1. Product and Company Identification

Product Name: Sergeant's Gold Flea & Tick Shampoo for Dogs & Puppies
Synonym(s): EPA # 2517-79
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
May cause irritation.

Skin
Causes moderate eye irritation.

Inhalation
May cause irritation.

Ingestion
Harmful if inhaled. May cause respiratory tract irritation.
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>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>
<tr>
<td>Pyriproxyfen</td>
<td>95737-68-1</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.
### 5. Fire Fighting Measures

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

### 6. Accidental Release Measures

| Personal precautions | Keep unnecessary personnel away. Do not touch or walk through damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. |
| Environmental precautions | Do not discharge into lakes, streams, ponds or public waters. |
| Methods for containment | Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift, capturing water spray with appropriate diking. |
| Methods for cleaning up | Before attempting clean up, refer to hazard data and use appropriate personal protective equipment (PPE). Wet down with water to reduce vapors as needed, and dike for later disposal. Absorb with non-reactive absorbent and place in suitable, covered, labeled containers. Never return spills to original container for re-use. After removal flush contaminated area thoroughly with water. Contact emergency services and supplier for advice, if needed. |

### 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. 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>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>Pyriproxyfen</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''',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. As required by employer code.
- **Skin and body protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- **Respiratory protection**: 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

- **Appearance**: Clear
- **Color**: Yellow
- **Form**: Liquid
- **Odor**: Fragrant
- **Odor threshold**: Not available
- **Physical state**: Liquid
- **pH**: 6.8 - 7.5
Freezing point: Not available
Boiling point: Not available
Pour point: Not available
Evaporation rate: Not available
Flash point: > 200 °F (> 93.33 °C)
Auto-ignition temperature: Not available
Flammarility limits in air, lower, % by volume: Not available
Flammarility limits in air, upper, % by volume: Not available
Vapor pressure: Not available
Vapor density: Not available
Specific gravity: 8.486 lbs/gallon
Relative density: Not available
Octanol/water coefficient: Not available

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.
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>Permethrin</td>
<td>2.3 mg/l/4h rat</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Pyriproxyfen</td>
<td>Not available</td>
</tr>
<tr>
<td>Sulfuric acid, monododecyl ester, compd. with 2,2'',2''''-nitrilotris[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>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>Pyriproxyfen</td>
<td>2000 mg/kg rat</td>
</tr>
<tr>
<td>Sulfuric acid, monododecyl ester, compd. with 2,2'',2''''-nitrilotris[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.
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 a potential carcinogen.

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

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

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]
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: 0.0052-0.0077 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.

Sulfuric acid, monododecyl ester, compd. with 2,2'',2''''-nitrilotris[ethanol] (1:1) 139-96-8 48 Hr LC50 Leuciscus idus: 7.2-9.3 mg/L

Ecotoxicity - Water Flea - Acute Toxicity Data
Cocamido propyl betaine 61789-40-0 24 Hr EC50 Daphnia magna: 4.2 mg/L
Sulfuric acid, monododecyl ester, compd. with 2,2'',2''''-nitrilotris[ethanol] (1:1) 139-96-8 48 Hr EC50 Daphnia magna: 6.5 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

13. Disposal Considerations

Disposal instructions
Review federal, state and local government requirements prior to disposal. Typically municipal landfill will be appropriate. Do not reuse or refill this container.

Waste from residues / unused products
Review federal, state and local government requirements prior to disposal.

Contaminated packaging
Review federal, state and local government requirements prior to disposal.
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

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 - Section 313 - Emission Reporting
Permethrin 52645-53-1 1.0 % de minimis concentration
Piperonyl butoxide 51-03-6 1.0 % de minimis concentration

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. – Illinois – Toxic Air Contaminant Carcinogens
Amides, coco, N,N-bis(hydroxyethyl) 68603-42-9 IARC 2B Carcinogen

U.S. - Massachusetts - Right To Know List
Permethrin 52645-53-1 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Permethrin 52645-53-1 sn 3422
Piperonyl butoxide 51-03-6 sn 3732

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>Health</td>
<td>* 1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>X</td>
</tr>
</tbody>
</table>

| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |
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: 06-Sep-2013
Sections revised: 6,13,15
Supersedes MSDS dated: 07-Feb-2012