

# **Material Safety Data Sheet**



OASIS 139G ALL PURPOSE CLEANER

Product and company identification 1.

Trade name of product

: OASIS 139G ALL PURPOSE CLEANER

Product use

All Purpose Cleaner

Product dilution information

: 1.5625 to 3.125%

2 - 4 oz/gal or 15.62 - 31.25 mL/L

Supplier's information

: Ecolab Co.

5105 Tomken Road

Mississauga ON L4W 2X5

1-800-352-5326

Code

: 905286-02

Date of issue

: 14-July-2010

**EMERGENCY HEALTH INFORMATION: 1-800-328-0026** 

Outside United States and Canada CALL 1-651-222-5352 (in USA)

2. Hazards identification

Product AS SOLD

Physical state

: Liquid.

**Emergency** overview

: CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION. Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Product AS SOLD

Eyes

: Moderately irritating to eyes.

Skin

: Moderately irritating to the skin.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

Product AT USE DILUTION

Product AT USE DILUTION

No known significant effects or critical

hazards.

Liquid.

CAUTION!

No specific hazard.

No specific hazard.

No known significant effects or critical

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

See toxicological information (section 11)

Composition/information on ingredients

**Product AS SOLD** 

% by weight CAS number <u>Name</u> 1 - 5107-41-5 HEXYLENE GLYCOL 1 - 5 112-34-5 BUTOXYDIGLYCOL 68515-73-1 1 - 5 d-glucopyranose, oligomeric, decyl octyl glycosides 110615-47-9 0.5 - 1.5LAURYL POLYGLUCOSE

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

#### First-aid measures 4.

**Product AS SOLD** 

Eye contact

: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get water for a few minutes.

medical attention if irritation persists.

Skin contact

: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Inhalation

: No special measures required. Treat symptomatically. No special measures required. Treat

Ingestion

: Get medical attention if symptoms occur.

Product AT USE DILUTION

No known effect after eye contact. Rinse with

No known effect after skin contact. Rinse with water for a few minutes.

symptomatically.

Get medical attention if symptoms occur.

#### 5. Fire-fighting measures

**Product AS SOLD** 

**Auto-ignition temperature** 

: Not available. : Not available.

Fiammable limits Hazardous thermal

decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Special remarks on fire hazards : Not available.

Special remarks on explosion

hazards

: Not available.

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

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.

#### Accidental release measures 6.

Product AS SOLD

Personal precautions

precautions

Environmental

: Use personal protective equipment as required.

: Avoid contact of large amounts of spilt material and

runoff with soil and surface waterways.

**Methods for** cleaning up

: Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.

Use a water rinse for final clean-up.

#### Handling and storage 7.

**Product AS SOLD** 

Handling

: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage

Keep out of reach of children. Store in a closed

container.

Do not store below the following temperature: 0°C

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

#### OASIS 139G ALL PURPOSE CLEANER

# 8. Exposure controls/personal protection

**Product AS SOLD** 

Engineering measures

: Good general ventilation should be sufficient to control

worker exposure to airborne contaminants.

Personal protection

Eyes

: Safety eyewear should be used when there is a

likelihood of exposure.

**Hands** 

: Use chemical-resistant, impervious gloves.

Skin

: No protective equipment is needed under normal use

conditions.

Respiratory

: No special protection is required.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airbome contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No special protection is required.

Occupational exposure limits		TWA	TWA (8 hours)		STEL (15 mins)		Ceiling				
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
2-methylpentane-2,4-diol	US ACGIH 1/2009 AB 4/2009 BC 10/2009 ON 8/2008 QC 6/2008	- - -	-		- - - - 25	- - - - 121	- - - -	25 25 25 25 25	121 121 - 120 -		[3]

[3]Skin sensitisation

# 9. Physical and chemical properties

**Product AS SOLD** 

Physical state Flash point : Liquid. : > 100°C : Orange.

Colour Odour

: 10 to 11 [Conc. (% w/w): 100%]

Boiling/condensation: Not available.

point

Melting/freezing: Not available.

: Ammoniacal.

point

Relative density : 1.05 to 1.062
Vapour pressure : Not available.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
Viscosity : Not available.
Dispersibility : Not available.

properties

Solubility: Easily soluble in the following materials: cold water

and hot water.

LogK<sub>ow</sub>

: Not available.

Product AT USE DILUTION Liquid. > 100°C

Orange. [Light] Ammoniacal. [Slight]

8 to 11

# 10. Stability and reactivity

#### **Product AS SOLD**

Stability

: The product is stable. Under normal conditions of storage and use, hazardous

polymerisation will not occur.

Conditions of instability

: Not available.

Reactivity

: Slightly reactive or incompatible with the following materials: metals and acids.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Hazardous polymerisation

: Under normal conditions of storage and use, hazardous polymerisation will not occur.

# 11. Toxicological information

#### Potential acute health effects

Product AS SOLD

Eyes

: Moderately irritating to eyes.

Skin

: Moderately irritating to the skin.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

#### Product AT USE DILUTION

No known significant effects or critical

hazards.

#### Product AS SOLD

#### Potential chronic health effects

Carcinogenic effects

: No known significant effects or critical hazards.

Mutagenic effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Teratogenic effects
Reproductive effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Sensitization to Product Synergistic products

: Not available.

(toxicologically)

#### **Toxicity data**

Product/ingredient name	Test	Route	Result	Species
2-methylpentane-2,4-diol	LD50	Dermal	8560 uL/kg	Rabbit
,,,,	LD50	Oral	3700 mg/kg	Rat
	LD50	Oral	3200 mg/kg	Rabbit
	LD50	Oral	3097 mg/kg	Mouse
	LD50	Oral	2800 mg/kg	Guinea pig
2-(2-butoxyethoxy)ethanol	LD50	Dermal	2700 mg/kg	Rabbit
2 (2 22.0%) 2	LD50	Oral	6050 mg/kg	Mouse
	LD50	Oral	6050 mg/kg	Rat
	LD50	Oral	5660 mg/kg	Rat
	LD50	Oral	4500 mg/kg	Rat
	LD50	Oral	4500 mg/kg	Mouse
	LD50	Orai	2400 mg/kg	Mouse

#### Other adverse effects

Target organs

: Contains material which may cause damage to the following organs: blood, kidneys,

liver, central nervous system (CNS).

#### OASIS 139G ALL PURPOSE CLEANER

# 12. Ecological information

**Ecotoxicity** 

: Not reported

# 13. Disposal considerations

**Product AS SOLD** 

Waste disposal : Diluted product can be flushed to sanitary sewer.

Discard empty container in trash.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

# 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**Product AS SOLD** 

**IMO/IMDG Classification** 

Not regulated.

See shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

# 15. Regulatory information

**Product AS SOLD** 

**Product AT USE DILUTION** 

**WHMIS** 

: Class D-2B: Material causing other toxic effects (Toxic).

Not hazardous by WHMIS criteria.

Canada inventory

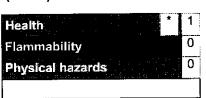
: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

# 16. Other information

**Product AS SOLD** 

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

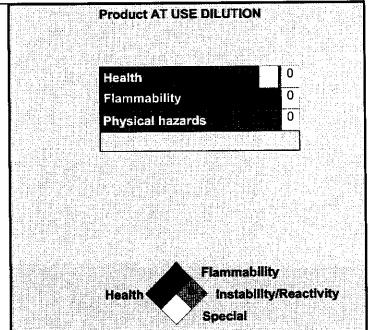


Date of issue

: 14-July-2010

Date of previous issue

: No previous validation



#### OASIS 139G ALL PURPOSE CLEANER

# 16. Other information

Responsible name

: Regulatory Affairs

1-800-352-5326

**▼** Indicates information that has changed from previously issued version.

#### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



## SAFETY DATA SHEET

#### 1. Identification

**Product identifier Oatey Pipe Joint Lubricant** 

Other means of identification

Product code

Synonyms Part Numbers: 30599, 30600, 30601, 30602

Recommended use Lubricant Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

**Company Name** Oatey Inc.

Address 4700 West 160th Street

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

**Transport Emergency** Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

1-877-740-5015 **Emergency First Aid** MSDS Coordinator Contact person

2. Hazard(s) identification

Physical hazards Not Classified.

**Health hazards** Cat 3 Skin Irritant

> Cat 2B Eye Irritation

**OSHA** defined hazards This chemical is considered non-hazardous according to the OSHA Hazard Communication

Standard 2012 (29 CFR 1910.1200)

Label elements

Hazard symbol None. Signal word Warning

Hazard statement Causes mild skin irritation. Causes eye irritation.

Precautionary statement

Prevention Wash skin thoroughly after handling.

Response If skin irritation occurs: 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.

Storage Not applicable. Disposal Not applicable.

Hazard(s) not otherwise

classified (HNOC)

None.

#### 3. Composition/information on ingredients

#### **Mixtures**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name **CAS** number % Mixed sodium and potassium salts of tall oil (soap) 68606-06-4 15 - 25

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact Wash off immediately with soap and water. If skin irritation persists, call a physician.

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Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get medical attention if irritation occurs.

Ingestion Do NOT induce vomiting. Drink plenty of water. Rinse mouth. Never give anything by mouth to

an unconscious person. Call a physician or poison control center immediately

Most important Direct contact with eyes may cause temporary irritation. Prolonged or repeated skin contact may

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment

needed.

Immediate medical attention is not required.

General information Note to physician, treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for

small fires only.

cause irritation.

Unsuitable extinguishing media

Specific hazards arising from the chemical

Do not use water in a jet. No information available.

Special protective equipment and precautions for firefighters

Fire fighting

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

equipment/instructions

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. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Specific methods None General fire hazards None

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Use personal protective equipment. Keep people away from and upwind of spill/leak.

Methods and materials for containment and cleaning up Dike to collect large liquid spills. Prevent leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material Place the bulk of any spilled material into properly labeled containers. Rinse any remaining material to sewage treatment facility. Clean up in accordance with all applicable regulations.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional **Ecological information** 

#### 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not take internally.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

#### 8. Exposure controls/personal protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components Type Value

**Biological limit values** 

Data Not available.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure

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limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

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.

Skin protection

Hand 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.

Other 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.

Respiratory protection Use a properly fitted, particulate filter respirator complying with an approved standard if a risk

assessment indicates this is necessary. 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.

Thermal hazards None.

General hygiene considerations

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid **Form** Paste Color Off-White Odor Slight Odor threshold Not available. Ha 9 (5% Solution) Melting point/freezing point No data available. Initial boiling point and boiling Not determined

range

Flash point > 220 °F (> 104°C)

Upper/lower flammability or explosive limits Flammability limit - lower (%) Not available Flammability limit - upper (%) Not available Explosive limit - lower (%) Not available Explosive limit - upper (%) Not available Vapor pressure Not applicable Vapor density Not applicable

Relative density 1.2

Solubility(ies)

Solubility (water) Completely soluble.

Partition coefficient

(n-octanol/water) Not determined. Auto-ignition temperature Not applicable Decomposition temperature Not available Viscosity, kinematic Not determined/

Other information

VOC (Weight %) < 1% by weight, < 12 g/L

#### 10. Stability and reactivity

Reactivity Not reactive under normal conditions

Chemical stability The product is stable.

Possibility of hazardous

reaction

Under normal conditions of storage and use, hazardous reactions will not occur.

Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong Oxidizing Agents.

Hazardous decomposition

products

Carbon oxides.

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#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Not a likely route

Skin contact May cause mild skin irritation.

Eye contact Causes Eye irritation

Ingestion No known significant effects or critical hazards.

Symptoms related to the physical, chemical and

Direct contact with eyes may cause temporary irritation. Prolonged or repeated

contact may dry skin and cause irritation

toxicological characteristics

Information on likely routes of exposure

**Acute Toxicity** 

Components Results Species

Skin corrosion/irritation Prolonged exposure may cause skin irritation.

Serious eye damage/eye

irritation

Expected to be slightly irritating.

Respiratory or skin sensitization

Respiratory sensitization

Inhalation of vapors or mists may cause irritation to the respiratory system.

Skin sensitization This product is not expected to cause skin irritation.

Germ cell mutagenicity Not considered a mutagenic hazard

Carcinogenicity No component of this product is identified as a probable, possible, or confirmed carcinogen by

IARC, NTP, Monographs, or OSHA.

Reproductive toxicity

No known significant effects or critical hazards.

Specific target organ toxicity

Not expected to be a hazard. Single exposure Not expected to be a hazard. Repeated exposure **Aspiration Hazard** Not expected to be a hazard

Chronic effects Not Classified. **Further information** None Provided.

#### 12. Ecological information

**Ecotoxicity** 

Product/ingredient name Results Species **Exposure** 

Persistence and degradability Not Available. Bio accumulative potential Not Available. Mobility in soil Not determined.

Other adverse effects No known significant effects of critical hazards.

#### 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this **Disposal instructions** 

> 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers.

Local disposal regulations Not Applicable Hazardous waste code Not Applicable

#### 14. Transportation information

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DOT Not Regulated

**UN** number

**UN Proper Shipping Name** Transportation Hazard

classes

Packing group

IATA Not Regulated

**UN** number

**UN Proper Shipping Name** Transportation Hazard

classes

Packing group

**IMDG** Not Regulated

**UN** number

**UN Proper Shipping Name** Transportation Hazard classes

Packing group

**Environmental hazards** Marine polluntant

#### 15. Regulatory information

U.S. Federal regulations TSCA 12(b) - Chemical export notification: None required.

> TSCA 5(a)2 - Final significant new use rules: Not listed TSCA 5(a)2 - Proposed significant new use rules: Not listed

TSCA 5(e) - Substances consent order: Not listed

#### **US Federal Regulations**

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): None known

#### **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): None Known

US state regulations

California Prop 65 This product does not contain a chemical known to the State of California to cause cancer, birth

defects, or other reproductive harm.

International regulations

On inventory list (yes/no)\* Country(s) or region **Inventory Name** 

Canada DSL/NDSL Yes **United States & Puerto Rico** Toxic Substances Control Act (TSCA 8b) Yes

SDS US Oatey Pipe Joint Lubricant

#### 16. Other information, including date of preparation or last revision

Issue Date 12-May-2015

Revision Date -

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HMIS Rating Health: 1

Flammability: 0 Physical Hazards: 0

**Disclaimer** Oatey Inc. cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

Oatey Pipe Joint Lubricant SDS US



# SAFETY DATA SHEET

#### 1. Identification

Product identifier Oatey Purple Primer- NSF Listed for PVC and CPVC

Other means of identification

Product code 1402F

**Synonyms** Part Numbers: 30755(TV), 30756(TV), 30757(TV), 30758, 30759, 30927

Recommended use Joining PVC Pipes

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

**Emergency First Aid** 1-877-740-5015 Contact person MSDS Coordinator

# 2. Hazard(s) identification

Physical hazards Flammable liquids Category 2

Health hazards Acute toxicity, oral Category 4

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention 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 mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Oatey Purple Primer- NSF Listed for PVC and CPVC

SDS US

Storage Disposal

Hazard(s) not otherwise classified (HNOC)

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

#### Supplemental information

Not applicable.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Acetone	67-64-1	25-40
Cyclohexanone	108-94-1	25-40
Furan, Tetrahydro-	109-99-9	15-30
Methyl ethyl ketone	78-93-3	15-30

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighte Fire fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

General fire hazards

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
,		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
•		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
,		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
,		200 ppm	

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
,	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
,	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
-	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards	.,	
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
		250 ppm	
	TWA	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
		300 ppm	
	TWA	590 mg/m3	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	<del></del> .
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

200 ppm

#### Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

# Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

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<sup>\* -</sup> For sampling details, please see the source document.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne con

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid

Form Translucent liquid.

Color Purple
Odor Solvent.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling 151 °F (66.11 °C)

range

Flash point 14.0 - 23.0 °F (-10.0 - -5.0 °C)

**Evaporation rate** 5.5 - 8 **Flammability (solid, gas)** Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

(a)

11.8

1.8

Explosive limit - lower (%)
Explosive limit - upper (%)

Not available.Not available.

Vapor pressure

145 mm Hg @ 20 C

Vapor density

2.5

Relative density

0.84 +/- 0.02 @20°C

Solubility(ies)

Solubility (water)

Negligible

Partition coefficient (n-octanol/water)

Not available.

(II ootallon water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density 7 lb/gal

VOC (Weight %) 505 g/I SQACMD Method 24

#### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

No hazardous decomposition products are known.

## 11. Toxicological information

# Information on likely routes of exposure

Inhalation

May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eve irritation.

Ingestion

May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

#### Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	20 ml/kg
Inhalation		<b>u</b>
LC50	Rat	50 mg/l, 8 Hours
Oral		<b>3</b> ,
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-9	<del>3</del> 4-1)	5 5
Acute		
Dermal		
LD50	Rabbit	948 mg/kg
Inhalation		ů ů
LC50	Rat	8000 ppm, 4 hours
Oral		•• /
LD50	Rat	1540 mg/kg
		• •

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

#### Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure.

# IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

May be fatal if swallowed and enters airways.

Chronic effects

Prolonged inhalation may be harmful.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components

**Species** 

**Test Results** 

Acetone (CAS 67-64-1)

Aquatic

Fish

LC50

Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish

LC50

Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1) -0.24Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46 Methyl ethyl ketone (CAS 78-93-3) 0.29

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 14. Transport information

DOT

UN number

UN1993

UN proper shipping name

Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 26274 LBS, Acetone RQ = 13130 LBS)

Transport hazard class(es)

3

Subsidiary risk

Label(s)

Packing group

Class

Н

3

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

IATA

**UN** number UN1993

UN proper shipping name Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

Class 3 Subsidiary risk Packing group 11 Environmental hazards No. **ERG Code** 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

Class 3 Subsidiary risk Packing group 11 **Environmental hazards** 

Marine pollutant No. **EmS** F-E. S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

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#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1)

6532

Methyl ethyl ketone (CAS 78-93-3)

6714

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)

35 %WV

Methyl ethyl ketone (CAS 78-93-3)

35 %WV

#### **DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1)

6532 6714

Methyl ethyl ketone (CAS 78-93-3)

US state regulations

# US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

# US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

# US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

#### US, Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

27-May-2015

Revision date

01

Version #

Health: 2

HMIS® ratings

Flammability: 3

Physical hazard: 0

Oatey Purple Primer- NSF Listed for PVC and CPVC

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#### NFPA ratings



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

# **Datey**®

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier Oatey PVC Heavy Duty Clear or Gray Cement

Other means of identification

SDS number 1102E

**Synonyms** Part Numbers: Clear 30850, 30863, 30876(TV), 30882, 31008(TV), 31011, 31950, 31951, 31952,

31953 Gray 30349, 31093, 31094, 31095, 31105, 31118, 31978, 31979, 31980, 31981, 32050,

32051, 32052, 32210, 32211

Recommended use Joining PVC Pipes
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

**Transport Emergency** Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

#### 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a

well-ventilated area. 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 mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective

gloves/protective clothing/eye protection/face protection.

Response Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If

eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash

before reuse. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

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#### Hazard(s) not otherwise classified (HNOC)

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

#### Supplemental information

Not applicable.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Furan, Tetrahydro-	109-99-9	30-60
2-Propanone	67-64-1	10-30
Cyclohexanone	108-94-1	10-30
Polyvinyl chloride	9002-86-2	10-30
Methyl ethyl ketone	78-93-3	5-10
Colloidal silicon dioxide	112945-52-5	1-5

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin Skin contact irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation.

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May

pulmonary edema and pneumonitis.

cause redness and pain.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Eye contact

Ingestion

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Specific methods General fire hazards In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

#### **Environmental precautions**

7. Handling and storage Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

Value

Form

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

U.S. - OSHA
Components

Components	1360	value	
Colloidal silicon dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	Unspecified.
		20 mppcf	Unspecified.
US. OSHA Specifically Regulated	Substances (29 CFR 1910.1001-	1050)	
Components	Туре	Value	
Polyvinyl chloride (CAS 9002-86-2)	STEL	5 ррт	
,	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.10	encode Aug. Supple	
Components	Туре	Value	Form
2-Propanone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
,		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
		200 ppm	

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Type

# US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
		200 ppm	
Polyvinyl chloride (CAS 9002-86-2)	PEL	5 mg/m3	Respirable fraction.
US. OSHA Table Z-3 (29 CFR 1910.	.1000)	15 mg/m3	Total dust.
Components	Туре	Value	
Colloidal silicon dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	
JS. ACGIH Threshold Limit Values			_
Components	Туре	Value	Form
2-Propanone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	
	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Polyvinyl chloride (CAS 9002-86-2)	TWA	1 mg/m3	Respirable fraction.
U.S NIOSH			
Components	Туре	Value	Form
Colloidal silicon dioxide (CAS 112945-52-5)	REL	6 mg/m3	Unspecified.
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
2-Propanone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Colloidal silicon dioxide CAS 112945-52-5)	TWA	6 mg/m3	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
103-33-3)		050	
109-99-9)		250 ppm	
103-33-31	TWA	590 mg/m3	
		590 mg/m3 200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	TWA STEL	590 mg/m3	
Methyl ethyl ketone (CAS	STEL	590 mg/m3 200 ppm 885 mg/m3 300 ppm	
Methyl ethyl ketone (CAS		590 mg/m3 200 ppm 885 mg/m3	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
2-Propanone (CAS 67-64-	1)50 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Wash hands after handling and before eating.

#### 9. Physical and chemical properties

**Appearance** Opaque.or Translucent.

Liquid. Physical state **Form** Liquid. Gray or Clear. Color

Odor Solvent. Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Initial boiling point and boiling 151 °F (66.11 °C)

range

Flash point 14.0 - 23.0 °F (-10.0 - -5.0 °C)

**Evaporation rate** 

Oatey PVC Heavy Duty Clear or Gray Cement 920700 Version #: 02 Revision date: 15-December-2014 Issue date: 04-August-2014 Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

145 mm Hg @ 20 C Vapor pressure

Vapor density 2.5

Relative density 0.88 - 0.92

Solubility(ies)

Negligible Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity 1200 - 2500 cP

Other information

**Bulk density** 7.5 lb/gal

VOC (Weight %) 481 q/I SQACMD Method 304

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Vapors have a narcotic effect and may cause

headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause

irritation to the respiratory system.

Skin contact Causes skin irritation.

Eye contact Causes serious eve irritation.

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

#### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components **Test Results Species** 

Cyclohexanone (CAS 108-94-1)

Acute Dermal

LD50 Rabbit 948 mg/kg

Inhalation

Rat LC50 8000 ppm, 4 hours

Oatey PVC Heavy Duty Clear or Gray Cement

SDS US

920700 Version #: 02 Revision date: 15-December-2014 Issue date: 04-August-2014 Components Species Test Results

Oral

LD50 Rat 1540 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer. In 2012 USEPA Integrated Risk Information System (IRIS)

reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure. This product contains polyvinyl chloride (PVC) that is not a fabricated product, and is therefore, defined and regulated as a toxic and hazardous substance under 29 C.F.R. §

1910.1017 due to the presumed presence of residual vinyl chloride monomer. The concentrations of residual vinyl chloride calculated to be contained in this product are well below the threshold for

classification in accordance with 29 C.F.R. § 1910.1200.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Colloidal silicon dioxide (CAS 112945-52-5)

Cyclohexanone (CAS 108-94-1)

Polyvinyl chloride (CAS 9002-86-2)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Respiratory tract irritation. Narcotic effects.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

#### 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

 Partition coefficient n-octanol / water (log Kow)

 2-Propanone (CAS 67-64-1)
 -0.24

 Cyclohexanone (CAS 108-94-1)
 0.81

 Furan, Tetrahydro- (CAS 109-99-9)
 0.46

 Methyl ethyl ketone (CAS 78-93-3)
 0.29

Mobility in soil No data available.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

UN number UN1133 UN proper shipping name Adhesives

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions T11, TP1, TP8, TP27

Packaging exceptions 150
Packaging non bulk 201
Packaging bulk 243

IATA

UN number UN1133 UN proper shipping name Adhesives

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1133 UN proper shipping name ADHESIVES

Transport hazard class(es)

Class 3
Subsidiary risk Packing group ||
Environmental hazards

Marine pollutant No.

EmS F-E, S-D

Annex II of MARPOL 73/78 and

the IBC Code

Transport in bulk according to Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

Central nervous system

Liver Blood Flammability

#### CERCLA Hazardous Substance List (40 CFR 302.4)

2-Propanone (CAS 67-64-1) LISTED
Cyclohexanone (CAS 108-94-1) LISTED
Furan, Tetrahydro- (CAS 109-99-9) LISTED
Methyl ethyl ketone (CAS 78-93-3) LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

2-Propanone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

2-Propanone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

2-Propanone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

#### US state regulations

#### US. Massachusetts RTK - Substance List

2-Propanone (CAS 67-64-1)

Colloidal silicon dioxide (CAS 112945-52-5)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

#### US. New Jersey Worker and Community Right-to-Know Act

2-Propanone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3) Polyvinyl chloride (CAS 9002-86-2)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-Propanone (CAS 67-64-1)

Colloidal silicon dioxide (CAS 112945-52-5)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

#### US. Rhode Island RTK

2-Propanone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. This product contains trace amounts of chemicals known to the state of California to cause cancer. Under normal use conditions, exposure to these chemicals at levels above the State of California "No significant Risk Level" (NSRL) are unlikely. The use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 8 will minimize exposure levels to these chemicals.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

#### 16. Other information, including date of preparation or last revision

Issue date 04-August-2014
Revision date 15-December-2014

Version # 02

United States & Puerto Rico

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

available.

Oatey PVC Heavy Duty Clear or Gray Cement

SDS US

Yes

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



# SAFETY DATA SHEET

**SECTION 1: IDENTIFICATION** 

PRODUCT NAME: ODOR SORB

SUPPLIER'S NAME & ADDRESS:

**USE**: Odor neutralization

WEST PENETONE INC. 11411 160 STREET EDMONTON, AB T5M 3T7

**EMERGENCY TELEPHONE NUMBERS:** 

WEST PENETONE:

(780) 454-3919

**CANUTEC:** 

(613) 996-6666

#### **SECTION 2: HAZARDS IDENTIFICATION**

Irritant to eyes and skin. May be harmful if swallowed.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS							
1,2-Propylene Glycol Poly(oxy-1,2-ethanediyl), .alphaphenylomega	<u>%</u> 1-5 1-5	<u>CAS # :</u> 57-55-6 9004-78-8	ACGIH TLV (TWA) : None Not available	LD50 OF MATERIAL Rat-oral 20,000mg/kg Rat-oral 5600mg/kg	Not available Not available		
hydroxy- Tetrasodium iminodisuccinate	1-5	144538-83- 0	None	Rat-oral >2000mg/kg	Not available		

#### **SECTION 4: FIRST AID MEASURES**

EYE CONTACT: Flush with plenty of water for 15 minutes. Contact physician if irritation persists or develops.

SKIN CONTACT: Wash with soap and water. Consult physician if irritation develops or persists.

INHALATION: Not applicable

INGESTION: Do not induce vomiting. Drink plenty of water and contact physician immediately.

#### **SECTION 5: FIRE FIGHTING MEASURES**

MEANS OF EXTINCTION: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Decomposition products may include oxides of carbon.

SPECIAL PRECAUTIONS FOR FIREFIGHTERS: Not applicable

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### SPILL CONTROL MEASURES:

For small spills, dilute with water and mop up or absorb with an inert dry materials and place in an appropriate waste disposal container. For large spills, do not allow product to enter drains. Contain and collect spillage with absorbent material and proceed as above.

#### SECTION7: HANDLING AND STORAGE

#### STORAGE AND HANDLING PROCEDURES:

Keep container closed when not in use. Keep from freezing.

Page 2 of 3 Date prepared: September 22, 2014

MSDS: Odor Sorb SDS EN

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

**EXPOSURE LIMITS:** 

See Section 3

PERSONAL PROTECTION:

Splash proof goggles. Chemical-resistant gloves.

ENGINEERING CONTROLS: No special measures required.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: VAPOR PRESSURE, KPa AT 20°C:

Colorless to light amber liquid Not available

ODOR VAPOR DENSITY (Air = 1):

Odorless
ODOR THRESHOLD:
Not available
SPECIFIC GRAVITY AT 20°C:

Not applicable 1.02

pH: SOLUBILITY IN WATER:

10.5 Complete

FREEZING POINT: COEFFICIENT OF WATER/OIL DISTRIBUTION:

Approx. 0°C Not available

BOILING POINT: AUTO IGNITION TEMPERATURE:

Approx. 100°C Not available

FLASH POINT: DECOMPOSITION TEMPERATURE:

None

EVAPORATION RATE, acetone = 1:

Not available

Not available

Not available

FLAMMABILITY (SOLID, GAS): FLAMMABLE LIMITS :

Not applicable UPPER: Not available LOWER: Not available

# SECTION 10: STABILITY AND REACTIVITY

#### CONDITIONS OF STABILITY:

Product is stable

# INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Oxidizing materials, bases or acids

**REACTIVITY:** 

Not reactive under normal conditions

**HAZARDOUS DECOMPOSITION PRODUCTS:** 

Oxides of carbon

POSSIBILITY OF HAZARDOUS REACTIONS:

None

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### **ROUTE OF ENTRY:**

Skin and eye contact (acute)

Ingestion

#### **ACUTE HEALTH EFFECTS:**

Irritant to skin and eyes. May be harmful if swallowed.

#### **EFFECTS OF CHRONIC EXPOSURE:**

None known

**EXPOSURE LIMITS AND TOXICITY:** 

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#### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No known significant effects or critical hazards.

PERSISTENCE AND DEGRADABILITY: COD - 293000 mg/L

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** 

Consult local and / or provincial authorities

#### **SECTION 14: TRANSPORT INFORMATION**

T.D.G. classification: Not regulated

#### **SECTION 15: REGULATORY INFORMATION**

WHMIS classification: D2B

DSL compliant

#### **SECTION 16: OTHER INFORMATION**

PREPARED BY: GREG CEBULIAK

DATE: September 22, 2014

TECH. SERVICES REPRESENTATIVE

VERSION: 1

**PHONE NO:** (780) 454-3919

SUPERCEDES: Not applicable

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES DONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF WEST PENETONE'S KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.



1. Product and Company Identification

PRODUCT NUMBER:

1244

**COMPANY PHONE:** 

1-800-241-8180

PRODUCT NAME:

ORANGE AID

**EMERGENCY TELEPHONE:** 

SYMBOL:

1-800-241-8180

PRODUCT DESCRIPTION:

All-purpose aerosol emulsion degreaser

INFOTRAC:

SIGNAL WORD:

DANGER

COMPANY INFORMATION:

and cleaner

PRO CHEM, INC. 1475 Bluegrass Lakes Parkway

Alpharetta, GA 30004

1-800-535-5053

# 2. Hazards Identification

GHS CLASSIFICATION: Flammable aerosols: Category 1 Sensitization, skin: Category 1

Hazardous to the aquatic environment, acute hazard: Category 2

Hazardous to the aquatic environment, long-term hazard:

Category 2

OSHA defined hazards: Not classified.

HAZARD STATEMENTS:

Extremely flammable aerosol. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.

Response: If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

None known.

SUPPLEMENTAL INFORMATION:

None.

CAS	0/ 50//14/50/50
The state of the s	% BY WEIGHT
	2.5-10
<b>74-</b> 98-6	2.5-10
106-97-8	1-2.5
	90-100
<del></del>	90-100
	74-98-6 106-97-8

# 4. First Aid Measures

# **EMERGENCY OVERVIEW**

GENERAL: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Rinse with water. Get medical attention if irritation develops and persists.

In case of eczema or other skin disorders: Seek medical attention and take along these instructions. SKIN:

INHALATION:

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center immediately. Call a physician if symptoms develop or persist.

INGESTION:

In the unlikely event of swallowing contact a physician or poison control center. Rinsemouth.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Dermatitis. Rash. May cause an allergic skin reaction.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

# 5. Fire Fighting Measures

# SUITABLE FIRE EXTINGUISHING MEDIA:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**UNSUITABLE FIRE EXTINGUISHING MEDIA:** 

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

# SPECIFIC FIRE-FIGHTING METHODS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire areaif you can do so without risk. Containers should be cooled with water to prevent vapor

Product Name: ORANGE AID

Product Number: 1244 Revision Date: 2/3/2016 Pro Chem Inc. Page 1 of 6

Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

# SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

# **GENERAL FIRE HAZARDS:**

EXTREMELY FLAMMABLE AEROSOL.

# 6. Accidental Release Measures

# PERSONAL PRECAUTIONS:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

# ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak, if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Scoop up used absorbent into drums or other appropriate container. For waste disposal, see Section 13 of the SDS. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage, if safe to do so. Avoid discharge into drains, watercourses or onto the ground.

# 7. Handling and Storage

### SAFE HANDLING:

Eliminate all sources of ignition. Will ignite if exposed to intensive heat or open air. Vapors may form explosive mixtures with air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment.

# SAFE STORAGE & INCOMPATIBILITIES:

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate, or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in original tightly closed container. Store in a well-ventilated place. Refrigeration recommended. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA30B).

Occupational exposure limits			
US. OSHA Table Z-1 Limits for Air Contaminants (29 C	FR 1910.1000)		
COMPONENTS	TYPE	VALUE	
Propane (CAS 74-98-6)	PEL.	1800 mg/m3	<del></del>
		1000 ppm	
US. ACGIH Threshold Limit Values		тосо ррпп	
COMPONENTS	TYPE	VALUE	
Butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Chemical Hazards	0.22	тооо ррпп	
COMPONENTS	TYPE	VALUE	
Butane (CAS 106-97-8)	TWA		
, -,	1117	1900 mg/m3	
Propane (CAS 74-98-6)	TIALA	800 ppm	
riopano (orto 1400 o)	TWA	1800 mg/m3	
RIOLOGICAL LIMITA/ALLIE.		1000 ppm	

# **BIOLOGICAL LIMIT VALUE:**

No biological exposure limits noted for the ingredient(s).

# **ENGINEERING CONTROLS:**

Ensure adequate ventilation, especially in confined areas.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Face shield is recommended. Wear safety glasses with side shields (or goggles).

**SKIN PROTECTION:** Wear appropriate chemical resistant gloves. Avoid contact with the skin. Wear appropriate chemical resistant clothing. Use of animpervious apron is recommended.

RESPIRATORY PROTECTION: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

THERMAL HAZARDS: Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS: When using, do not smoke. Avoid contact with eyes. Avoid contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical & Chemical Properties

Product Name: ORANGE AID

Product Number: 1244 Revision Date: 2/3/2016

APPEARANCE:		FLAMMABILITY(solid/gas):	Not available.
Physical State:	Gas.	Flammability Limit-lower (%)	1.9 % estimated
Form:	Aerosol.	Flammability Limit-upper (%):	9.5 % estimated
Color:	Not available.	Explosive Limit – lower (%):	Not available.
ODOR:	Not available.	Explosive Limit – upper (%):	Not available
ODOR THRESHOLD:	Not available.	VAPOR PRESSURE:	25.58 psig @70°F estimated
pH:	Not available.	VAPOR DENSITY:	Not available.
MELTING/FREEZING POINT:	Not available.	RELATIVE DENSITY:	Not available.
INITIAL BOILING POINT/RANGE:	212°F (100°C) estimated	SOLUBILITY (water):	Not available.
PARTITION COEFFICIENT (n- octanol/water):	Not available.	AUTO-IGNITION TEMP:	Not available.
VISCOSITY:	Not available.	DECOMPOSITION TEMP:	Not available
SPECIFIC GRAVITY:	0.95 estimated	FLASH POINT:	-156.0°F (-104.4°C) Propellant estimated
EVAPORATION RATE:	Not available.		100.5 1 (104.4 O) Flopeliant estimated

# 10. Stability & Reactivity Information

### REACTIVITY:

The product is stable and non-reactive under normal conditions of use, storage and transport.

# CHEMICAL STABILITY:

Risk of ignition.

# POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization does not occur.

INCOMPATIBLE MATERIALS:

Oxygen.

CONDITIONS TO AVOID:

Exposure to air. Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**DECOMPOSITION PRODUCTS:** 

No hazardous decomposition products are known.

# 11. Toxicological Information

# PRIMARY ROUTE OF ENTRY:

EYES: Direct contact with eyes may cause temporary irritation.

SKIN: May cause an allergic skin reaction.

INHALATION: No adverse effects due to inhalation are expected.

INGESTION: Expected to be a low ingestion hazard.

# SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

ACUTE TOXICITY:

May cause an allergic skin reaction. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

PRODUCT SPECIES TEST RESULTS

<del></del>	0. 50.50	IESI KESULIS
19 OZ ORANGE AID LB 12PK (CAS Mixture)		100,712002,0
Acute		4
Dermal		
LD50	Rat	41361 mm/lin
Inhalation		41361 mg/kg
LC50	Rat	13160 mg/l/4h
COMPONENTS	SPECIES	TEST RESULTS
D   (0.40,400 = 0.)		ILGI KESULIS

Butane (CAS 106-97-8)

Acute Inhalation

LC50

Mouse

1237 mg/l, 120 Minutes 52 %, 120 Minutes

Rat 1355 mg/l

Propane (CAS 74-98-6)

Acute

Inhalation LC50

Mouse

1237 mg/l, 120 Minutes 52 %, 120 Minutes

Rat

1355 mg/l 658 mg/l/4h

\* Estimates for product may be based on additional component data not shown.

SKIN CORROSION/IRRITATION:

Not applicable. Prolonged skin contact may cause temporary irritation.

SERIOUS EYE DAMAGE/IRRITATION:

Direct contact with eyes may cause temporary irritation.

RESPIRATORY SENSITIZATION:

Not available.

# SKIN SENSITIZATION:

Product Name: ORANGE AID

Product Number: 1244

Revision Date: 2/3/2016

Pro Chem Inc Page 3 of 6 May cause an allergic skin reaction.

**GERM CELL MUTAGENICITY:** 

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY:

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

REPRODUCTIVE TOXICITY:

This product is not expected to cause reproductive or developmental effects.

SPECIFIC TARGET ORGAN TOXICITY (single exposure):

Not classified

SPECIFIC TARGET ORGAN TOXICITY (repeated exposures):

Not classified.

**ASPIRATION HAZARD:** 

Not likely, due to the form of the product.

### 12. Ecological Information

**ECOTOXICITY:** 

Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

**PRODUCT** 19 OZ ORANGE AID LB 12PK (CAS Mixture)

Aquatic

Crustacea Fish

EC50 LC50 Daphnia Fish

8421 mg/L, 48 Hours 4337 mg/L, 96 Hours

**TEST RESULTS** 

\* Estimates for product may be based on additional component data not shown.

PERSISTENCE AND DEGRADABILITY:

No data is available on the degradability of this product.

**BIOACCUMULATIVE POTENTIAL:** 

No data available.

Partition coefficient n-octanol / water (log Kow)

Rutane

2.89 2.36

Propane MOBILITY IN SOIL:

No data available.

**OTHER ADVERSE EFFECTS:** 

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal Consideration

**DISPOSAL INSTRUCTIONS:** 

Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush.

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS:

Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES/UNUSED PRODUCTS:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

CONTAMINATED PACKAGING:

Empty containers should be taken to an approved waste-handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not reuse empty containers.

# 14. Transportation Information

DOT

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: Aerosols, flammable

TRANSPORT HAZARD CLASS(ES)

Class: 2.1 Subsidiary Risk: -

Label(s): 2.1 PACKING GROUP: Not applicable.

SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.

SPECIAL PROVISIONS: N82 **PACKAGING EXCEPTIONS: 306** PACKAGING NON BULK: None PACKAGING BULK: None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN NUMBER: UN1950

Product Name: ORANGE AID Product Number: 1244



Pro Chem Inc Page 4 of 6 UN PROPER SHIPPING NAME: Aerosols, flammable

TRANSPORT HAZARD CLASS(ES)

Class: 2.1

Subsidiary Risk: -Label(s): 2.1

PACKING GROÙP: Not applicable. **ENVIRONMENTAL HAZARDS: Yes** 

ERG CODE: 10L

SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.

OTHER INFORMATION:

PASSENGER AND CARGO AIRCRAFT: Allowed.

CARGO AIRCRAFT ONLY: Allowed. PACKAGING EXCEPTIONS: LTD QTY

**IMDG** 

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS

TRANSPORT HAZARD CLASS(ES)

Class: 2.1 Subsidiary Risk: -

Label(s): 2.1 PACKING GROUP: Not applicable. **ENVIRONMENTAL HAZARDS:** 

Marine pollutant: Yes

EmS: F-D, S-U

SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.

PACKAGING EXCEPTIONS: LTD QTY

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 and the IBC CODE:

Not applicable.

# 15. Regulatory Information

# **US FEDERAL REGULATIONS:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**CERCLA/SARA Hazardous Substances:** 

Notapplicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

# SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA):

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

# OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)

Not regulated.

### **US STATE REGULATIONS**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Propane (CAS 74-98-6)

Butane (CAS 106-97-8)

US. Pennsylvania Worker and Community Right-to-Know Law Butane (CAS 106-97-8)

Product Name: ORANGE AID Product Number: 1244

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Pro Chem Inc Page 5 of 6 Propane (CAS 74-98-6) US. Rhode Island RTK Butane (CAS 106-97-8) Propane (CAS 74-98-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country(s) or region	Inventory name On inventory (y	no(no)*
Australia	Australian Inventory of Chemical Substances (AICS)	
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
	of this product comply with the inventory requirements administered by the governing country(s)	Yes
A "No" indicates that one or more com country(s).	ponents of the product are not listed or exempt from listing on the inventory administered by the governing	

# 16. Other Information

N/A = Not Applicable; N/D = Not Determined

### DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

Product Name: ORANGE AID Product Number: 1244

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Multi-Surface Cleaner

Prepared to U.S. OSHA, ANSI, & Canadian WHMIS Standards

DM20073

# SECTION 1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED): Multi-Surface Cleaner

SYNONYMS: None Mixture CAS#:

1.2 PRODUCT USE: Cleaning agent

CHEMICAL SHIPPING NAME/CLASS: Non-Regulated Material

U.N. NUMBER:

1.3 NORTH AMERICA:

MANUFACTURER'S NAME: **Tennant Company** 

ADDRESS: 701 North Lilac Drive, P.O. Box 1452, Minneapolis, MN 55440-1452

**BUSINESS PHONE:** 1-763-540-1200 info@tennantco.com EMAIL: WEB SITE INFORMATION: www.orbio.com

**1.4 EMERGENCY PHONE NUMBERS:** 1-800-424-9300 (CHEMTREC - 24 Hrs)

DATE OF CURRENT REVISION: March 25, 2014

DATE OF LAST REVISION: New

# **SECTION 2. HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW:** This product is a clear colorless liquid with no odor.

Health Hazards: Under normal conditions of intended use this material does not pose a risk to health. Eye contact

or prolonged skin contact may cause irritation.

Flammability Hazards: This product is a Non-Flammable liquid.

Reactivity Hazards: None known

Environmental Hazards: The Environmental effects of this product have not been investigated. Release of this

product is not anticipated to have adverse effects in the aquatic environment.

US DOT SYMBOL(S) CANADA (WHMIS) SYMBOL(S) GHS Hazard Symbol(s)

Not Controlled Non-Regulated Material None

Signal Word: None

# 2.1 GHS LABELING AND HAZARD CLASSIFICATION:

This product does not meet the definition of a hazardous substance or preparation as defined by the OSHA and described in 29 CFR 1910.1200(d)

# Component(s) Contributing to Classification(s)

None

### 2.2 LABEL ELEMENTS

# GHS Hazard Classification(s):

None

### Hazard Statement(s): Precautionary Statement(s):

None None

### 2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

### ACUTE:

**INHALATION:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

CONTACT WITH SKIN: Under normal conditions of intended use, this material is not expected to be a skin hazard. Prolonged exposure may cause skin irritation.

EYE CONTACT: Contact with eyes may cause irritation with redness and tearing.

INGESTION: Under normal conditions of intended use, this material is not expected to be an ingestion hazard.

Ingestion may cause gastrointestinal irritation.

**CHRONIC:** None known

**Tennant Company** Page 1 of 6





# Multi-Surface Cleaner

TARGET ORGANS: Acute: None known Chronic: None known

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

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Water	99.95%	7732-18-5	None
Sodium Hydroxide	0.05%	1310-73-2	[Xi] Irritant
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).			

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

# 4. FIRST-AID MEASURES

# 4.1 DESCRIPTION OF FIRST AID MEASURES:

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If this product is swallowed, call physician or poison control center for treatment advice. Do not induce vomiting unless told to do so by a poison control center or physician. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If transporting take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

# 4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause irritation with redness and tearing. Prolonged skin exposure may cause mild irritation.

# 4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

# **SECTION 5. FIRE-FIGHTING MEASURES**

# 5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray:YesCarbon Dioxide:YesFoam:YesDry Chemical:YesHalon:YesOther:Any "C" Class

# **5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Not considered a fire or explosion hazard.

<u>Explosion Sensitivity to Mechanical Impact</u>: No Explosion Sensitivity to Static Discharge: No

FLASH POINT: Non-Flammable

**AUTOIGNITION TEMPERATURE:** Not Applicable

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA

# 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

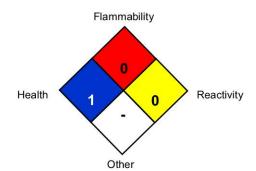
Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.





# Multi-Surface Cleaner

### NFPA RATING SYSTEM



# HMIS RATING SYSTEM HAZARDOUS MATERIAL IDENTIFICATION SYSTEM HEALTH HAZARD (BLUE) 1 FLAMMABILITY HAZARD (RED) 0 PHYSICAL HAZARD (YELLOW) 0 PROTECTIVE EQUIPMENT EYES RESPIRATORY HANDS BODY See Sect 8 For Routine Industrial Use and Handling Applications

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

# 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls

# **6.2 ENVIRONMENTAL PRECAUTIONS:**

Keep spilled material out of all sewers and open bodies of water.

# **6.3 SPILL AND LEAK RESPONSE:**

Stop the flow of material, if this can be done safety. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces. (see Section 13, Disposal Considerations).

# **SECTION 7. HANDLING and STORAGE**

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

# 7.2 STORAGE AND HANDLING PRACTICES:

Store in original container. Store in sealed containers to maintain efficacy of solution. See technical bulletin for specific container storage information.

### 7.3 SPECIFIC USES:

Various uses

# SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **8.1 EXPOSURE PARAMETERS:**

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Sodium Hydroxide	1310-73-2	2 mg/m³	2 mg/m³

# **8.2 EXPOSURE CONTROLS:**

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.

**RESPIRATORY PROTECTION:** Not required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.





# Multi-Surface Cleaner

**EYE PROTECTION:** Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

**HAND PROTECTION:** Chemical resistant gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Not normally required when using this product. If necessary, refer to appropriate Standards of Canada, or appropriate U.S. OSHA Standards described in 29 CFR 1910.136.

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

# 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: Clear colorless liquid with no odor

**ODOR:** No odor

**ODOR THRESHOLD:** Not Applicable

**pH**: 10.0 - 11.50

MELTING/FREEZING POINT: 32°F (0°C)

**BOILING POINT:** 212°F (100°C0 **FLASH POINT:** Not Applicable

**EVAPORATION RATE (n-BuAc=1):** Not Available **FLAMMABILITY (SOILD, GAS):** Not Applicable

UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available

VAPOR DENSITY: Not Available RELATIVE DENSITY: Not Available SPECIFIC GRAVITY: Not Available SOLUBILITY IN WATER: Soluble WEIGHT PER GALLON: Not Available

PARTITION COEFFICENT (n-octanol/water): Not Available

**AUTO-IGNITION TEMPERATURE:** Not Applicable **DECOMPOSITION TEMPERATURE:** Not Available

VISCOSITY: 0.001 Pas@ 20°C 9.2 OTHER INFORMATION:

No additional information available

# SECTION 10. STABILITY and REACTIVITY

# 10.1 REACTIVITY:

None known

### 10.2 STABILITY:

Stable under conditions of normal storage and use.

# 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

# **10.4 CONDITIONS TO AVOID:**

Avoid freezing and excessive temperatures

# 10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

None known

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of carbon

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

# **TOXICITY DATA:**

Sodium Hydroxide CAS# 1310-73-2 Draize test, rabbit, eye: 400 ug Mild Draize test, rabbit, eye: 1% Severe

Draize test, rabbit, eye: 50 ug/24H Severe





Multi-Surface Cleaner

Draize test, rabbit, eye: 1 mg/24H Severe Draize test, rabbit, skin: 500 mg/24H Severe

**SUSPECTED CANCER AGENT:** Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** This product is not irritating to skin, eyes or respiratory system. **SENSITIZATION TO THE PRODUCT:** This product is not a skin and respiratory sensitizer

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

# **SECTION 12. ECOLOGICAL INFORMATION**

### 12.1 TOXICITY:

No toxicity data available

# 12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

### 12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

# 12.4 MOBILITY IN SOIL:

No specific data available on this product.

### 12.5 OTHER ADVERSE EFFECTS:

This product is not expected to be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

# **13.1 WASTE TREATMENT METHODS:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada

# **SECTION 14. TRANSPORTATION INFORMATION**

# US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14. 1 UN IDENTIFICATION NUMBER: None

**14.2 PROPER SHIPPING NAME:**Non-Regulated Material

14.3 HAZARD CLASS NUMBER and DESCRIPTION: None
14.4 PACKING GROUP: NA
DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

14.5 ENVIRONMENTAL HAZARDS: (RQ QUANTITY) None

**MARINE POLLUTANT:** The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.6 SPECIAL PRECAUTION FOR USER: Nor

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

# **SECTION 15. REGULATORY INFORMATION**

# 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE: UNITED STATES REGULATIONS:

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.





# Multi-Surface Cleaner

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Sodium Hydroxide CAS# 1310-73-2 1,000 Lbs RQ

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** This chemical is regulated 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.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are not on the Proposition 65 Lists.

# **CANADIAN REGULATIONS:**

**CANADIAN DSL/NDSL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

# CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is Not Controlled, per WHMIS Controlled Product Regulations

# **SECTION 16. OTHER INFORMATION**

# ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

PREPARED BY: Paul Eighrett - (GHS MSDS Compliance PLUS)

DATE OF PRINTING: March 25, 2014

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Tennant Company assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Tenant Company assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

**END OF SDS SHEET** 





MultiMicro™ 200

DM20071Rev.B

Prepared to U.S. OSHA, ANSI, & Canadian WHMIS Standards

# SECTION 1. PRODUCT IDENTIFICATION

MultiMicro™ 200 1.1 TRADE NAME (AS LABELED):

SYNONYMS: None Mixture CAS#: 1.2PRODUCT USE: Antimicrobial

CHEMICAL SHIPPING NAME/CLASS: Non-Regulated Material

U.N. NUMBER:

1.3NORTH AMERICA:

MANUFACTURER'S NAME: **Tennant Company** 

701 North Lilac Drive, P.O. Box 1452, Minneapolis, MN 55440-1452 ADDRESS:

**BUSINESS PHONE:** 1-763-540-1200 info@tennantco.com EMAIL: WEB SITE INFORMATION: www.orbio.com

1-800-424-9300 (CHEMTREC - 24 Hrs) 1.4EMERGENCY PHONE NUMBERS:

DATE OF CURRENT REVISION: December 5, 2014

DATE OF LAST REVISION: New

# **SECTION 2. HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW:** This product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. This product is a clear colorless liquid with a slight chlorine odor.

Health Hazards: Under normal conditions of intended use this material does not pose a risk to health. This product has been classified by independent testing to be practically non-irritating to eyes and non-irritating to skin. Prolonged skin contact may cause irritation. Avoid breathing spray mist.

Flammability Hazards: This product is a Non-Flammable liquid.

Reactivity Hazards: None known

Environmental Hazards: The Environmental effects of this product have not been investigated. Release of this

product is not anticipated to have adverse effects in the aquatic environment.

CANADA (WHMIS) SYMBOL(S) US EPA SIGNAL WORD: GHS Hazard Symbol(s)

CAUTION! "Not Controlled" None

Signal Word: NONE

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:

This chemical is regulated 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.

# GHS LABELING AND HAZARD CLASSIFICATION:

This product does not meet the definition of a hazardous substance or preparation as defined by the OSHA and described in 29 CFR 1910.1200(d)

# Component(s) Contributing to Classification(s)

None

### 2.2 LABEL ELEMENTS

GHS Hazard Classification(s):

None

Hazard Statement(s): Precautionary Statement(s):

None None





MultiMicro™ 200

# 2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs. **ACUTE:** 

**INHALATION:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Avoid breathing spray mist.

**CONTACT WITH SKIN:** Under normal conditions of intended use, this material is not expected to be a skin hazard. In an independent study per U.S. EPA Guidelines OPPTS 870.2500 this product has been classified as non-irritating to the skin. Prolonged exposure may cause possible skin irritation.

**EYE CONTACT:** Contact with eyes is not expected to cause irritation. In an independent study per U.S. EPA Guidelines OPPTS 870.2400 this product has been classified as practically non-irritating to the eyes.

**INGESTION:** Under normal conditions of intended use, this material is not expected to be an ingestion hazard.

Ingestion of large quantities may cause gastrointestinal irritation.

**CHRONIC:** None known

TARGET ORGANS: Acute: Skin, Eyes Chronic: None known

# SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Water	99.98%	7732-18-5	None
Hypochlorous Acid	0.02%	7790-92-3	[Xi] Irritant
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers			

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

# 4. FIRST-AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**EYE CONTACT:** If product enters the eyes, hold eyes open and rinse slowly with water for 15 - 20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN CONTACT:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If this product is swallowed, call physician or poison control center for treatment advice. Do not induce vomiting unless told to do so by a poison control center or physician. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If transporting take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

# 4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Prolonged skin exposure may cause mild irritation.

# 4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

# **SECTION 5. FIRE-FIGHTING MEASURES**

# 5.1FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray:YesCarbon Dioxide:YesFoam:YesDry Chemical:YesHalon:YesOther:Any "C" Class

# 5.2UNUSUAL FIRE AND EXPLOSION HAZARDS:

Not considered a fire or explosion hazard.

Explosion Sensitivity to Mechanical Impact: No Explosion Sensitivity to Static Discharge: No

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FLASH POINT: Non-Flammable

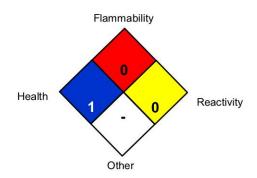
**AUTOIGNITION TEMPERATURE: Not Applicable** 

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA

# 5.3SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### NFPA RATING SYSTEM



### **HMIS RATING SYSTEM**

H	AZARDO	US MATERIAL IDE	NTIFICATIO	ON SYS	STEM	
	HEALTH HAZARD (BLUE)					
	FLAMM	ABILITY HAZARD	(RED)		0	
	PHYSICAL HAZARD (YELLOW)					
r		PROTECTIVE EC	UIPMENT	(0	$\Box$	
Γ	EYES	RESPIRATORY	HANDS	BOI	ΟY	
	See Sect 8 See Sect 8					
	For Rout	ine Industrial Use and	Handling A	plication	ns	

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

# SECTION 6. ACCIDENTAL RELEASE MEASURES

# 6.1 PERSONAL PRECAUTIONS. PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls

# **6.2 ENVIRONMENTAL PRECAUTIONS:**

Keep spilled material out of all sewers and open bodies of water.

# 6.3 SPILL AND LEAK RESPONSE:

Stop the flow of material, if this can be done safety. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces (see Section 13. Disposal Considerations).

# **SECTION 7. HANDLING and STORAGE**

# 7.1 PRECAUTIONS FOR SAFE HANDLING:

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

# 7.2 STORAGE AND HANDLING PRACTICES:

Store in original container. Store in sealed containers to maintain efficacy of solution. See technical bulletin for specific container storage information.

# 7.3SPECIFIC USES:

Various uses

# SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **8.1 EXPOSURE PARAMETERS:**

Chemical Name	CAS#	ACGIH TLV	OSHATWA
Hypochlorous Acid	7790-92-3	Not Listed	Not Listed





MultiMicro™ 200

# **8.2 EXPOSURE CONTROLS:**

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.

**RESPIRATORY PROTECTION:** Not required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

**EYE PROTECTION:** Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

**HAND PROTECTION:** Chemical resistant gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Not normally required when using this product. If necessary, refer to appropriate Standards of Canada, or appropriate U.S. OSHA Standards described in 29 CFR 1910.136.

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

# 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: Clear colorless liquid with a slight chlorine odor

**ODOR:** Slight chlorine odor

**ODOR THRESHOLD:** Not Applicable

pH: 5 - 6

MELTING/FREEZING POINT: 32°F (0°C)

**BOILING POINT:** 212°F (100°C) **FLASH POINT:** Not Applicable

EVAPORATION RATE (n-BuAc=1): Not Available FLAMMABILITY (SOLID, GAS): Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Applicable** 

VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available

VAPOR DENSITY: Not Available RELATIVE DENSITY: Not Available SPECIFIC GRAVITY: Not Available

**SOLUBILITY IN WATER:** Completely Soluble

**WEIGHT PER GALLON:** Not Available

PARTITION COEFFICENT (n-octanol/water): Not Available

**AUTO-IGNITION TEMPERATURE:** Not Applicable **DECOMPOSITION TEMPERATURE:** Not Available

VISCOSITY: 0.001 Pa s@ 20°C

OTHER INFORMATION:

No additional information available

# SECTION 10. STABILITY and REACTIVITY

# 10.1 REACTIVITY:

This product is a strong oxidizer. Do not mix with ammonia or acid which will produce chlorine gas.

### 10.2 **STABILITY**:

Stable under conditions of normal storage and use.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

### 10.4 CONDITIONS TO AVOID:

Avoid freezing and excessive temperatures

# 10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

None known

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of carbon

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# **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

# **TOXICITY DATA:**

Hypochlorous Acid CAS# 7790-92-3

No LD 50 Data Available

**SUSPECTED CANCER AGENT:** Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** In an independent study per U.S. EPA Guidelines OPPTS 870.2400 and OPPTS 870.2500 this product has been classified in a single exposure as practically non-irritating to the eyes and non-irritating to skin.

SENSITIZATION TO THE PRODUCT: This product is not a skin and respiratory sensitizer

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

# **SECTION 12. ECOLOGICAL INFORMATION**

# 12.1 TOXICITY:

No toxicity data available

# 12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

### 12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

# 12.4 MOBILITY IN SOIL:

No specific data available on this product.

# 12.5 OTHER ADVERSE EFFECTS:

This product is not expected to be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

# **13.1 WASTE TREATMENT METHODS:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada

# **SECTION 14. TRANSPORTATION INFORMATION**

# US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14. 1 UN IDENTIFICATION NUMBER: None

14.2 PROPER SHIPPING NAME: Non-Regulated Material

14.3 HAZARD CLASS NUMBER and DESCRIPTION:None14.4 PACKING GROUP:NADOT LABEL(S) REQUIRED:None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

14.5ENVIRONMENTAL HAZARDS: (RQ QUANTITY) None

**MARINE POLLUTANT:** The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.6SPECIAL PRECAUTION FOR USER: None

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.





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# **SECTION 15. REGULATORY INFORMATION**

# 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE: UNITED STATES REGULATIONS:

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Hypochlorous Acid, CAS# 7790-92-3, 1,000 Lbs RQ

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** This chemical is regulated 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.

<u>CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):</u> Ingredients within this product are not on the Proposition 65 Lists.

# **CANADIAN REGULATIONS:**

**CANADIAN DSL/NDSL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

# CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is "Not Controlled", per WHMIS Controlled Product Regulations

# **SECTION 16. OTHER INFORMATION**

# ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

PREPARED BY: Paul Eigbrett – (GHS MSDS Compliance PLUS)

DATE OF PRINTING: March 25, 2014

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Tennant Company assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Tenant Company assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

# **END OF SDS SHEET**



# Safety Data Sheet

24 Hour Emergency Phone Numbers Medical/Poison Control:

In U.S.: Call 1-800-222-1222

Outside U.S.: Call your local poison

control center

Transportation/National Response

Center:

1-800-535-5053 1-352-323-3500

NOTE: The National ResponseCenter emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

# 1. Identification

This Material Safety Data Sheet is available in American Spanish upon request. Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

**Product Name:** 

**Original Contact Cement Bottle** 

**Revision Date:** 

6/19/2015

Product UPC Number:

00102, 00105

Supercedes Date:

7/18/2013

Product Use/Class:

Contact Adhesive

SDS No:

00030202001

Manufacturer:

DAP Products Inc.

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non - emergency matters)

Preparer:

Regulatory Department

# 2. Hazards Identification

EMERGENCY OVERVIEW: DANGER!Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Keep container closed and away from heat, sparks, and open flame. Store away from caustics and oxidizers. Avoid breathing vapor. Avoid skin and eye contact. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Irritating to eyes, respiratory system and skin. Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. May affect the brain or nervous system causing dizziness, headache or nausea.

### **GHS Classification**

Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Carc. 1B, Eye Irrit. 2, Flam. Liq. 1, Muta. 1B, Skin Irrit. 2, STOT RE 2, STOT SE 3 NE, STOT SE 3 RTI

# Symbol(s) of Product



# Signal Word

Danger

### **GHS HAZARD STATEMENTS**

Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
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.
Carcinogenicity, category 1B	H350	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 dependent on ingredient form.
STOT, repeated exposure, category 2	H373	May cause damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated exposure <state conclusively<="" exposure="" if="" is="" it="" of="" route="" td=""></state></or>

# **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

proven that no other routes of exposure cause the hazard>.

smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P281 Use personal protective equipment as required.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P362 Take off contaminated clothing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

# **GHS SDS PRECAUTIONARY STATEMENTS**

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.
P270 Do no eat, drink or smoke when using this product.

# 3. Composition/Information on Ingredients

<u>Chemical Name</u> Toluene	<u>CAS-No.</u> 108-88-3	Wt. % GHS Symbols 25-50 GHS02-GHS03-	GHS Statements H225-270-302-304-315-332-335
Acetone	67-64-1	GHS07-GHS08 25-50 GHS02-GHS03- GHS07	-336-373 H225-270-319-336
Light aliphatic solvent naphtha	64742-89-8	10-25 GHS03-GHS06- GHS08	H270-304-331-340-350
n-Heptane	142-82-5	2.5-10 GHS02-GHS03- GHS07-GHS08	H225-270-304-315-336
Methylcyclohexane	108-87-2	1.0-2.5 GHS02-GHS03- GHS07-GHS08	H225-270-304-315-332-336

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

# 4. First-aid Measures

FIRST AID - INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. NOTE: Only trained personnel should administer artificial respiration or give oxygen.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. To remove from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

FIRST AID - EYE CONTACT: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

# 5. Fire-fighting Measures 🐘

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Vapors may form explosive mixtures with air. Containers may explode if exposed to extreme heat. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces. Cool fire-exposed containers using water spray.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam

# 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: NOTE: Review fire hazards before proceeding with clean up. Immediately eliminate sources of ignition. Keep people away from and upwind of spill/leak. Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Scrape up dried material and place into containers. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes.

# 7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDRENIDO NOT TAKE INTERNALLY. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. Provide adequate ventilation. Avoid heat, sparks and open flames. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use in well ventilated area. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. Wash thoroughly after handling. Do not use in areas where static sparks may be generated. Intentional

misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact.

STORAGE: Store away from sources of ignition and heat. Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Store away from caustics and oxidizers. Keep containers tightly closed.

# 8. Exposure Controls/Personal Protection

# Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Toluene Acetone	20 ppm TWA 500 ppm TWA	N.E. 750 ppm STEL	200 ppm TWA 1000 ppm TWA, 2400 mg/m3 TWA	300 ppm Ceiling N.E.
Light aliphatic solvent naphtha n-Heptane	N.E. 400 ppm TWA Heptane, all isomers	N.E. 500 ppm STEL Heptane, all isomers	N.E. 500 ppm TWA, 2000 mg/m3 TWA	N.E. N.E.
Methylcyclohexane	400 ppm TWA	N.E.	500 ppm TWA, 2000 mg/m3 TWA	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

### Personal Protection



RESPIRATORY PROTECTION: A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear and appropriate, properly fitted respirator (NIOSH approved) during and after application. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.



SKIN PROTECTION: Solvent-resistant gloves.



EYE PROTECTION: Goggles or safety glasses with side shields.



OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.



HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

A. O. Bridge

# 9. Physical and Chemical Properties

Appearance: Tan

Odor: Strong Solvent
Density, g/cm3: 0.85 - 0.85
Freeze Point, °C: Not Established
Solubility in Water: Not Established
Decomposition Temperature, °C: Not Established

Decomposition Temperature, °C: Boiling Range, °C:

Minimum Flash Point, °C: -4:

Evaporation Rate:

N.I. - N.I. -42

Faster Than n-Butyl Acetate

Physical State: Odor Threshold:

pH:

Viscosity (mPa.s):
Partition Coeff., n-octanol/water:

Explosive Limits, %:
Auto-Ignition Temperature, °C

Vapor Pressure, mmHg: Flash Method: Liquid

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Not Established Not Applicable

Not Established Not Established

N.I. - N.I.

Not Established No Information Pensky-Martens

Closed Cup

Vapor Density: Combustibility:

Heavier Than Air

Does not support combustion

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

# 10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** Keep away from open flames, hot surfaces and sources of ignition. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid contact with skin, eyes and clothing. Do not smoke.

**INCOMPATIBILITY:** Open flames, hot surfaces and sources of ignition. Keep away from strong oxidizing agents, heat and open flames. Exothermic reaction with strong acids. Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

# 11. Toxicological Information

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation of vapors may cause irritation of the nose, throat, lungs and respiratory tract. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT**: Harmful if absorbed through the skin. May cause skin irritation. Prolonged and repeated skin contact may cause dermatitis, drying and defatting due to the solvent properties.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

**EFFECT OF OVEREXPOSURE - INGESTION:** Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause gastrointestinal disturbances with dizziness and central nervous system depression. If ingested, may cause depressed respiration. Aspiration hazard if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

**CARCINOGENICITY:** No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, 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
108-88-3 Toluene

Oral LD50 636 mg/kg Rat Dermal LD50 8390 mg/kg Rabbit

Vapor LC50 12.5 mg/L Rat

67-64-1 Acetone 5250 mg/kg mouse >15688 mg/kg rabbit 50 mg/L Rat

64742-89-8 Light aliphatic solvent naphtha 5000 mk/kg Mouse 3000 mg/kg Rabbit > 4.96 mg/L Rat

5000 mg/kg Rat

3000 mg/kg Rabbit

> 29.29 mg/L Rat

108-87-2 Methylcyclohexane 2250 mg/kg Mouse 3072 mg/kg Rat 13.15 mg/L Rat

N.I. = No Information

142-82-5

# 12. Ecological Information

n-Heptane

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

# 13. Disposal Information ....

**DISPOSAL INFORMATION:** Residues and spilled material are hazardous waste due to ignitability. Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste. Liquids cannot be disposed of in a landfill. Do not flush into surface water or sanitary sewer system. Do not empty into drains. Do not re-use empty containers. The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container.

# 14. Transport Information

### SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT UN/NA Number: UN1133

DOT Proper Shipping Name: Adhesives, containing a flammable liquid

DOT Technical Name: N.A.

DOT Hazard Class: 3

Hazard SubClass: N.A.

Packing Group: III

# 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, Acute Health Hazard, Chronic Health Hazard

# SARA SECTION \$13:

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.Toluene108-88-3

# TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

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 CARCINOGENS

WARNING: This product contains chemicals known to the State of California to cause cancer.

# CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

# International Regulations: As follows -

# CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class Consumer Commodity

# 16. Other Information

Revision Date: 6/19/2015 Supersedes Date: 7/18/2013

Reason for revision: HazCom2012/GHS Conversion

Datasheet produced by: Regulatory Department

**HMIS Ratings:** 

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Health:	- 1	2	Flammability:	3	Reactivity:	0	Personal Protection:	X

VOC Less Water Less Exempt Solvent, g/L646.5

VOC Material, g/L:459

VOC as Defined by California Consumer Product Regulation, Wt/Wt%:53.8

# Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H270	May cause or intensify fire; oxidiser.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects <state conclusively="" exposure="" if="" is="" it="" no="" of="" of<="" other="" proven="" route="" routes="" td="" that=""></state>
	exposure cause the hazard>.
H350	May cause cancer.
H373	May cause damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated</or>
	exposure <state cause="" conclusively="" exposure="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" td="" that="" the<=""></state>
	hazard>.

# Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02	
GHS03	
GHS06	



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.