



**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>	Human Toll-free 833-224-2009 Animal Toll-free 833-224-2013
<b>Issue Date</b>	March 4, 2020
<b>Supersedes Date</b>	July 30, 2018
<i>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)</i>	

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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	CAS Number	Concentration
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	68585-34-2	3 - 7 %
1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt	683-10-3	3 - 7%
1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt	2601-33-4	1 - 5%
Glycerin	56-81-5	1 - 5%
Piroctone Olamine	68890-66-4	0.1- 1.0%
Acetic acid, 2-hydrox-,sodium salt (1:1)	2836-32-0	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-hydrox-,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

<b>Physical State</b>	Liquid (gel)
<b>Color</b>	Clear Light yellow
<b>Odor</b>	None
<b>Odor Threshold</b>	No data available
<b>pH</b>	4.5 - 6
<b>Density</b>	No data available
<b>Boiling Range/Point (°C/F)</b>	No data available
<b>Melting Point (°C/F)</b>	No data available
<b>Flash Point (PMCC) (°C/F)</b>	Not flammable
<b>Vapor Pressure</b>	No data available
<b>Evaporation Rate (BuAc=1)</b>	No data available
<b>Solubility in Water</b>	Soluble
<b>Vapor Density (Air = 1)</b>	No data available
<b>VOC</b>	No data available
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	No data available
<b>Lower explosive limit</b>	No data available
<b>Flammability (solid, gas)</b>	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-hydrox-,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: March 4, 2020

Replaces: July 30, 2018

Changes made: Update to emergency numbers.

**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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