to organs through prolonged or repeated exposure. STOT, Repeated Exposure, category 1 H372

H280 Gases under Pressure; Compressed Gas Contains gas under pressure; may explode if heated.

#### **GHS LABEL PRECAUTIONARY STATEMENTS**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

No Information

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P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 For specific treatment see label.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

#### **GHS SDS PRECAUTIONARY STATEMENTS**

P270 Do not eat, drink or smoke when using this product.

P363 Wash contaminated clothing before reuse.

# 3. Composition / Information on Ingredients

#### HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-319-332-336
Propane	74-98-6	10-25	GHS04	H280
n-Butyl Acetate	123-86-4	10-25	GHS02-GHS07	H226-336
n-Butane	106-97-8	2.5-10	GHS04	H280
Xylenes (o-, m-, p- Isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
Propylene Glycol Monobutyl Ether	5131-66-8	2.5-10	GHS07	H302-315-319
Stoddard Solvent	8052-41-3	1.0-2.5	GHS08	H304-372
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07- GHS08	H225-304-332-373
Carbon Black	1333-86-4	0.1-1.0	Not Available	Not Available
Methyl Ethyl Ketoxime	96-29-7	0.1-1.0	GHS05-GHS06- GHS07	H302-312-317-318-331
Cobalt 2-Ethylhexanoate	136-52-7	0.1-1.0	Not Available	Not Available

# 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

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# 5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

#### Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

# 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE**: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

# 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	30.0	250 ppm	500 ppm	1000 ppm	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	20.0	50 ppm	150 ppm	150 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Propylene Glycol Monobutyl Ether	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.
Stoddard Solvent	8052-41-3	5.0	100 ppm	N.E.	500 ppm	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.
Carbon Black	1333-86-4	1.0	3 mg/m3	N.E.	3.5 mg/m3	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.
Cobalt 2-Ethylhexanoate	136-52-7	1.0	N.Ė.	N.E.	N.E.	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

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EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

# 9. Physical and Chemical Properties

Appearance: Aerosolized Mist **Physical State:** Liquid Odor: Odor Threshold: N.E. Solvent Like Specific Gravity: 0.777pH: N.A. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-Slight N.D. octanol/water: Decomposition Temp., °C: N.D. Boiling Range, °C: -37 - 171 Explosive Limits, vol%: 1.0 - 13.0Flash Point, °C: Flammability: Supports Combustion -96 **Evaporation Rate:** Auto-Ignition Temp., °C: Faster than Ether N.D. Vapor Density: Vapor Pressure: N.D. Heavier than Air

(See "Other information" Section for abbreviation legend)

# 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

# 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: No Information

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

Date Printed: 5/11/2021 Page 5 / 6

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
5131-66-8	Propylene Glycol Monobutyl Ether	1900 mg/kg Rat	>2000 mg/kg Rat	N.E.
8052-41-3	Stoddard Solvent	N.E.	>3000 mg/kg Rabbit	N.E.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
1333-86-4	Carbon Black	>15400 mg/kg Rat	N.E.	N.E.
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat
136-52-7	Cobalt 2-Ethylhexanoate	N.E.	>5000 mg/kg Rabbit	N.E.

N.E. - Not Established

# 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

# 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

# 14. Transport Information

UN Number:	Domestic (USDOT)	International (IMDG)	<b>Air (IATA)</b>	TDG (Canada)
	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

# 15. Regulatory Information

# U.S. Federal Regulations:

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

#### **SARA Section 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
Xylenes (o-, m-, p- Isomers)	1330-20-7
Ethylbenzene	100-41-4
Cobalt 2-Ethylhexanoate	136-52-7

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#### **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

# U.S. State Regulations:

#### California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

#### 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Health: 2 Flammability: 4 Instability: 0

Maximum Incremental Reactivity: 0.90

SDS REVISION DATE: 5/11/2021

**REASON FOR REVISION:** Revision Description Changed

**Product Composition Changed** 

Substance and/or Product Properties Changed in

Section(s):

01 - Identification

02 - Hazard Identification05 - Fire-Fighting Measures

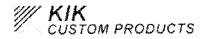
09 - Physical & Chemical Properties

15 - Regulatory Information16 - Other Information

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



Issue Date No data available

Revision Date 26-Mar-2015

Version 1

#### 1. IDENTIFICATION

Product identifier

Product Name

Pure Bright Germicidal Ultra Bleach 1 GAL

Other means of identification

**Product UPC** 

59647-21014

**Product Code** 

11008635041, 11008635042, 11008638431

Synonyms

None

Recommended use of the chemical and restrictions on use

Recommended Use

Disinfectant. Cleaning agent. Chlorine-based bleaching agents.

Uses advised against

No information available

# Details of the supplier of the safety data sheet

Manufacturer Address

KIK International LLC 33 Macintosh Blvd. Concord, Ontario Canada L4K 4L5

1-800-479-6603

Emergency telephone number

**Emergency Telephone** 

Poison Control Center (Medical): (866) 366-5048

Chemtel (Transportation) 1-888-255-3924

#### 2. HAZARDS IDENTIFICATION

#### Classification

**OSHA Regulatory Status** 

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

#### Label elements

**Emergency Overview** 

Danger

Hazard statements

Causes skin irritation Causes serious eye damage



Appearance clear, light yellow

Physical state liquid

Odor Chlorine

**Precautionary Statements - Prevention** 

#### 11008635041, 11008635042, 11008638431 - Pure Bright Germicidal Ultra Bleach 1 GAL

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention

#### Precautionary Statements - Storage

Keep out of reach of children. Store in a dry place. Store in a closed container. Protect from sunlight. Store in a well-ventilated place

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

0% of the mixture consists of ingredient(s) of unknown toxicity Very toxic to aquatic life with long lasting effects

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium hypochlorite	7681-52-9	5-7	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### Description of first aid measures

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes.

Skin contact

Wash skin with soap and water.

Inhalation

Remove to fresh air.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** 

No information available.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** 

See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Acids, Ammonia.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** 

This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state

**Appearance** Color

clear, light yellow

light yellow

Odor Odor threshold

Remarks • Method

Chlorine

No information available

**Property** 

pН Melting point/freezing point Boiling point / boiling range

Flash point Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

Specific Gravity Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity

Dynamic viscosity **Explosive properties** Oxidizing properties

~12.5

Values

No information available No information available No information available No information available No information available

No information available No information available No information available No information available

1.07 - 1.09 Soluble in water No information available No information available

No information available No information available No information available No information available No information available No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density **Bulk density**  No information available No information available

None

No information available No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

## Conditions to avoid

Incompatible materials. Extremes of temperature and direct sunlight.

#### Incompatible materials

Acids, Ammonia.

#### **Hazardous Decomposition Products**

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

Inhalation

Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact

Avoid contact with eyes. May cause burns.

Skin contact

Avoid contact with skin. May cause irritation.

Ingestion

May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite	= 8200 mg/kg ( Rat )	> 10000 mg/kg (Rabbit)	-
7681-52-9			

#### Information on toxicological effects

**Symptoms** 

No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite	-	Group 3	· -	-
7681-52-9				

Not classifiable as a human carcinogen

Reproductive toxicity

No information available.

STOT - single exposure

No information available. No information available.

STOT - repeated exposure Aspiration hazard

No information available.

# Numerical measures of toxicity - Product Information

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales prometas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales prometas mg/L LC50 static 0.4 - 0.8: 96 h	2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static
		Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50	
		flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	
Sodium hydroxide 1310-73-2	_	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	<u>.</u>

#### 11008635041, 11008635042, 11008638431 - Pure Bright Germicidal Ultra Bleach 1 GAL

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and Disposal of wastes

regulations.

Do not reuse container. Dispose of in accordance with federal, state and local regulations. Contaminated packaging

#### 14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

UN/ID no.

3082

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Hazard Class** 

9

Packing Group Description

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III

IMDG

UN/ID no.

Proper shipping name

q

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Hazard Class Packing Group** 

111

Marine pollutant

This material meets the definition of a marine pollutant

Description

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III

#### 15. REGULATORY INFORMATION

International Inventories

TSCA

Complies

DSL/NDSL

Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations** 

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb	-	-	X

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hypochlorite	100 lb	-	RQ 100 lb final RQ
7681-52-9			RQ 45.4 kg final RQ

#### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite 7681-52-9	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number 70271-13

#### Difference between SDS and EPA Pesticide label

DANGER: Corrosive. May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 0	Instability 1	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 0	Physical hazards 1	Personal protection B

Revision Date

26-Mar-2015

**Revision Note** 

No information available

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 





Version 1.1

Revision Date: 02/10/2015

MSDS Number: 36762-00002

Date of last issue: 12/12/2014 Date of first issue: 12/12/2014

#### **SECTION 1. IDENTIFICATION**

Product name **PURELL® Advanced Instant Hand Sanitizer** 

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address One GOJO Plaza, Suite 500

Akron OH 44311

1 (330) 255-6000 Telephone

1-800-424-9300 CHEMTREC Emergency telephone

Recommended use of the chemical and restrictions on use

Recommended use : Hand Sanitizer

This is a personal care or cosmetic product that is safe for Restrictions on use

consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information

provided on the package or instruction sheet.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS Label element

Hazard pictograms





Signal Word : Warning

H226 Flammable liquid and vapor. Hazard Statements

of the what was the

H319 Causes serious eye irritation.

## **PURELL® Advanced Instant Hand Sanitizer**



Version

Revision Date:

MSDS Number:

Date of last issue: 12/12/2014

1.1

02/10/2015

36762-00002

Date of first issue: 12/12/2014

**Precautionary Statements** 

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsina.

P337 + P313 If eye irritation persists: Get medical advice/

attention. Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

Vapors may form explosive mixture with air.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice

: In the case of accident or if you feel unwell, seek medical

advice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled

: If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact

: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact

: In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.





Version

1.1

Revision Date: 02/10/2015

MSDS Number:

Date of last issue: 12/12/2014

36762-00002

Date of first issue: 12/12/2014

Get medical attention.

If swallowed

: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

: Causes serious eye irritation.

Protection of first-aiders

: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician

: Treat symptomatically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media

: Water spray

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

Flash back possible over considerable distance. Vapors may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

: Carbon oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

Evacuate area.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions

: Discharge into the environment must be avoided.

# **PURELL® Advanced Instant Hand Sanitizer**



Version

Revision Date: 02/10/2015

MSDS Number: 36762-00002

Date of last issue: 12/12/2014 Date of first issue: 12/12/2014

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapors/mists with a water spray

jet.

For large spills, provide diking or other appropriate

containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate

container.

Clean up remaining materials from spill with suitable

absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in the cleanup of releases. You will need to

determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures

: See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

: Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling

: Do not breathe vapors or spray mist.

Do not swallow. Do not get in eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

practice.

Non-sparking tools should be used.

Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage

Keep in properly labeled containers.

Keep tightly closed.

Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Keep away from heat and sources of ignition.

Materials to avoid

Do not store with the following product types:

Strong oxidizing agents





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Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures which in contact with water emit

flammable gases

Explosives Gases

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

#### Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust

ventilation.

Use with local exhaust ventilation.

#### Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and





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use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Material

Impervious gloves

Material

: Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before

breaks and at the end of workday.

Eye protection Wear the following personal protective equipment:

Safety goggles

Skin and body protection Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Wear the following personal protective equipment: Flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Ensure that eye flushing systems and safety showers are Hygiene measures

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : gel

Color : clear, light blue

Odor : fruity

Odor Threshold : No data available

pН : 6.5 - 8.5

Melting point/freezing point : No data available

Initial boiling point and boiling : 73 °C

range



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Flash point

: 25 °C

Evaporation rate

: No data available

Flammability (solid, gas)

: Not applicable

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapor pressure

: No data available

Relative vapor density

: No data available

Density

: 0.881 g/cm3

Solubility(ies)

Water solubility

: soluble

Partition coefficient: n-

octanol/water

: Not applicable

Autoignition temperature

: No data available

Decomposition temperature

: The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic

: 1,000 - 17,000 mm2/s (20 °C)

Explosive properties

: Not explosive

Oxidizing properties

: The substance or mixture is not classified as oxidizing.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: Not classified as a reactivity hazard.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reac-

tions

: Flammable liquid and vapor.

Vapors may form explosive mixture with air. Can react with strong oxidizing agents.

Conditions to avoid

: Heat, flames and sparks.

Incompatible materials

: Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Ingredients:

Ethanol:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC50 (Rat): 124.7 mg/l Exposure time: 4 h

Test atmosphere: vapor

Propan-2-oi:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC50 (Rat): 72.6 mg/l Exposure time: 4 h

Test atmosphere: vapor

Acute dermal toxicity

: LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Propan-2-ol:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:





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Ethanol:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Method: OECD Test Guideline 405

Propan-2-ol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:

Ethanol:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Ethanol:

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo

: Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Ingestion

Result: negative

Propan-2-ol:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo

: Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

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# Carcinogenicity

Not classified based on available information.

## Ingredients:

# Propan-2-ol:

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

**IARC** 

No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** 

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### Ingredients:

#### Ethanol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Propan-2-ol:

Effects on fertility

Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on fetal development

: Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

#### STOT-single exposure

Not classified based on available information.

#### Ingredients:

#### Propan-2-ol:

Assessment: May cause drowsiness or dizziness.



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#### STOT-repeated exposure

Not classified based on available information.

#### Repeated dose toxicity

#### Ingredients:

Ethanol: Species: Rat

NOAEL: 2,400 mg/kg Application Route: Ingestion

Exposure time: 2 y

## Propan-2-ol:

Species: Rat NOAEL: 5000 ppm

Application Route: inhalation (vapor)

Exposure time: 104 w

Method: OECD Test Guideline 413

#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

## Ingredients:

Ethanol:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 9.6 mg/l

Exposure time: 9 d

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l

Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

March & All Care and State of the

Exposure time: 24 h

: ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 Toxicity to algae

mg/L





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Exposure time: 8 d

Toxicity to bacteria

: EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

Persistence and degradability

Ingredients:

Ethanol:

Biodegradability

: Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Propan-2-ol:

Biodegradability

: Result: rapidly degradable

Bioaccumulative potential

Ingredients:

Ethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

Mobility in soil
No data available

Other adverse effects

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS** 

Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.

Contaminated packaging

: Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION** 

International Regulation

UNRTDG

UN number

: UN 1987

Proper shipping name

: ALCOHOLS, N.O.S.



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(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3

IATA-DGR

UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.
(Ethanol, Propan-2-ol)

Class : 3
Packing group : III

Labels : Flammable Liquids

: 366

Packing instruction (cargo

aircraft)

Packing instruction : 355

(passenger aircraft)

IMDG-Code

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D

Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

**49 CFR** 

UN/ID/NA number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

Class : 3 Packing group : III

Labels : FLAMMABLE LIQUID

ERG Code : 127 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard





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Acute Health Hazard

**SARA 302** 

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

**SARA 313** 

The following components are subject to reporting levels

established by SARA Title III, Section 313:

Propan-2-ol

67-63-0

3.4086 %

**US State Regulations** 

Pennsylvania Right To Know

 Ethanol
 64-17-5
 50 - 70 %

 Water
 7732-18-5
 30 - 50 %

 Propan-2-ol
 67-63-0
 1 - 5 %

New Jersey Right To Know

 Ethanol
 64-17-5
 50 - 70 %

 Water
 7732-18-5
 30 - 50 %

 Propan-2-ol
 67-63-0
 1 - 5 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other

reproductive defects.

The ingredients of this product are reported in the following inventories:

REACH

: All ingredients (pre-)registered or exempt.

**TSCA** 

 All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical

Substances.

DSL

: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the

Canadian Domestic Substances List (DSL).

AICS

: All ingredients listed or exempt.

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

# PURELL® Advanced Instant Hand Sanitizer



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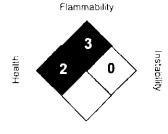
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#### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA:



Special hazard

#### HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### Full text of other abbreviations

USA, ACGIH Threshold Limit Values (TLV) ACGIH BEI ACGIH - Biological Exposure Indices (BEI) NIOSH REL USA, NIOSH Recommended Exposure Limits

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-OSHA Z-1

its for Air Contaminants

8-hour, time-weighted average ACGIH / TWA ACGIH / STEL Short-term exposure limit

NIOSH REL / TWA Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA Z-1 / TWA 8-hour time weighted average

Sources of key data used to compile the Material Safety

Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8

# PURELL® Instant Hand Sanitizer Gel VF481™



Version 1.2

Revision Date: 02/11/2015

MSDS Number: 46679-00003

Date of last issue: 01/16/2015 Date of first issue: 01/13/2015

#### SECTION 1. IDENTIFICATION

Product name

: PURELL® Instant Hand Sanitizer Gel VF481™

Manufacturer or supplier's details

Company name of supplier

: GOJO Industries, Inc.

Address

One GOJO Plaza, Suite 500

Akron OH 44311

Telephone

: 1 (330) 255-6000

Emergency telephone

1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use

: Hand Sanitizer

Restrictions on use

This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids

: Category 3

Eye irritation

: Category 2A

GHS Label element

Hazard pictograms

 $\langle \hat{\mathbf{v}} \rangle$ 

Signal Word

: Warning

Hazard Statements

H226 Flammable liquid and vapor.
 H319 Causes serious eye irritation.

## PURELL® Instant Hand Sanitizer Gel VF481™



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Precautionary Statements

: Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

Vapors may form explosive mixture with air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice

In the case of accident or if you feel unwell, seek medical

advice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact

: Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eye contact

: In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.





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Get medical attention.

If swallowed

: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

: Causes serious eye irritation.

Protection of first-aiders

: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician

: Treat symptomatically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media

Water spray

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire

Flash back possible over considerable distance. Vapors may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

: Carbon oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.
Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions

: Discharge into the environment must be avoided.





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Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapors/mists with a water spray

jet.

For large spills, provide diking or other appropriate

containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate

container.

Clean up remaining materials from spill with suitable

absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in the cleanup of releases. You will need to

determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures

: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

: Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling

: Do not breathe vapors or spray mist.

Do not swallow. Do not get in eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

practice.

Non-sparking tools should be used. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage

: Keep in properly labeled containers.

Keep tightly closed.

Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Keep away from heat and sources of ignition.

Materials to avoid

: Do not store with the following product types:

Strong oxidizing agents





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Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures which in contact with water emit

flammable gases Explosives Gases

#### SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

#### Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

#### Engineering measures

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust

ventilation.

Use with local exhaust ventilation.

#### Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and





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use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection Material

: Impervious gloves

Material

: Flame retardant gloves

Remarks

: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before

breaks and at the end of workday.

Eye protection

: Wear the following personal protective equipment:

Safety goggles

Skin and body protection

 Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure

potential.

Wear the following personal protective equipment: Flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Hygiene measures

: Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Color

: clear, Hazy, blue green

Odor

: alcohol-like

Odor Threshold

: No data available

рH

3.5 - 5.2

Melting point/freezing point

: No data available

Initial boiling point and boiling

: 75.00 °C

range





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Flash point

: 26.5 °C

Evaporation rate

: No data available

Flammability (solid, gas)

: Not applicable

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapor pressure

: No data available

Relative vapor density

: No data available

Density

: 0.8850 g/cm3

Solubility(ies)

Water solubility

: soluble

Partition coefficient: n-

octanol/water

: Not applicable

Autoignition temperature

: No data available

Decomposition temperature

: The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic

: 80 - 600 mm2/s (20 °C)

Explosive properties

: Not explosive

Oxidizing properties

: The substance or mixture is not classified as oxidizing.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: Not classified as a reactivity hazard.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reac-

tions

: Flammable liquid and vapor.

Vapors may form explosive mixture with air. Can react with strong oxidizing agents.

Conditions to avoid

: Heat, flames and sparks.

Incompatible materials

: Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

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#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### **Acute toxicity**

Not classified based on available information.

#### Ingredients:

Ethanol:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapor

Propan-2-ol:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC50 (Rat): 72.6 mg/l Exposure time: 4 h Test atmosphere: vapor

Acute dermal toxicity

: LD50 (Rat): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Result: No skin irritation

#### Ingredients:

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Propan-2-ol: Species: Rabbit

Result: No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Ingredients:

Ethanol:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Method: OECD Test Guideline 405

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Propan-2-ol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:

Ethanol:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Ethanol:

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo

: Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Ingestion

Result: negative

Propan-2-ol:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo

: Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

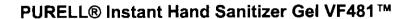
Result: negative

Carcinogenicity

Not classified based on available information.

Ingredients:

Propan-2-ol:





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Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

**IARC** 

No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP

No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### Ingredients:

Ethanol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Propan-2-ol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on fetal development

Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

#### STOT-single exposure

Not classified based on available information.

#### Ingredients:

Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

#### STOT-repeated exposure

Not classified based on available information.

#### Repeated dose toxicity

#### Ingredients:

Ethanol:





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Species: Rat

NOAEL: 2,400 mg/kg Application Route: Ingestion

Exposure time: 2 y

Propan-2-ol: Species: Rat NOAEL: 5000 ppm

Application Route: inhalation (vapor)

Exposure time: 104 w

Method: OECD Test Guideline 413

#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Ingredients:

Ethanol:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae

: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 9.6 mg/l

Exposure time: 9 d

Toxicity to bacteria

: EC50 (Photobacterium phosphoreum): 32.1 mg/l

Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to algae

: ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800

mg/l

Exposure time: 8 d

Toxicity to bacteria

: EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h





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Persistence and degradability

Ingredients:

Ethanol:

Biodegradability

: Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Propan-2-ol:

Biodegradability

: Result: rapidly degradable

Bioaccumulative potential

Ingredients:

Ethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

Mobility in soil
No data available

\_\_\_

Other adverse effects

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues

: Dispose of in accordance with local regulations.

Contaminated packaging

: Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION** 

International Regulation

UNRTDG

**UN** number

: UN 1987

Proper shipping name

: ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

Class

: 3

Packing group

: 111

Labels

: 3

IATA-DGR

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#### PURELL® Instant Hand Sanitizer Gel VF481™

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: UN 1987

UN/ID No.

Proper shipping name : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class : 3
Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

IMDG-Code

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

**49 CFR** 

UN/ID/NA number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

Class : 3 Packing group : III

Labels : FLAMMABLE LIQUID

ERG Code : 127 Marine pollutant : no

#### SECTION 15. REGULATORY INFORMATION

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Fire Hazard

Acute Health Hazard

**SARA 302** 

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.





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**SARA 313** 

: The following components are subject to reporting levels

established by SARA Title III, Section 313:

Propan-2-ol

67-63-0

3.4086 %

#### **US State Regulations**

#### Pennsylvania Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %
New Jersey Right To Know		
Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63 <b>-</b> 0	1 - 5 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other

reproductive defects.

## The ingredients of this product are reported in the following inventories:

AICS

: All ingredients listed or exempt.

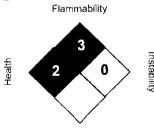
#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD 2	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### Full text of other abbreviations

**ACGIH** 

: USA. ACGIH Threshold Limit Values (TLV)

# GOĴO

# PURELL® Instant Hand Sanitizer Gel VF481™

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ACGI	H BEI	: ACGIH - Biolog	ical Exposure Indices (BEI)
NIOS	H REL	: USA. NIOSH R	ecommended Exposure Limits
OSHA	A Z-1	: USA. Occupation its for Air Conta	onal Exposure Limits (OSHA) - Table Z-1 Lim- minants
ACGI	H/TWA	: 8-hour, time-we	ighted average
ACGI	H/STEL	: Short-term expo	
NIOS	H REL / TWA		average concentration for up to a 10-hour a 40-hour workweek
NIOS	H REL / ST	: STEL - 15-minu at any time duri	ite TWA exposure that should not be exceededing a workday
OSHA	4 Z-1 / TWA	: 8-hour time wei	ghted average
comp	ces of key data used to ile the Material Safety Sheet		al data, data from raw material SDSs, OECD search results and European Chemicals Agen- europa.eu/
Revis	sion Date	: 02/11/2015	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8



Version 1.3

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Revision Date: 03/02/2016

#### **SECTION 1. IDENTIFICATION**

Product name

: PURELL® PROFESSIONAL SURFACE DISINFECTANT -

FINISHED PRODUCT USE ONLY

#### Manufacturer or supplier's details

Company name of supplier

: GOJO Industries, Inc.

Address

One GOJO Plaza, Suite 500

Akron, Ohio, 44311

Telephone

1 (330) 255-6000

Emergency telephone

number

: 1-800-424-9300 CHEMTREC

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids

: Category 3

**GHS Label element** 

Hazard pictograms

Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.

Precautionary statements

: Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233 Keep container tightly closed. P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alco-

hol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None Known



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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Ethyl Alcohol	64-17-5	>= 20 - < 35
Isopropyl Alcohol	67-63-0	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice

: In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

If inhaled

: If sensitivity occurs, remove to fresh air.

If symptoms persist, call a physician.

In case of skin contact

: If sensitivity occurs, wash with soap and water.

Get medical attention if irritation develops and persists.

In case of eye contact

: In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Seek medical attention.

If swallowed

: Rinse mouth with water. Obtain medical attention.

Protection of first-aiders

: First Aid responders should pay attention to self-protection

and use the recommended protective clothing

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

: Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire

Cool closed containers exposed to fire with water spray.

Flash back possible over considerable distance.

May form explosive mixtures in air.

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing meth-

: Use extinguishing measures that are appropriate to local cir-



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ods cumstances and the surrounding environment.

Use water spray to cool unopened containers.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- : Use personal protective equipment.

tive equipment and emer-

gency procedures

Ensure adequate ventilation. Remove all sources of ignition.

Material can create slippery conditions.

Discharge into the environment must be avoided. Environmental precautions

Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Methods and materials for

containment and cleaning up

Non-sparking tools should be used.

Soak up with inert absorbent material.

Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while ob-

serving environmental regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Avoid contact with eyes.

Conditions for safe storage

: No smoking.

Take measures to prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with the particular national regulations.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH



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	STEL	400 ppm	ACGIH
	TWA	400 ppm 980 mg/m3	NIOSH REL
	ST	500 ppm 1,225 mg/m3	NIOSH REL
	TWA	400 ppm 980 mg/m3	OSHA Z-1

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra-	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

#### Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally re-

quired.

Eye protection

: No special measures necessary provided product is used

correctly.

Skin and body protection

: No special measures necessary provided product is used

correctly.

Protective measures

: Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety

practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: liquid

Colour

: colourless

Odour

: alcohol-like

Odour Threshold

: No data available

рΗ

: 12.6 - 12.9, (24 °C)



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Melting point/freezing point

: No data available

Initial boiling point and boiling

range

: 77 °C

Flash point

: 30.8 °C

Method: Pensky-Martens closed cup

Evaporation rate

: No data available

Flammability (solid, gas)

: Not applicable

Upper explosion limit

: 19 %(V)

Lower explosion limit

: 3.3 %(V)

Vapour pressure

: No data available

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.952 g/cm3

Solubility(ies)

Water solubility

: soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature

: not determined

Thermal decomposition

: The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, dynamic

: 2.6 mPa.s

Explosive properties

: Not explosive

Oxidizing properties

: The substance or mixture is not classified as oxidizing.

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: Not classified as a reactivity hazard.

Possibility of hazardous reac-

tions

: Vapours may form explosive mixture with air.

Conditions to avoid

: Heat, flames and sparks.

Incompatible materials

: Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.



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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation Skin contact Eye contact

#### **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

**IARC** 

No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** 

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP

No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.



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#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity: No information available on product

Persistence and degradability: No information available on product

Bioaccumulative potential: No information available on product

Mobility in soil: No information available on product

Other adverse effects: No information available on product

Product:

Regulation 40 CFR Protection of Environment: Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulation

IATA-DGR

UN/ID No. : UN 1987

Proper shipping name : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class : 3

: 111 Packing group : 366

Packing instruction (cargo

aircraft)

IMDG-Code

UN number : UN 1987

: ALCOHOLS, N.O.S. Proper shipping name

(Ethanol, Propan-2-ol)

: 3 Class Packing group : 111 Labels 3

: F-E, S-D EmS Code

Marine pollutant : no



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#### **National Regulations**

**49 CFR** 

UN/ID/NA number

: UN 1987

Proper shipping name

: Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class

Packing group **ERG Code** 

: 3 : 111

: 127 Marine pollutant : no

### **SECTION 15. REGULATORY INFORMATION**

# EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
Potassium Hydroxide	1310-58-3	(lbs) 1000	(lbs)

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Fire Hazard

**SARA 302** 

: No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

**SARA 313** 

: The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Isopropyl Alcohol

67-63-0

1.42 %

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Ethyl Alcohol

64-17-5

29.4 %

Isopropyl Alcohol

67-63-0

1.42 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

#### Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Potassium Hydroxide

1310-58-3

0.35 %

Version 1.3



Revision Date: 03/02/2016

20 - 35 %

1-5%

# PURELL® PROFESSIONAL SURFACE DISINFECTANT - FINISHED PRODUCT

The following Hazardous Chemicals are listed under the U.S.	. CleanWater Act,	, Section 311,	Table

MSDS Number: 400000005189

117.3:
Potassium Hydroxide 1310-58-3 0.35 %

Massachusetts Right To Know

Isopropyl Alcohol
Pennsylvania Right To Know

Ethyl Alcohol

 Water (Aqua)
 7732-18-5
 70 - 90 %

 Ethyl Alcohol
 64-17-5
 20 - 35 %

 Isopropyl Alcohol
 67-63-0
 1 - 5 %

 Potassium Hydroxide
 1310-58-3
 0.1 - 1 %

**New Jersey Right To Know** 

 Water (Aqua)
 7732-18-5
 70 - 90 %

 Ethyl Alcohol
 64-17-5
 20 - 35 %

 Isopropyl Alcohol
 67-63-0
 1 - 5 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

64-17-5

67-63-0

#### The components of this product are reported in the following inventories:

CH INV : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory ISHL

: On the inventory, or in compliance with the inventory

KEC1 : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

# SECTION 16. OTHER INFORMATION

#### Further information:



# PURELL® PROFESSIONAL SURFACE DISINFECTANT - FINISHED PRODUCT

Version 1.3

MSDS Number: 400000005189

Revision Date: 03/02/2016

Revision Date

: 03/02/2016

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Revision Date 19-June-2019

#### 1. IDENTIFICATION

**Product identifier** 

Product Name PURESAN BOTANICAL CLEANER DISINFECTANT WIPES

Item code: 101B

Recommended use of the chemical and restrictions on use

Recommended Use Hard Surface Disinfecting, Cleaning Wipe. Do not dilute.

Details of the supplier of the safety data sheet Manufacturer

Address

PO Box 170 Sparta, NJ 07871

Emergency telephone number

Company Phone Number 855-500-8080

Chemtrec 24-Hour U.S. Number: (800) 424-9300 Chemtrec

**Emergency Telephone** 

## 2. HAZARDS IDENTIFICATION

#### Classification

OSHA Regulatory Status (29CFR1910,1200): Not Hazardous

Acute toxicity - Oral	Not classified Oral LD50 (rat) > 5 g/kg body weight	
Acute toxicity - Dermal	Not classified Dermal LD50 (rabbit) > 5 g/kg body weight	
Acute toxicity - Inhalation (Vapors)	Not classified LCso > 2.04 mg/L	
Serious eye damage/eye irritation	Mildly irritating	
Skin sensitization	Not a skin sensitizer	

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%	
Citric Acid	77-92-9	0.6	
4. FIRST AID MEASURES			

#### **Description of first aid measures**

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** None under normal use conditions.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

possibility of overexposure to materials other than this product should be considered.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical No information available.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions No special precautions are needed in handling this material.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Large (industrial) release: Before attempting clean up. Refer to hazard data given.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container closed.

Incompatible materials None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

**Engineering Controls** None under normal use conditions.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special technical protective measures are necessary.

**Skin and body protection**No special technical protective measures are necessary.

**Respiratory protection**No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Wet wipe

Clear transparent liquid on white towelettes Clear transparent liquid on white towelettes

Color Light citrus

Odor No information available

Odor threshold

 Property
 Values

 pH
 1.90 - 2.40

Melting point/freezing pointNo information availableBoiling point / boiling rangeNo information available None

Flash point to boiling

Vapor density No information available

Specific Gravity 1.010

Water solubility Complete (100%)

#### 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions

Chemical stability

Stable under recommended storage conditions. **Possibility of Hazardous Reactions** None

under normal processing. Conditions to

avoid

Extremes of temperature.

Incompatible materials

None known based on information supplied.

**Hazardous Decomposition Products** 

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Inhalation No known effect.

**Eye contact** Mildly irritating to the eyes.

D----- 0 / 5

**Skin contact**No known hazard in contact with skin.

**Ingestion** No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Not a contact sensitizer (U.S. EPA Health Effects Test Guidelines, OPPTS 870.2600).

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

No data currently available

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

١	I/A	

### 14. TRANSPORT INFORMATION

<u>Not regulated</u><u>IATA</u><u>IMDG</u>Not regulatedNot regulated

## 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies
DSL/NDSL Complies
IECSC Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

	Chemical Name	New Jersey	Massachusetts	Pennsylvania
Γ				
-				

#### U.S. EPA Label Information

EPA Pesticide Registration Number 34810-36-87815

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties 
HMIS

Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

Revision Date 17-June-2019

#### Disclaimer

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**End of Safety Data Sheet**