1. Product and Company Identification

Product Name: Sergeant's Skip Flea & Tick Shampoo for Dogs and Puppies  
Synonym(s): EPA # 2517-63  
CAS #: Mixture  
Product use: Flea and tick shampoo for dogs  
Manufacturer: Sergeant's Pet Care Products, Inc.  
10077 South 134th Street  
Omaha, NE 68138-3710 US  
Phone: 1-800-224-7387  
Emergency Phone: 1-800-781-4738  
CHEMTREC: 1-800-424-9300

2. Hazards Identification

Emergency overview: CAUTION  
HARMFUL IF INHALED.  
Causes moderate eye irritation.  
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Potential short term health effects  
Routes of exposure: Eye, Skin contact, Skin absorption, Inhalation, Ingestion.  
Eyes: Causes moderate eye irritation.  
Skin: May cause irritation.  
ACGIH - Threshold Limit Values - Skin Notations  
Ethanol, 2,2''-iminobis-  
111-42-2  
Skin - potential significant contribution to overall exposure by the cutaneous route  
Inhalation: Harmful if inhaled. May cause respiratory tract irritation.  
Ingestion: May cause stomach distress, nausea or vomiting.  
Target organs: Respiratory system. Eyes. Skin.  
Chronic effects: May cause allergic reaction in sensitive individuals.  
Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
OSHA Regulatory Status: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
Potential environmental effects: See section 12.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td>68603-42-9</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>C10-16 alkyl ethers, sodium salts</td>
<td>68585-34-2</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Cocamido propyl betaine</td>
<td>61789-40-0</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Sulfuric acid, monododecyl ester, compd. with 2,2'',2'''-nitrilotris[ethanol] (1:1)</td>
<td>139-96-8</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>111-42-2</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures
  Eye contact  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.
  Skin contact  Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
  Inhalation  Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
  Ingestion  Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
  General advice  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. Avoid contact with eyes. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties  Not flammable by OSHA criteria.
Extinguishing media
  Suitable extinguishing media  Treat for surrounding material.
  Unsuitable extinguishing media  Not available
Protection of firefighters
  Specific hazards arising from the chemical  Not available
  Protective equipment for firefighters  Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products  May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur.
Explosion data
  Sensitivity to mechanical impact  Not available
  Sensitivity to static discharge  Not available

6. Accidental Release Measures

Personal precautions  Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions  Prevent entry into waterways, sewers, basements or confined areas.
Methods for containment  Stop leak if you can do so without risk.
Methods for cleaning up  Before attempting clean up, refer to hazard data given above and use appropriate personal protective equipment (PPE). Never return spills in original containers for re-use. Small Spills: Absorb with non-reactive absorbent and place in suitable, covered, labeled containers. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling  Use good industrial hygiene practices in handling this material. Avoid breathing vapors or mists of this product. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using toilet.
Storage  Keep out of reach of children. Store in original container in a cool, dry, well-ventilated area inaccessible to children and pets.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>C10-16 alkyl ethers, sodium salts</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Cocamido propyl betaine</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Ethanol, 2,2”-iminobis-</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 1 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Skin: 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
<tr>
<td>Permethrin</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Sulfuric acid, monododecyl ester, compd. with 2,2”-nitrilotris[ethanol] (1:1)</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

Engineering controls

- General ventilation normally adequate.

Personal protective equipment

- **Eye / face protection**: Wear safety glasses with side shields.
- **Hand protection**: Rubber gloves. Confirm with a reputable supplier first.
- **Skin and body protection**: As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- **General hygiene considerations**: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque</td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Fragrant</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
None known.
Possibility of hazardous reactions
Hazardous polymerization does not occur.
Chemical stability
Stable under recommended storage conditions.
Conditions to avoid
Do not mix with other chemicals.
Incompatible materials
Acids. Oxidizers.
Hazardous decomposition products
May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td>Not available</td>
</tr>
<tr>
<td>C10-16 alkyl ethers, sodium salts</td>
<td>Not available</td>
</tr>
<tr>
<td>Cocamido propyl betaine</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>Not available</td>
</tr>
<tr>
<td>Permethrin</td>
<td>2.3 mg/l/4h rat</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Sulfuric acid, monododecyl ester, compd. with 2,2''-2'''-nitroilris[ethanol] (1:1)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td>2700 mg/kg rat</td>
</tr>
<tr>
<td>C10-16 alkyl ethers, sodium salts</td>
<td>1700 mg/kg rat</td>
</tr>
<tr>
<td>Cocamido propyl betaine</td>
<td>2700 mg/kg rat</td>
</tr>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>710 mg/kg rat</td>
</tr>
<tr>
<td>Permethrin</td>
<td>806 mg/kg rat</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>2600 mg/kg mouse; 6150 mg/kg rat; 2650 mg/kg rabbit</td>
</tr>
<tr>
<td>Sulfuric acid, monododecyl ester, compd. with 2,2''-2'''-nitroilris[ethanol] (1:1)</td>
<td>1288 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

Eye
Causes moderate eye irritation.
Skin
May cause irritation.

**ACGIH - Threshold Limit Values - Skin Notations**
Ethanol, 2,2'-iminobis- 111-42-2 Skin - potential significant contribution to overall exposure by the cutaneous route

**Inhalation**
Harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**
May cause stomach distress, nausea or vomiting.

**Sensitization**
Non-hazardous by OSHA criteria.

**Chronic effects**
May cause allergic reaction in sensitive individuals.

**Carcinogenicity**
Contains potential carcinogens.

**ACGIH - Threshold Limit Values - Carcinogens**
Ethanol, 2,2'-iminobis- 111-42-2 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

**IARC - Group 2B (Possibly Carcinogenic to Humans)**
Amides, coco, 68603-42-9 Monograph 101 [in preparation]

**IARC - Group 3 (Not Classifiable)**
Permethrin 52645-53-1 Monograph 53 [1991]
Piperonyl butoxide 51-03-6 Supplement 7 [1987]; Monograph 30 [1983]

**Mutagenicity**
Non-hazardous by OSHA criteria.

**Reproductive effects**
Contains a potential reproductive toxin.

**Teratogenicity**
Non-hazardous by OSHA criteria.

**Name of Toxicologically Synergistic Products**
Not available

## 12. Ecological Information

**Ecotoxicity**
Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**
Cocamido propyl betaine 61789-40-0 72 Hr EC50 Desmodesmus subspicatus: 1.0 - 10.0 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 0.55 mg/L
Ethanol, 2,2’-iminobis- 111-42-2 72 Hr EC50 Desmodesmus subspicatus: 7.8 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 2.1 - 2.3 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**
Amides, coco, 68603-42-9 96 Hr LC50 Brachydanio rerio: 3.6 mg/L [semi-static]
N,N bis(hydroxyethyl) Cocamido propyl betaine 61789-40-0 96 Hr LC50 Brachydanio rerio: 1.0-10.0 mg/L; 96 Hr LC50 Brachydanio rerio: 2 mg/L [semi-static]
Ethanol, 2,2’-iminobis- 111-42-2 96 Hr LC50 Pimephales promelas: 4460-4980 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 1200-1580 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 600-1000 mg/L [static]
Permethrin 52645-53-1 96 Hr LC50 Pimephales promelas: 0.008-0.03 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.001-0.009 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.015 mg/L [flow-through]; 96 Hr LC50 Cyprinus carpio: 0.0002-0.0077 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.00079 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.0108 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.00188-0.00336 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.00049-0.00097 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.0017-0.48 Hr LC50 Leuciscus idus: 7.2-9.3 mg/L

Sulfuric acid, monododecyl ester, compd. with 2,2’,2’’-nitrotris[ethanol] (1:1) 139-96-8

**Ecotoxicity - Water Flea - Acute Toxicity Data**
Amides, coco, 68603-42-9 24 Hr EC50 Daphnia magna: 4.2 mg/L
N,N bis(hydroxyethyl) Cocamido propyl betaine 61789-40-0 48 Hr EC50 Daphnia magna: 6.5 mg/L
Ethanol, 2,2’-iminobis- 111-42-2 48 Hr EC50 Daphnia magna: 55 mg/L
Sulfuric acid, monododecyl ester, compd. with 2,2’,2’’-nitrotris[ethanol] (1:1) 139-96-8 24 Hr EC50 Daphnia magna: 12.7 - 44.3 mg/L

**Persistence / degradability**
Not available

**Bioaccumulation / accumulation**
Not available

**Mobility in environmental media**
Not available

**Environmental effects**
Not available

**Aquatic toxicity**
Not available

**Partition coefficient**
Not available

**Chemical fate information**
Not available

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13. Disposal Considerations

Disposal instructions  Nonrefillable container. Do not reuse or refill the container. IF EMPTY: Offer for recycling, if available. IF PARTLY FILLED: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Waste from residues / unused products  Not available

Contaminated packaging  Not available

14. Transport Information

U.S. Department of Transportation (DOT)  Not regulated as dangerous goods.

IMDG (Marine Transport)  Not regulated as dangerous goods.

IATA/ICAO (Air)  Not regulated as dangerous goods.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)  29 CFR 1910.1200 hazardous chemical  Yes

US Federal regulations  This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
- Ethanol, 2,2''-iminobis-  111-42-2  100 Lb final RQ; 45.4 kg final RQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
- Ethanol, 2,2''-iminobis-  111-42-2  1.0 % de minimis concentration
- Permethrin  52645-53-1  1.0 % de minimis concentration
- Piperonyl butoxide  51-03-6  1.0 % de minimis concentration

CERCLA (Superfund) reportable quantity  Ethanol, 2,2''-iminobis-: 100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)
- Hazard categories  Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

Section 302 extremely hazardous substance  No

Section 311 hazardous chemical  No

Clean Air Act (CAA)  Not available

Clean Water Act (CWA)  Not available

State regulations  WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Ethanol, 2,2'-iminobis- 111-42-2 Present
U.S. - Illinois - Toxic Air Contaminants
Ethanol, 2,2'-iminobis- 111-42-2 Present
U.S. - Louisiana - Reportable Quantity List for Pollutants
Ethanol, 2,2'-iminobis- 111-42-2 100 Lb final RQ; 45.4 kg final RQ
U.S. - Massachusetts - Right To Know List
Ethanol, 2,2'-iminobis- 111-42-2 Present
Permethrin 52645-53-1 Present
U.S. - Minnesota - Hazardous Substance List
Ethanol, 2,2'-iminobis- 111-42-2 Present
U.S. - New Jersey - Right to Know Hazardous Substance List
Ethanol, 2,2'-iminobis- 111-42-2 sn 0686
Permethrin 52645-53-1 sn 3422
Piperonyl butoxide 51-03-6 sn 3732
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Ethanol, 2,2'-iminobis- 111-42-2 1 Lb RQ (air); 1 lb RQ (land/water)
U.S. - Pennsylvania - RTK (Right to Know) List
Ethanol, 2,2'-iminobis- 111-42-2 Environmental hazard
U.S. - Rhode Island - Hazardous Substance List
Ethanol, 2,2'-iminobis- 111-42-2 Toxic; Flammable

Inventory status
Country(s) or region Inventory name On inventory (yes/no)*
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No
A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
</tr>
</tbody>
</table>

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

Issue date
01-Jan-2013
Effective date
01-Jan-2013
Prepared by
Dell Tech Laboratories Ltd. (519) 858-5021
Other information
For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

Revision date: 01-Jan-2013
Sections revised: 15
Supercedes MSDS dated: 07-Feb-2012