

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** 

**SUPER STRIP** 

Other means of identification

SDS number **Product code**  576N-66A

HIL00152

Recommended use

Stripper

Recommended restrictions

For Labeled Use Only DO NOT USE ON GLASS.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

**Address** 

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

Category 3

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

Environmental hazards

Hazardous to the aquatic environment, acute hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word

**Hazard statement** 

Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life.

**Precautionary statement** 

Prevention

Do not breathe 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. Avoid release to the

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

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all 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. Immediately call a poison

center/doctor. Take off contaminated clothing and wash it before reuse.

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

Material name: SUPER STRIP

SDS US

Disposal

Do not dispose of in storm drain. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

PERSONAL PROTECTIVE EQUIPMENT: For eyes use chemical safety goggles; for skin wear impervious rubber gloves, boots, and aprons where splashing of concentrate is a problem. Wear impervious/slip resistant boots such as Hillyard Stripping Boots while standing in the stripping solution.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Butoxyethanol		111-76-2	20 - < 30
Ethanolamine		141-43-5	5 - < 10
Sodium xylene sulfonate		1300-72-7	5 - < 10
POTASSIUM HYDROXIDE		1310-58-3	1 - < 3
Sodium metasilicate		6834-92-0	1 - < 3
Other components below reportable	levels		50 - < 60

# 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. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Headache. Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

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

**General information** 

If you feel unwell, seek medical advice (show the label where possible). 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.

# 5. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam. Water Spray or Fog. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

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

Specific hazards arising from the chemical

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.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

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

**General fire hazards** No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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

Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

# **Environmental precautions**

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

# 7. Handling and storage

#### Precautions for safe handling

Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Components	•	1000) Value	
Components	Туре	value	
Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Ethanolamine (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
US. ACGIH Threshold Limit Value	S	*1	
Components	Туре	Value	
Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Ethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Ethanolamine (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3	

Material name: SUPER STRIP

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

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

#### **Exposure guidelines**

US - California OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Butoxyethanol (CAS 111-76-2)

Skin designation applies.

US - Tennessee OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

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

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation 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

Avoid contact with eyes. Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Wear impervious/slip resistant boots such as Hillyard Stripping Boots

while standing in the stripping solution.

Respiratory protection

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. Chemical respirator with organic vapor cartridge. Use With Adequate Ventilation.

Thermal hazards

None known.

General hygiene considerations

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** 

Clear, colorless to slight amber liquid

Physical state

Liquid. Liquid.

Form

Colorless to slight amber.

Color Odor

range

Mild solvent odor

Odor threshold

Not available

Melting point/freezing point

13 - 14

Not applicable / Not available

Initial boiling point and boiling

213 °F (100.56 °C) Corr.

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate

< 1 Slower than 1 Ethyl ether = 1

Flammability (solid, gas)

Material name: SUPER STRIP

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Not available. Explosive limit - upper (%)

Vapor pressure 15.83 mm Hg

1.764 Air=1 Vapor density

1.052 at 77°F Relative density

Solubility(ies)

100 % Complete Solubility (water) Partition coefficient Not available

(n-octanol/water)

Not available Auto-ignition temperature Not available **Decomposition temperature** Not available Viscosity

Other information

Density 8.76 lb/gal **Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

VOC 33 % Concentrate

# 10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Material is stable under normal conditions. Hazardous polymerization does not occur.

81 - 86 %

Possibility of hazardous reactions

Percent volatile

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with

other chemicals.

Strong acids. Strong oxidizing agents. Oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Skin contact Causes severe skin burns. Harmful in contact with skin.

2-Butoxyethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye damage. Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Nausea, vomiting. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

#### Information on toxicological effects

In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and Acute toxicity

central nervous system effects. Harmful in contact with skin.

**Product Species Test Results** SUPER STRIP

**Acute** Inhalation

LC50 Guinea pig

6.135e+006 ppm, 6 Hours Mouse

319700 mg/l, 4 Hours 2745 ppm, 7 Hours

Material name: SUPER STRIP

Product Species **Test Results** Rat 1765 ppm, 4 Hours Components **Species Test Results** Butoxyethanol (CAS 111-76-2) Acute Oral LD50 Rat 560 mg/kg POTASSIUM HYDROXIDE (CAS 1310-58-3) **Acute** Oral LD50 Rat 273 mg/kg Sodium metasilicate (CAS 6834-92-0) **Acute** Oral LD50 Rat 1280 mg/kg Skin corrosion/irritation Causes severe skin burns and eye damage. Serious eye damage/eye Causes serious eye damage. irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. 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 Not classifiable as to carcinogenicity to humans. IARC Monographs. Overall Evaluation of Carcinogenicity Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

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

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** 

Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

**Product Test Results Species** SUPER STRIP Aquatic Fish LC50 Fish 1752.6577 mg/l, 96 hours estimated

Material name: SUPER STRIP SDS US

**Test Results** Components **Species** 

Butoxyethanol (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

Ethanolamine (CAS 141-43-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 114 - 196 mg/l, 96 hours

(Oncorhynchus mykiss)

POTASSIUM HYDROXIDE (CAS 1310-58-3)

Aquatic

Western mosquitofish (Gambusia affinis) 80 mg/l, 96 hours LC50 Fish

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butoxvethanol 0.83 Ethanolamine -1.31

No data available. Mobility in soil

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. 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.

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] 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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

14. Transport information

DOT

NA1760 **UN** number

UN proper shipping name Compound, Cleaning Liquid, (Potassium Hydroxide, Monoethanolamine)

Transport hazard class(es)

8 Class Subsidiary risk 8 Label(s) **Packing group** Ш

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

Transport in bulk according to

Material name: SUPER STRIP

the IBC Code

Not established. Annex II of MARPOL 73/78 and

HIL00152 Version #: 04 Revision date: 01-22-2021 Issue date: 11-17-2014



# 15. Regulatory information

**US** federal regulations

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

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

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

Not regulated.

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

POTASSIUM HYDROXIDE (CAS 1310-58-3)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

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)

# US state regulations

#### 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. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Butoxyethanol (CAS 111-76-2)

#### International Inventories

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

Canada Domestic Substances List (DSL)
Yes

Canada Non-Domestic Substances List (NDSL) No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply 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).

Material name: SUPER STRIP SDS US

Yes

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

 Issue date
 11-17-2014

 Revision date
 01-22-2021

Version # 04

4 18 2

HMIS® ratings Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all ricks associated with the use, miguse or disposal of this product. The buyer or user is

assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

Material name: SUPER STRIP

SDS US

HIL00152 Version #: 04 Revision date: 01-22-2021 Issue date: 11-17-2014

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

Product identifier

**RE-JUV-NAL** 

Other means of identification

SDS number

543N-29A

Product code

HIL00166

**Product registration** 

1839-169-1658

number

Recommended use

Disinfectant/Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Address

Company name

HILLYARD INDUSTRIES

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

Environmental hazards Haz

Hazardous to the aquatic environment, acute

Category 2

hazard

Hazardous to the aquatic environment,

Category 2

long-term hazard

**OSHA** defined hazards

Not classified.

Label elements





Signal word

Danger

**Hazard statement** 

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Collect spillage.

Material name: RE-JUV-NAL

SDS US

**Storage** 

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None known.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	2.170%
Octyl decyl dimethyl ammonium chloride		32426-11-2	1.627%
Didecyl dimethyl ammonium chloride		7173-51-5	0.814%
Dioctyl dimethyl ammonium chloride		5538-94-3	0.814%
Other components below reportable	elevels		94.59251008

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

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. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly. Drink water as a precaution. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Causes severe irritation and/or burns. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

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

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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Water fog. Foam. 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

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.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

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

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

**Environmental precautions** 

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, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid

prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS), DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in original container in a cool (temperature no lower than 50oF or higher than 120°F), dry and locked storage area inaccessible to children.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Biological limit values

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

Appropriate engineering

controls

Good general ventilation 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing. Wear appropriate chemical resistant clothing.

Respiratory protection

Not normally required with adequate ventilation. 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

None known.

General hygiene considerations

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

Clear, red liquid

Physical state

Liquid.

**Form** 

Liquid.

Color

Odor

pН

Red

Floral fragrance

Odor threshold

Not available 6 - 7 Concentrate

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

201 °F (93.89 °C)

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.67 mm Hg

Vapor density

0.6319 Air = 1

Relative density

1.002 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

**Viscosity** 

Not available

Other information

Density

8.34 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

91.5 - 92.5 %

VOC

0.68 %

# 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 Incompatible materials Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

# Information on toxicological effects

Acute toxicity

Product

Not known. **Species** 

RE-JUV-NAL	

**Acute** 

**Dermal** 

LD50 Rabbit 332100 mg/kg

**Test Results** 

Oral

LD50

Rat

9741 mg/kg

Material name: RE-JUV-NAL

SDS US HIL00166 Version #: 04 Revision date: 01-10-2020 Issue date: 03-11-2015

**Test Results** Components **Species** 

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

**Acute** 

Dermal

Rabbit 2730 ma/ka LD50

Oral

84 mg/kg LD50 Rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

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

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

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

Specific target organ toxicity single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not an aspiration hazard.

Aspiration hazard **Chronic effects** 

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Fish	LC50	Fish	58.9702 mg/l, 96 hours estimated
Crustacea	EC50	Daphnia	126.6858 mg/l, 48 hours estimated
Aquatic			
RE-JUV-NAL			
Product		Species	Test Results

Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-85-1)

**Aquatic** 

LC50 Fish

Striped bass (Morone saxatilis)

10.4 - 19.1 mg/l, 96 hours

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

Aquatic

Fish LC50 White sturgeon (Acipenser transmontanus)

0.001 - 0.01 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

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.

Material name: RE-JUV-NAL HIL00166 Version #: 04 Revision date: 01-10-2020 Issue date: 03-11-2015

# 13. Disposal considerations

Disposal instructions PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess

pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

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

CONTAINER DISPOSAL – Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. After rinsing container, offer empty metal drums or plastic containers for recycling if available or puncture and dispose of in a sanitary landfill or by incineration. RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

Not established.

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 or Exempt.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

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 1910.1001-1053)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Material name: RE-JUV-NAL SDS US

#### 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

(SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

**FIFRA** Information

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-169-1658, 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 products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently 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. If on skin or clothing: 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. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

#### **US** state regulations

# 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. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates that all components of this product comply 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
 03-11-2015

 Revision date
 01-10-2020

 Version #
 04

HMIS® ratings Health: 3 Flammabilit

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Material name: RE-JUV-NAL SDS US

#### **Revision information**

Hazard(s) identification: Response

Composition/information on ingredients: Component information

First-aid measures: Skin contact

First-aid measures: Most important symptoms/effects, acute and delayed

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Exposure controls/personal protection: Other Exposure controls/personal protection: PPE Symbols

Physical & Chemical Properties: Multiple Properties Stability and reactivity: Conditions to avoid Toxicological Information: Toxicological Data

Toxicological information: Symptoms related to the physical, chemical and toxicological

characteristics

Regulatory information: Toxic Substances Control Act (TSCA)

GHS: Classification

# The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

Product identifier PINK PEARL HAND SOAP

Other means of identification

SDS number

13SAM02038A

Product code

HIL00396

Recommended use

Hand Soap

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Address** 

Company name

HILLYARD INDUSTRIES

302 North Fourth St.

St. Joseph, MO 64501

**Contact person** 

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

accident involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**Environmental hazards** 

Not classified.

**OSHA** defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

**Hazard statement** 

The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention

Avoid contact with eyes

Response

If in eyes, flush with water for 15 minutes. If skin irritation or rash occurs, discontinue use.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

#### 3. Composition/information on ingredients

#### **Mixtures**

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

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

#### 4. First-aid measures

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

If skin irritation or rash occurs: Get medical advice/attention. Skin contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important Direct contact with eyes may cause temporary irritation. symptoms/effects, acute and

delayed Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

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

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

Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

Fire fighting Use standard firefighting procedures and consider the hazards of other involved materials. equipment/instructions

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. protective equipment and emergency procedures

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

**Environmental precautions** No special environmental precautions required.

7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, Store in original tightly closed container. Store away from incompatible materials (see Section 10 including any incompatibilities of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL. TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes.

Skin protection

Not applicable. Hand protection

Other

Not applicable.

Respiratory protection

Not applicable.

Thermal hazards

Not applicable.

General hygiene considerations

Avoid contact with eyes. Keep away from food and drink.

# 9. Physical and chemical properties

**Appearance** 

Opaque, viscous, pink solution.

Physical state

Liquid.

Form

Liquid.

Color

Pink

Odor

Almond odor

Odor threshold

Not available

pН

5 - 7

Melting point/freezing point Initial boiling point and boiling Not applicable / Not available 209 °F (98.33 °C) Corr.

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.55 mm Hg

Vapor density

0.6226 AIR=1

Relative density

1 at 77°F

Solubility(ies)

Solubility (water)

complete

Partition coefficient

Not available

(n-octanol/water)

Not available

Auto-ignition temperature **Decomposition temperature** 

Not available

**Viscosity** 

> 800 cP

Other information

8.35 lb/gal

Density **Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

97 - 99 %

voc

0 %

# 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 temperatures exceeding the flash point. Contact with incompatible materials. None known.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation

No adverse effects due to inhalation are expected.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Direct contact with eyes may cause temporary irritation.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not available. Acute toxicity

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Respiratory or skin

Not available.

sensitization

Not a respiratory sensitizer. Respiratory sensitization

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

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

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

US. National Toxicology Program (NTP) Report on Carcinogens

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. Aspiration hazard

Prolonged inhalation may be harmful. None known. **Chronic effects** 

#### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Test Results Product Species** PINK PEARL HAND SOAP Aquatic 1464.7211 mg/l, 48 hours estimated Crustacea EC50 Daphnia Fish LC50 Fish 1071.7949 mg/l, 96 hours estimated

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

Bioaccumulative potential

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

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

Dispose in accordance with all applicable regulations. Local disposal regulations

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

disposal company.

Material name: PINK PEARL HAND SOAP

SDS US HIL00396 Version #: 02 Revision date: 03-02-2017 Issue date: 05-15-2015

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

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). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

Not established.

the IBC Code

the IBC Code

# 15. Regulatory information

US federal regulations

This product is not known to be 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 or Exempt.

### 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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No 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.

#### Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)
US state regulations

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 that all components of this product comply 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

05-15-2015

Revision date

03-02-2017

Version #

02

**HMIS®** ratings

Health: 0

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** 

**TAKE DOWN (CHERRY)** 

Other means of identification

SDS number

584N072A HIL00466

Product code

Enzymatic Cleaner / Deodorizer

Recommended use

For Labeled Use Only

Recommended restrictions

Protect from Freezing

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

**Address** 

302 North Fourth St. St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

. Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**Environmental hazards** 

Not classified.

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

**Hazard statement** 

Avoid prolonged contact with skin. Avoid contact with open wounds or broken skin.

**Precautionary statement** 

Prevention

Observe good industrial hygiene practices. Wash hands after handling.

Response

First Aid: Inhalation: Move to fresh air. Call a physician if symptoms develop or persist. Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists. Eye contact: Rinse with water. Get medical attention if irritation develops and persists. Ingestion:

Rinse mouth. Get medical attention if symptoms occur.

Storage

Store away from incompatible materials.

**Disposal** 

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
C9-11 Alcohols Ethoxylated		68439-46-3	5 - < 10
Sodium xylene sulfonate		1300-72-7	1 ~ < 3
Other components below reg	portable levels		90 - 100

<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 Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

Treat symptomatically,

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

Water fog. Foam. 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

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

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

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

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities

Avoid prolonged exposure. Observe good industrial hygiene practices.

Store in tightly closed container. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS). Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**Biological limit values** 

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

Appropriate engineering

controls

No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Not normally needed.

Respiratory protection

Not normally needed.

Thermal hazards

None known.

General hygiene considerations

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** 

Hazy, colorless to light amber liquid

Physical state

Liquid.

**Form** 

Liquid.

Color

Colorless to light amber

Odor

Cherry odor

Odor threshold

Not available

Hq

6 - 8

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

211 °F (99.44 °C)

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup None to boiling

**Evaporation rate** 

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available. Not available.

Explosive limit - upper (%)

17.7 mm Hg

Vapor pressure Vapor density

0.6379 AIR=1

Relative density

1.009 at 77°F

Solubility(ies)

Solubility (water)

100 % complete

Partition coefficient

(n-octanol/water)

Not available

Auto-ignition temperature **Decomposition temperature**  Not available Not available

Viscosity

Not available

Other information

Density

8.40 lb/gal

**Explosive properties** 

Not explosive.

**Oxidizing properties** 

Not oxidizing.

Percent volatile

89 - 90 %

VOC

0 %

# 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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

# 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation.

Eye contact Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

Direct contact with eyes may cause temporary irritation.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Not known.

**Product** 

**Species** 

**Test Results** 

TAKE DOWN (CHERRY)

Acute

Dermal

LD50

Rabbit

165900 mg/kg

Oral

LD50

Rat

130900 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

Prolonged skin contact may cause temporary irritation.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

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

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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 exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** 

Prolonged inhalation may be harmful.

Material name: TAKE DOWN (CHERRY)

HIL00466 Version #: 04 Revision date: 08-23-2021 Issue date: 03-26-2015

# 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

C9-11 Alcohols Ethoxylated (CAS 68439-46-3)

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

2.9 - 8.5 mg/l, 48 hours

**Test Results** 

Fish

LC50

Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

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** 

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

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. None known.

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

Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not established.

#### 15. Regulatory information

US federal regulations

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

**Toxic Substances Control Act (TSCA)** 

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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Νo

chemical

SARA 313 (TRI reporting)

Not regulated.

Material name: TAKE DOWN (CHERRY)

HIL00466 Version #: 04 Revision date: 08-23-2021 Issue date: 03-26-2015

# 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

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

# **US state regulations**

#### 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

On inventory (yes/no)\* Country(s) or region Inventory name Domestic Substances List (DSL) No Canada Non-Domestic Substances List (NDSL) No Canada Toxic Substances Control Act (TSCA) Inventory No United States & Puerto Rico

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

03-26-2015 Issue date Revision date 08-23-2021

04 Version #

Health: 0 **HMIS®** ratings

Flammability: 0 Physical hazard: 0

No representations or warranties, either express or implied, of merchantability, fitness for a Disclaimer

> particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is

responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Hazard(s) identification: Disposal **Revision information** 

Physical & Chemical Properties: Multiple Properties

Material name: TAKE DOWN (CHERRY)

HIL00466 Version #: 04 Revision date: 08-23-2021 Issue date: 03-26-2015

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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).

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

Product identifier

I.D. 200

Other means of identification

SDS number

584N-107A

Product code

HIL00483

Recommended use

Multipurpose Degreaser For Labeled Use Only

Recommended restrictions

DO NOT USE ON GLASS

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

**Hazard statement** 

Causes skin irritation. Causes serious eye damage.

Precautionary statement

Prevention

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

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Storage

Store away from incompatible materials.

Disposal

Do not dispose of in storm drain. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or

equivalent). Then offer clean, dry container for recycling or reconditioning.

Material name: I.D. 200

HIL00483 Version #: 03 Revision date: 11-11-2021 Issue date: 01-29-2015

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid prolonged breathing of vapors. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Do not take internally. Keep container closed when not in use. Use only as directed: Improper dilution can lead to adverse health effects.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium Carbonate		497-19-8	3 - < 5
Sodium metasilicate		6834-92-0	3 - < 5
*Complex Surfactant Blend		Proprietary	1 - < 3
Other components below reportable	evels		80 - < 90

<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 Move to fresh air, Call a physician if symptoms develop or persist,

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

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

treatment needed

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions Specific methods

Move containers from fire area if you can do so without risk.

During fire, gases hazardous to health may be formed.

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

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

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

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

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

Material name: I.D. 200 HIL00483 Version #: 03 Revision date: 11-11-2021 Issue date: 01-29-2015 **Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid

prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Biological limit values

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

Appropriate engineering

controls

Good general ventilation 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. Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when

handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles,

or face shields.

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Avoid contact with the skin. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

Respiratory protection

Not normally required with adequate ventilation. 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

None known.

General hygiene considerations

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** 

Clear, green liquid

Physical state

Liquid. Liquid.

Form Color

Green

Odor

Green

Odor threshold

Lemon odor Not available

pH

40 5 40 5

1---

12.5 - 13.5

Melting point/freezing point

1992.2 °F (1089 °C) estimated

> 200.0 °F (> 93.3 °C) Tag Closed Cup

Not applicable / Not available

Initial boiling point and boiling

range

211 °F (99.44 °C)

Flash point

< 1 (ethyl ether = 1)

Evaporation rate

r (etriyi etrier – i

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.6 mm Hg

Vapor density

0.6234 AIR=1

Material name: I.D. 200

HIL00483 Version #: 03 Revision date: 11-11-2021 Issue date: 01-29-2015

Relative density

1.087 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

9.05 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties Percent volatile

Not oxidizing. 87 - 88.5 %

VOC

0.39 % estimated

0 %

# 10. Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

**Chemical stability** 

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials. Do not mix with other chemicals.

Incompatible materials

Acids. Oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

# 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

#### Information on toxicological effects

Acute toxicity

Not known. **Species** 

**Product** I.D. 200

Acute

Dermal

LD50

Rabbit

7.972e+006 mg/kg

**Test Results** 

Inhalation

LC50

Rat

58 mg/l, 2 Hours

Oral

LD50

Rat **Species** 

Rat

23830 mg/kg **Test Results** 

Components

Sodium Carbonate (CAS 497-19-8)

Acute

Inhalation

LC50

2.3 mg/l, 2 Hours

Material name: I.D. 200

SDS US

HIL00483 Version #: 03 Revision date: 11-11-2021 Issue date: 01-29-2015

**Test Results** Components **Species** Oral LD50 Rat 4090 mg/kg Sodium metasilicate (CAS 6834-92-0) Acute Oral LD50 Rat 1280 mg/kg Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye damage. irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. This product is not expected to cause skin sensitization. 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

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

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

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Prolonged inhalation may be harmful.

**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.

	Species	Test Results
EC50	Daphnia	3723.2017, 48 hours
EC50	Daphnia	3447.9846, 48 hours estimated
LC50	Fish	3030, 96 hours
	Species	Test Results
	EC50	EC50 Daphnia EC50 Daphnia LC50 Fish

Sodium Carbonate (CAS 497-19-8)

Aquatic

Acute

EC50 Crustacea

Water flea (Ceriodaphnia dubia)

>= 156.6 - <= 298.9 mg/l, 48 hours

300, 96 hours

Fish LC50 Bluegill (Lepomis macrochirus)

No data is available on the degradability of this product.

Persistence and degradability Bioaccumulative potential

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.

Material name: I,D, 200 SDS US

# 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

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). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

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.

**Toxic Substances Control Act (TSCA)** 

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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

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.

Material name: I.D. 200 sps us

Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

#### **US** state regulations

0.0

# 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. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

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

Canada Domestic Substances List (DSL) No

Canada Non-Domestic Substances List (NDSL) Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply 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
 01-29-2015

 Revision date
 11-11-2021

Version # 03

HMIS® ratings Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user

assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information Hazard(s) identification: Disposal

Physical & Chemical Properties: Multiple Properties Regulatory information: California Proposition 65 Regulatory information: US state regulations

Material name: I.D. 200 SDS US

# The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** 

**VINDICATOR+** 

Other means of identification

SDS number

566N-150A

**Product code** 

HIL00806

**Product registration** 

1839-167-1658

number

Recommended use

Disinfectant/Cleaner

Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

For Labeled Use Only

Manufacturer

Company name

HILLYARD INDUSTRIES

**Address** 

302 North Fourth St.

St. Joseph, MO 64501

**Contact person** 

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 4

**Health hazards** 

Acute toxicity, oral

Category 4

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

Hazardous to the aquatic environment, acute hazard

Category 1

Hazardous to the aquatic environment,

Category 1

**OSHA** defined hazards

Not classified.

long-term hazard

Label elements



Signal word

Danger

**Hazard statement** 

Combustible liquid. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection.

Material name: VINDICATOR+

SDS US

HIL00806 Version #: 05 Revision date: 02-04-2021 Issue date: 06-12-2015

If swallowed: Rinse mouth. Do NOT induce vomiting. 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. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to

extinguish. Collect spillage.

Storage

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

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	8.680%
Octyl decyl dimethyl ammonium chloride		32426-11-2	6.510%
Tetrasodium EDTA		64-02-8	3 - < 5
Didecyl dimethyl ammonium chloride		7173-51-5	3.255%
Dioctyl dimethyl ammonium chloride		5538-94-3	3.255%
C12-15 Alcohols Ethoxylated		68131-39-5	1 - < 3
Ethanol		64-17-5	1 - < 3
Other components below reportable	elevels		60 - < 70

<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 Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may Most important

symptoms/effects, acute and delayed

Ingestion

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical 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. Keep victim under observation.

Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Foam. 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

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. 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.

Material name: VINDICATOR+ HIL00806 Version #: 05 Revision date: 02-04-2021 Issue date: 06-12-2015 SDS HS

Fire fighting equipment/instructions

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

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

General fire hazards

Combustible liquid.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.

**Environmental precautions** 

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

## 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE – Store in original container a dry place no lower in temperature than 50° F or higher than 120° F that is locked and inaccessible to children.

### 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Biological limit values

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

Material name: VINDICATOR+ SDS US

Appropriate engineering controls

Good general ventilation 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. Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate,

Skin protection

Hand protection

Use protective gloves when dealing with the concentrate.

Other

Avoid contact with eyes, skin and clothing. If contact is likely, wear protective clothing appropriate

to use conditions.

Respiratory protection

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

General hygiene considerations

None known.

When using do not 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** 

Clear, yellow liquid

Physical state

Liquid.

Form

Liquid.

Color

Not available.

Odor

Floral fragrance

Odor threshold

Not available

pН

6.5 - 7.8 Concentrate

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

202 °F (94.44 °C)

range

Flash point

144.0 Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

18.17 mm Hg

Vapor density

0.6661 Air=1

Relative density

1.006 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

(n-octanol/water)

Not available

Auto-ignition temperature

Not available Not available

Decomposition temperature

Not available

Other information

Viscosity

Density

8.38 lb/gal

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

67 - 70 %

VOC

2.71 %

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact

Causes severe skin burns. Causes serious eye damage.

Eye contact Ingestion

Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Not known.

Components

**Test Results Species** 

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

Acute

Oral

LD50

Rat

84 mg/kg

6.2 g/kg

Ethanol (CAS 64-17-5)

**Acute** 

Inhalation

LC50

Mouse

Rat

39 mg/l, 4 Hours

Oral LD50

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

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

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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 -

Not classified.

repeated exposure

Material name: VINDICATOR+

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Aspiration hazard

Not an aspiration hazard.

**Chronic effects** 

Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** 

Very toxic to aquatic life with long lasting effects.

Product		Species	Test Results
VINDICATOR+			
Aquatic			
Crustacea	EC50	Daphnia	31.6714 mg/l, 48 hours estimated
Fish	LC50	Fish	14.734 mg/l, 96 hours estimated
Components		Species	Test Results
Alkyl dimethyl benzyl ammor	nium chloride (C1	2-16) (CAS 68424-85-1)	
Aquatic			
Fish	LC50	Striped bass (Morone saxatilis)	10.4 - 19.1 mg/l, 96 hours
C12-15 Alcohols Ethoxylated	I (CAS 68131-39-	5)	
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	1.04 - 1.39 mg/l, 96 hours
Didecyl dimethyl ammonium	chloride (CAS 71	73-51-5)	
Aquatic			
Fish	LC50	White sturgeon (Acipenser transmontanus)	0.001 - 0.01 mg/l, 96 hours
Ethanol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Tetrasodium EDTA (CAS 64	-02-8)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
sistence and degradability	No data is ava	allable on the degradability of this product.	
accumulative potential			
Partition coefficient n-octa	nol / water (log l	<b>(ow)</b> -0.31	
- 1174 - 1 11	NI- data accella		

Pe Bio

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** 

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

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).

Material name: VINDICATOR+ HIL00806 Version #: 05 Revision date: 02-04-2021 Issue date: 06-12-2015

#### Contaminated packaging

CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. After rinsing container, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For containers 1 gallon or less with a one-way opening that doesn't allow containers to be rinsed: Replace cap and discard in trash. Offer for recycling if available. RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

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.

**Toxic Substances Control Act (TSCA)** 

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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard

categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

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 (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

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#### FIFRA Information

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-167-1658, 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 products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles or face shield), clothing, and gloves when handling. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eve. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

#### US state regulations

#### 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. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

On inventory (yes/no)\* Inventory name Country(s) or region Canada Domestic Substances List (DSL) Canada Non-Domestic Substances List (NDSL) No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply 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 06-12-2015 02-04-2021 Revision date

Version # 05

Health: 3 **HMIS®** ratings

Flammability: 2 Physical hazard: 0

No representations or warranties, either express or implied, of merchantability, fitness for a Disclaimer

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is

responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Physical & Chemical Properties: Multiple Properties **Revision information** 

Regulatory information: California Proposition 65

SDS US Material name: VINDICATOR+

# The Cleaning Resource

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** 

**RE-JUV-NAL** 

Other means of identification

SDS number

543N-29A

**Product code** 

HIL00816

**Product registration** 

1839-169-1658

number

Disinfectant/Cleaner

Recommended use Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

For Labeled Use Only

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St. St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Category 2

Hazardous to the aquatic environment,

Category 2

**OSHA** defined hazards

Not classified.

long-term hazard

Label elements



Signal word

Danger

**Hazard statement** 

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Collect spillage.

Material name: RE-JUV-NAL

SDS US

**Storage** 

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None known.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	2.170%
Octyl decyl dimethyl ammonium chloride		32426-11-2	1.627%
Didecyl dimethyl ammonium chloride		7173-51-5	0.814%
Dioctyl dimethyl ammonium chloride		5538-94-3	0.814%
Other components below reportable	levels		94.59251008

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth thoroughly. Drink water as a precaution. Never give anything by mouth to a victim Ingestion

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

During fire, gases hazardous to health may be formed.

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

who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach

Causes severe irritation and/or burns. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May

content doesn't get into the lungs. Get medical attention if symptoms occur.

Most important

Indication of immediate

symptoms/effects, acute and delayed

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

medical attention and special treatment needed

> Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

cause redness and pain.

General information

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions Specific methods

General fire hazards

Move containers from fire area if you can do so without risk.

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

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

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

**Environmental precautions** 

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, water courses or onto the ground.

7. Handling and storage

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid Precautions for safe handling

prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in original container in a cool (temperature no lower than 50oF or higher than 120°F), dry and locked storage area inaccessible to children.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Biological limit values

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

Appropriate engineering

controls

Good general ventilation 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. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing. Wear appropriate chemical resistant clothing.

Respiratory protection

Not normally required with adequate ventilation. 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

None known.

General hygiene considerations

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** 

Clear, red liquid

Physical state

Liquid.

**Form** 

Liquid.

Color Odor

Red

Floral fragrance

Odor threshold

Not available

pН

6 - 7 Concentrate

Melting point/freezing point Initial boiling point and boiling Not applicable / Not available

range

201 °F (93.89 °C)

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.67 mm Hg

Vapor density

0.6319 Air = 1

Relative density

1.002 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

**Viscosity** 

Not available

Other information

Density

8.34 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

91.5 - 92.5 %

VOC

0.68 %

## 10. Stability and reactivity

Reactivity

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

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Strong oxidizing agents.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact Ingestion

Causes serious eye damage. Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Severe eye irritation, Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

## Information on toxicological effects

Acute toxicity

Not known. **Species** 

**Product** 

**Test Results** 

#### RE-JUV-NAL

**Acute** 

**Dermal** 

LD50

Rabbit

332100 mg/kg

Oral

LD50

Rat

9741 mg/kg

Material name: RE-JUV-NAL

SDS US

HIL00816 Version #: 04 Revision date: 01-10-2020 Issue date: 03-11-2015

**Test Results** Components **Species** 

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

**Acute** Dermal

LD50 Rabbit 2730 mg/kg

Oral

84 mg/kg Rat LD50

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

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

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Specific target organ toxicity -

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

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Product		Species	Test Results
RE-JUV-NAL			
Aquatic			
Crustacea	EC50	Daphnia	126.6858 mg/l, 48 hours estimated
Fish	LC50	Fish	58.9702 mg/l, 96 hours estimated
Components		Species	Test Results
Alkyl dimethyl benzyl	ammonium chloride	(C12-16) (CAS 68424-85-1)	
Aquatic			
Fish	LC50	Striped bass (Morone saxatilis)	10.4 - 19.1 mg/l, 96 hours
Didecyl dimethyl amm	onium chloride (CA	S 7173-51-5)	
Aquatic			
Fish	LC50	White sturgeon (Acipenser	0.001 - 0.01 mg/l, 96 hours

transmontanus)

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

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.

SDS US Material name: RE-JUV-NAL

## 13. Disposal considerations

Disposal instructions PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess

pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

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

CONTAINER DISPOSAL – Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. After rinsing container, offer empty metal drums or plastic containers for recycling if available or puncture and dispose of in a sanitary landfill or by incineration. RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ½ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

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 or Exempt.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Material name: RE-JUV-NAL SDS US

#### 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

(SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

**FIFRA Information** 

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-169-1658, 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 products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently 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. If on skin or clothing: 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. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

#### **US** state regulations

#### 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. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates that all components of this product comply 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
 03-11-2015

 Revision date
 01-10-2020

 Version #
 04

Health: 3 Flammability: 0 Physical hazard: 0

Disclaimer

**HMIS®** ratings

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Material name: RE-JUV-NAL SDS US

## **Revision information**

Hazard(s) identification: Response

Composition/information on ingredients: Component information

First-aid measures: Skin contact

First-aid measures: Most important symptoms/effects, acute and delayed

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Exposure controls/personal protection: Other Exposure controls/personal protection: PPE Symbols

Physical & Chemical Properties: Multiple Properties Stability and reactivity: Conditions to avoid Toxicological Information: Toxicological Data

Toxicological information: Symptoms related to the physical, chemical and toxicological

characteristics

Regulatory information: Toxic Substances Control Act (TSCA)

GHS: Classification

Material name: RE-JUV-NAL SDS US

# HILLYARD The Cleaning Resource\*

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** 

QT 3

Manufacturer/Importer/Supplier/Distributor information

Other means of identification

SDS number

584N-167A

Product code

HIL00843

**Product registration** 

111200010

number

6836-349-1658

Recommended use

Disinfectant/Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

**Contact person** 

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

### 2. Hazard(s) identification

Physical hazards

Health hazards

Flammable liquids

Category 4

Corrosive to metals

Category 1

Acute toxicity, oral

Category 4

Skin corrosion/irritation

Category 1C

Serious eye damage/eye irritation

Category 1

Haza

Hazardous to the aquatic environment, acute

Category 2

hazard

Hazardous to the aquatic environment,

Category 2

long-term hazard

**OSHA** defined hazards

**Environmental hazards** 

Not classified.

Label elements



Signal word

Danger

**Hazard statement** 

Combustible liquid. May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long

lasting effects.

Material name: QT 3 sps us

HIL00843 Version #: 05 Revision date: 11-18-2021 Issue date: 10-10-2016

Precautionary statement

Keep away from flames and hot surfaces-No smoking. Keep only in original container. Do not Prevention

breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment, Wear protective gloves/protective clothing/eye

protection/face protection.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do

> NOT induce vomiting. If on skin (or hair): Take off immediately all 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. Immediately call a poison center/doctor. In case of fire: Use

appropriate media to extinguish. Absorb spillage to prevent material-damage.

Storage Store in a well-ventilated place. Keep cool. Store locked up. Store in corrosive resistant container

with a resistant inner liner.

Buyer assumes all risk and liability associated with disposal of this product (original concentration Disposal

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. Container Disposal: Nonrefillable container. Do not reuse or refill this container.

Wrap empty container and put in trash.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	10 - < 20
Didecyldimethylammonium Chloride (ddac (c8-10))		68424-95-3	10 - < 20
C9-11 Alcohols Ethoxylated		68439-46-3	5 - < 10
Ethanol		64-17-5	3 - < 5
Tetrasodium EDTA		64-02-8	3 - < 5
Other components below reportable le	evels		60 - < 70

<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 Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

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. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Ingestion

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

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

General information

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.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. 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

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Material name: QT 3 SDS US Special protective equipment and precautions for firefighters 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.

Combustible liquid.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak, Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.

**Environmental precautions** 

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

### 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children.

Value

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Type

·	·		
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	ies		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

**Biological limit values** 

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

Material name: QT 3 SDS US Appropriate engineering

controls

Good general ventilation 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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Avoid contact with eyes, skin and clothing. If contact

is likely, wear protective clothing appropriate to use conditions.

Respiratory protection

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

None known.

General hygiene considerations

When using do not smoke. Keep away from food and drink. 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** 

Clear to slightly hazy, blue liquid

Physical state

Liquid.

Form

Liquid.

Color

Blue

Odor

Floral odor

Odor threshold

Not available.

pН

12 - 13.5

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

range

Flash point

144.0 °F (62.2 °C) Tag Closed Cup

Evaporation rate

< 1 Ethyl ether = 1

206 °F (96.67 °C)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

18.38 mm Hg

Vapor density

 $0.6753 \, \text{Air} = 1$ 

Relative density

1.004 at 77°F

Solubility(ies)

Solubility (water)

Auto-ignition temperature

100 %

Partition coefficient

Not available.

(n-octanol/water)

Not available. Not available.

Decomposition temperature Viscosity

Not available.

Other information

Density

8.36 lb/gal

Explosive properties
Oxidizing properties

Not explosive.

Percent volatile

Not oxidizing. 65 - 67 %

voc

3.48 %

Material name: QT 3

SDS US

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## 10. Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive

to metals.

Chemical stability

Material is stable under normal conditions. Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid Conditions to avoid

temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other

chemicals.

Incompatible materials

Acids. Strong oxidizing agents. Oxidizing agents. Metals.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Skin contact

Causes severe skin burns.

Eye contact

Causes serious eye damage.

Ingestion

Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

**Acute toxicity** 

Harmful if swallowed.

**Test Results** Product Species

QT3

Acute

Inhalation

LC50 Rat 6076 mg/l, 4 Hours

Components **Species Test Results** 

Ethanol (CAS 64-17-5)

**Acute** 

Inhalation

LC50

Mouse

39 mg/l, 4 Hours

Oral

LD50 Rat 6.2 g/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

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

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Possible reproductive hazard.

Material name: QT 3 SDS US