

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078358420

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078358412



**MATERIAL SAFETY DATA SHEET**  
**KERATOLUX® Tar Free Medicated Shampoo with**  
**SPHERULITES® Microcapsules**  
**ANTI-IRRITANT ANTI-ADHESIVE TECHNOLOGY®**  
**Product Codes: 002008 and 002116**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING**

<b>Product Name</b>	KERATOLUX® Tar Free Medicated Shampoo with SPHERULITES® Microcapsules ANTI-IRRITANT ANTI-ADHESIVE TECHNOLOGY®
<b>Product Description</b>	Shampoo for dogs, cats, and horses
<b>Manufacturer/Supplier</b>	Virbac AH, Inc.
<b>Address</b>	P.O. Box 162059 Fort Worth, Texas 76161
<b>Phone Number</b>	(800) 338-3659 for Technical Support
<b>Chemtrec Number (24 hour)</b>	(800) 424-9300
<b>Emergency Number:</b>	(800) 338-3659 for Human and Animal Medical Emergencies
<b>MSDS Revision Date:</b>	March 7, 2011
<b>Supersedes MSDS Dated:</b>	May 10, 2010

*Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)*

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**  
**CAUTION!**

Avoid contact with eyes and skin.  
Harmful if swallowed.  
Keep out of reach of children.  
Read entire label before each use.

**Routes of Entry**

Eye contact - Skin contact - Ingestion - Inhalation - Absorption

**Carcinogenic Status**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**

Eyes - Skin - Respiratory System - Reproductive System

**Health Effects - Eyes**

Contact with eyes can cause irritation.

**Health Effects - Skin**

Contact with skin can cause irritation.

**Health Effects - Ingestion**

Harmful if swallowed. Ingestion of this material may cause gastrointestinal effects such as nausea, vomiting, diarrhea, abdominal cramps and constipation. Prolonged, repeated ingestion can cause adverse reproductive effects.

**Health Effects - Inhalation**

No adverse effects are expected during normal conditions of use. Prolonged, repeated exposure may cause irritation to the respiratory tract and adverse reproductive effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component Name</b>	<b>CAS Number</b>	<b>Concentration</b>
Zinc Glutamate	4468-02-4	~0.5%
Pyridoxine HCL	58-56-0	~0.5%



**Material Safety Data Sheet**  
**KERATOLUX® Tar Free Medicated Shampoo with SPHERULITES®**  
**Microcapsules**  
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**Product Codes: 002008 and 002116**

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Component Name	CAS Number	Concentration
Salicylic Acid	69-72-7	~0.86%
Surfactant	N/A	1 - 10%
Detergent blend	N/A	1 - 10%
Sodium Chloride	7647-14-5	≤ 1%
Cocamidopropyl betaine	61789-40-0	1 - 5 %
Citric Acid	77-92-9	≤ 1%
Polyethylene Glycol	25322-68-3	≤ 1%

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**4. FIRST AID MEASURES**

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**Eyes**

Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

**Ingestion**

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation**

Remove person to fresh air. Seek medical attention if symptoms persist.

**Advice to Physicians**

Treat symptomatically.

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**5. FIRE - FIGHTING MEASURES**

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**Extinguishing Media**

Use extinguishing media appropriate for surrounding materials.

**Unusual Fire and Explosion Hazards**

Can release hazardous vapors during a fire.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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Wear appropriate protective clothing. Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses.

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**7. HANDLING AND STORAGE**

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Store in original container in a cool, dry place. Store away from children and pets. Do not store near foodstuffs. Do not contaminate water, food or feed by storage. Wear appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wash and remove contaminated clothing before reuse. Avoid breathing vapors. Wash hands thoroughly after handling and before eating, drinking or smoking.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational Exposure Standards

Exposure limits are listed below, if they exist.

#### Salicylic Acid

None established

#### Zinc Glutamate

None established

#### Pyridoxine HCL

None established

#### Surfactant

None established

#### Detergent blend

None established

#### Sodium Chloride

None established

#### Cocamidopropyl Betaine

None established

#### Polyethylene Glycol

None established

#### Citric Acid

None established

### Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

### Respiratory Protection

Not required under normal conditions of use. Professional groomers and those with repeated and extended exposures should consider the use of respiratory protection if there is a risk of exposure to high vapor concentrations or aerosols. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

### Hand Protection

Elbow length chemical resistant gloves.

### Eye Protection

Safety glasses or goggles.

### Body Protection

Waterproof apron.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Liquid
Color	White to yellow
Odor	Camphor
pH	No data available
Specific Gravity	No data available
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	No data available
Density	No data available



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Solubility in Water</b>	Soluble
<b>Vapor Density (Air = 1)</b>	No data available

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**10. STABILITY AND REACTIVITY**

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**Stability**

Stable under normal conditions.

**Conditions to Avoid**

Heat - high temperatures

**Materials to Avoid**

Strong oxidizers – strong acids

**Hazardous Polymerization**

Will not occur.

**Hazardous Decomposition Products**

Oxides of carbon - oxides of sulfur - acrolein - nitrogen - ammonia - hydrocarbons - alcohols - ethers - carboxylic acids

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**11. TOXICOLOGICAL INFORMATION**

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See product packaging for additional information.

**Acute Toxicity**

Cocamidopropyl betaine: Oral LD50 (rat) 5000 mg/kg

Salicylic acid: Oral LD50 (rat) 891 mg/kg, Dermal LD50 (rabbit) >10,000 mg/kg,  
Inhalation LC50 >900 mg/m<sup>3</sup> (rat)

Pyridoxine HCL: Oral LD50 (rat) 4000mg/kg

**Specific Target Organ Systemic Toxicity (single and repeat)**

Cocamidopropyl betaine: 28 day Subchronic Toxicity Study (rat) (doses: 100, 500, 1000 mg/kg): No adverse effects observed at 100 mg/kg

Salicylic acid: Chronic exposure may cause adverse effects to the central nervous system, lungs, kidneys and liver. Skin absorption of salicylic acid may enhance the symptoms of ingestion.

**Serious Eye damage/Eye Irritation**

Salicylic acid: Severe eye irritant (rabbit)

Cocamidopropyl betaine: Causes moderate eye (Primary Eye Irritation - rabbit)

**Skin Corrosion/Irritation**

Salicylic acid: Slightly irritating (rabbit)

Cocamidopropyl betaine: Causes mild skin irritation (Primary Skin Irritation - rabbit)

**Respiratory or Skin Sensitization**

Salicylic acid: May cause allergic reactions in people with aspirin sensitivities and asthma.

Cocamidopropyl betaine: No evidence of delayed contact hypersensitivity (guinea pig- Delayed Contact Sensitization Study) or sensitization ( Human Patch Test)

**Carcinogenicity**

Cocamidopropyl betaine: Not a carcinogen (Carcinogenicity Study- dermal - mice -20 months)

**Germ Cell Mutagenicity**

Salicylic acid: Not mutagenic in laboratory studies.

Cocamidopropyl betaine: Not mutagenic (Ames test and Mouse Micronuclear Assay)

**Toxicity to Reproduction**

Salicylic acid: Based on animal feeding studies, may cause reproductive and developmental abnormalities.



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**Product Codes: 002008 and 002116**

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**12. ECOLOGICAL INFORMATION**

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**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

Salicylic acid: EC50 fresh water algae 100 mg/l 72 hr, EC50 Daphnia 180 mg/l 24hr

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**13. DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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Contact supplier for transport information.

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**15. REGULATORY INFORMATION**

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<b>US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS</b>
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**TSCA Listing**

This product contains ingredients that are not listed on the EPA Toxic Substance Control Act Chemical Substance (TSCA) Inventory.

**DSL (Canadian) Listing**

This product contains ingredients that have not been verified for listing on the Domestic Substance List (DSL).

**WHMIS Classification**

D.2.B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

**MA Right To Know Law**

This product contains the following chemicals on the Massachusetts Right to Know Law: None

**PA Right To Know Law**

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: None

**NJ Right To Know Law**

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: None

**California Proposition 65**

This product contains the following chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm: Ethylene oxide (75-21-8) trace – 1,4 Dioxane (123-91-1) trace

**SARA Title III Sect. 311/312 Categorization**

Immediate (acute) Delayed (Chronic)

**SARA Title III Sect. 313**

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None



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**16. OTHER INFORMATION**

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**NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

**HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

**Abbreviations**

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

**For further information call:** (800) 338-3659

**Prepared By:** EnviroNet LLC

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**SAFETY DATA SHEET**  
**KERATOLUX®**  
**(Piroctone Olamine)**  
**Medicated Shampoo for Dogs and Cats**

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**1. IDENTIFICATION**

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<b>Product Name</b>	KERATOLUX® (Piroctone Olamine) Medicated Shampoo for Dogs and Cats
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Medicated shampoo for dogs and cats
<b>Restrictions on Use</b>	For animal use only. For external use only. Not for otic use.
<b>Company Identification</b>	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>Chemtrec Number</b>	(800) 424-9300
<b>Other Emergency Number:</b>	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-345-4735 (human and pet)
<b>Issue Date</b>	July 30, 2018
<b>Supersedes Date</b>	December 16, 2016 (KERATOLUX® Tar Free Medicated Shampoo with SPHERULITES® Microcapsules)

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

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**2. HAZARDS IDENTIFICATION**

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**Hazard Classification**

Eye Damage/Irritation - Category 1  
Skin Corrosion/Irritation - Category 2

**Label Elements**

Hazard Symbols



Signal Word: Danger

**Hazard Statements**

Causes serious eye damage.  
Causes skin irritation.

**Precautionary Statements**

**Prevention**

Wear eye protection/face protection.  
Wash hands thoroughly after handling.

**Response**

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



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## 2. HAZARDS IDENTIFICATION

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**Storage**

None

**Disposal**

None

**Other Hazards**

None

**Specific Concentration Limits**

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	35 - 45%
Acute dermal toxicity	35 - 45%
Acute inhalation toxicity	35 - 45%
Acute aquatic toxicity	35 - 45%

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Synonyms:**

This product is a mixture.

**Component Name**

Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts  
1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt  
1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt  
Glycerin  
Piroctone Olamine  
Acetic acid, 2-hydrox-,sodium salt (1:1)

**CAS Number**

68585-34-2  
683-10-3  
2601-33-4  
56-81-5  
68890-66-4  
2836-32-0

**Concentration**

3 - 7 %  
3 - 7%  
1 - 5%  
1 - 5%  
0.1- 1.0%  
0.1- 1.0%

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## 4. FIRST AID MEASURES

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**Description of necessary first-aid measures****Eyes**

Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

**Ingestion**

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation**

Remove person to fresh air. Seek medical attention if symptoms persist.

**Most important symptoms/effects, acute and delayed**

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.



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#### 4. FIRST AID MEASURES

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**Indication of immediate medical attention and special treatment needed**

**Notes to Physicians**

Treat symptomatically.

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#### 5. FIRE - FIGHTING MEASURES

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**Extinguishing Media**

Use extinguishing media appropriate for surrounding materials.

**Unusual Fire and Explosion Hazards**

Can release hazardous vapors during a fire.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing.

**Environmental Precautions**

Prevent the material from entering drains or watercourses.

**Methods and materials for containment and cleaning up**

Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses.

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#### 7. HANDLING AND STORAGE

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**Precautions for safe handling**

Wear appropriate protective clothing. Avoid contact with eyes. Wash hands thoroughly after handling and before eating, drinking or smoking.

**Conditions for safe storage**

Store in original container at controlled room temperature of 59-86°F (15-30°C). Store away from children and pets.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Control parameters**

Exposure limits are listed below, if they exist.

**Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts**

None established.

**1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt**

None established.

**1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt**

None established.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Glycerin (Mist)

ACGIH: TLV 10 mg/m<sup>3</sup> 8h TWA.

OSHA: PEL 5 mg/m<sup>3</sup> 8h TWA respirable fraction  
15mg/m<sup>3</sup> 8h TWA total dust

### Piroctone Olamine

None established.

### Acetic acid, 2-hydroxy-,sodium salt (1:1)

None established.

### Appropriate engineering controls

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

### Individual protection measures

#### Respiratory Protection

Not required under normal conditions of use. Professional groomers and those with repeated and extended exposures should consider the use of respiratory protection if there is a risk of exposure to high vapor concentrations or aerosols. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

#### Skin Protection

Chemical resistant gloves.

#### Eye/Face Protection

Safety glasses with side shields or goggles.

#### Body Protection

Waterproof apron.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Physical State	Liquid (gel)
Color	Clear Light yellow
Odor	None
Odor Threshold	No data available
pH	4.5 - 6
Density	No data available
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	No data available
VOC	No data available
Partition coefficient (n-octanol/water)	Not applicable
Viscosity	Not applicable
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Flammability (solid, gas)	No data available



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## 10. STABILITY AND REACTIVITY

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### Reactivity

Data is not available

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

### Conditions to Avoid

Heat - high temperatures

### Incompatible Materials

Strong oxidizers – strong acids

### Hazardous Decomposition Products

Oxides of carbon – aldehydes – sulfur oxides

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

No relevant studies identified.

### Specific Target Organ Toxicity (STOT) – single exposure

Available data indicates this product is not expected to cause target organ effects after a single exposure.

### Specific Target Organ Toxicity (STOT) – repeat exposure

Available data indicates this product is not expected to cause target organ effects after repeated exposure.

### Serious Eye damage/Irritation

Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts: Causes serious eye irritation.

1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt: Severely irritating to eyes in rabbit studies.

1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt: Severely irritating to eyes in rabbit studies.

Piroctone Olamine: Risk of serious damage to eyes.

Acetic acid, 2-hydroxy-, sodium salt (1:1): Causes serious eye damage.

### Skin Corrosion/Irritation

Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts: Causes skin irritation.

1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt: Causes skin irritation.

1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt: Causes skin irritation.

### Respiratory or Skin Sensitization

Available data indicates this product is not expected to cause skin sensitization.

### Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.



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**11. TOXICOLOGICAL INFORMATION**

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**Germ Cell Mutagenicity**

Available data indicates this product is not expected to be mutagenic.

**Reproductive Toxicity**

Available data indicates this product is not expected to cause reproductive toxicity or birth defects.

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

No relevant studies identified.

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bioaccumulative Potential**

No relevant studies identified.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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Contact supplier for transport information.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

This product is excluded from the US EPA Toxic Substance Control Act and is regulated under the Food, Drug and Cosmetic Act.

**SARA Title III Sect. 311/312 Categorization**

Serious eye damage – Skin irritation

**SARA Title III Sect. 313**

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: None



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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

ECHA: European Chemicals Agency

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: July 30, 2018

Replaces: December 16, 2016

Changes made: Reformulated, product name change and classification change.

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:** EnviroNet LLC.

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