1. Product and Company Identification

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

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

Exposure limits

<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'',2'''-nitritol[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&quot;-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&quot;,2&quot;&quot;-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>Ethanol, 2,2&quot;-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&quot;,2&quot;&quot;-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.

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) 61789-40-0 96 Hr LC50 Brachydanio rerio: 1.0-10.0 mg/L; 96 Hr LC50 Brachydanio rerio: 2 mg/L [semi-static]
Cocamido propyl betaine 61789-40-0 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]
Ethanol, 2,2'-iminobis- 111-42-2 96 Hr LC50 Pimephales promelas: 0.008-0.03 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.001-0.099 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: 0.0017-0.007

Permethrin 52645-53-1 48 Hr LC50 Leuciscus idus: 7.2-9.3 mg/L

Sulfuric acid, monododecyl ester, compd. with 2,2''-2''-2''-nitritotris[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) 61789-40-0 48 Hr EC50 Daphnia magna: 6.5 mg/L
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''-2''-nitritotris[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
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

U.S. 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>E211-111-2</th>
<th>100 Lb (45kg) final RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>111-42-2</td>
<td>100 Lb final RQ; 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

<table>
<thead>
<tr>
<th>Substance</th>
<th>E211-111-2</th>
<th>1.0 % de minimis concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2,2''-iminobis-</td>
<td>111-42-2</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>1.0 % de minimis concentration</td>
</tr>
</tbody>
</table>

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories  Immediate Hazard - Yes

<table>
<thead>
<tr>
<th>Hazard category</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delayed Hazard</td>
<td>Class</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Class</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>Class</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>Class</td>
</tr>
</tbody>
</table>

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

LEGEND
HMIS

Health 1
Flammability 1
Physical Hazard 0
Personal Protection X

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