

## 1. Product and Company Identification

<b>Product Name</b>	<b>SENTRY Flea &amp; Tick Shampoo for Dogs and Puppies</b>
<b>Synonym(s)</b>	EPA # 2517-63
<b>CAS #</b>	Mixture
<b>Product use</b>	Flea and tick shampoo for dogs
<b>Manufacturer</b>	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
<b>CHEMTREC</b>	1-800-424-9300

## 2. Hazards Identification

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

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	2.5 - 10
C10-16 alkyl ethers, sodium salts	68585-34-2	2.5 - 10
Cocamido propyl betaine	61789-40-0	2.5 - 10
Sulfuric acid, monododecyl ester, compd. with 2,2",2""-nitriлотris[ethanol] (1:1)	139-96-8	2.5 - 10
Ethanol, 2,2"-iminobis-	111-42-2	0.1 - 1
Piperonyl butoxide	51-03-6	0.1 - 1
Permethrin	52645-53-1	0 - 0.1

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>General advice</b>	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.

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## 5. Fire Fighting Measures

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

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for containment</b>	Stop leak if you can do so without risk.
<b>Methods for cleaning up</b>	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.

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## 7. Handling and Storage

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<b>Handling</b>	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.
<b>Storage</b>	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

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

### 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

<b>Appearance</b>	Opaque.
<b>Color</b>	Green
<b>Form</b>	Liquid
<b>Odor</b>	Fragrant
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid

<b>pH</b>	7 - 7.7
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	> 200 °F (> 93.33 °C)
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Relative density</b>	8.486 lbs/gallon
<b>Octanol/water coefficient</b>	Not available

## 10. Stability and Reactivity

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

## 11. Toxicological Information

### Component analysis - LC50

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

### Component analysis - Oral LD50

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

### Effects of acute exposure

**Eye** Causes moderate eye irritation.

<b>Skin</b>	May cause irritation.	
<b>ACGIH - Threshold Limit Values - Skin Notations</b>		
Ethanol, 2,2'-iminobis-	111-42-2	Skin - potential significant contribution to overall exposure by the cutaneous route
<b>Inhalation</b>	Harmful if inhaled. May cause respiratory tract irritation.	
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.	
<b>Sensitization</b>	Non-hazardous by OSHA criteria.	
<b>Chronic effects</b>	May cause allergic reaction in sensitive individuals.	
<b>Carcinogenicity</b>	Contains potential carcinogens.	
<b>ACGIH - Threshold Limit Values - Carcinogens</b>		
Ethanol, 2,2'-iminobis-	111-42-2	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>IARC - Group 2B (Possibly Carcinogenic to Humans)</b>		
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	Monograph 101 [in preparation]
Ethanol, 2,2'-iminobis-	111-42-2	Monograph 101 [in preparation]; Monograph 77 [2000]
<b>IARC - Group 3 (Not Classifiable)</b>		
Permethrin	52645-53-1	Monograph 53 [1991]
Piperonyl butoxide	51-03-6	Supplement 7 [1987]; Monograph 30 [1983]
<b>Mutagenicity</b>	Non-hazardous by OSHA criteria.	
<b>Reproductive effects</b>	Contains a potential reproductive toxin.	
<b>Teratogenicity</b>	Non-hazardous by OSHA criteria.	
<b>Name of Toxicologically Synergistic Products</b>	Not available	

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns.	
<b>Ecotoxicity - Freshwater Algae - Acute Toxicity Data</b>		
Cocamido propyl betaine	61789-40-0	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 1.0 - 10.0 mg/L; 96 Hr EC50 <i>Desmodesmus subspicatus</i> : 0.55 mg/L
Ethanol, 2,2'-iminobis-	111-42-2	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 7.8 mg/L; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 2.1 - 2.3 mg/L
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>		
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	96 Hr LC50 <i>Brachydanio rerio</i> : 3.6 mg/L [semi-static]
Cocamido propyl betaine	61789-40-0	96 Hr LC50 <i>Brachydanio rerio</i> : 1.0-10.0 mg/L; 96 Hr LC50 <i>Brachydanio rerio</i> : 2 mg/L [semi-static]
Ethanol, 2,2'-iminobis-	111-42-2	96 Hr LC50 <i>Pimephales promelas</i> : 4460-4980 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 1200-1580 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 600-1000 mg/L [static]
Permethrin	52645-53-1	96 Hr LC50 <i>Pimephales promelas</i> : 0.008-0.03 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 0.001-0.009 mg/L [static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 0.015 mg/L [flow-through]; 96 Hr LC50 <i>Cyprinus carpio</i> : 0.0052-0.0077 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 0.00079 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 0.0108 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 0.00188-0.00336 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 0.00049-0.00097 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 0.0017-0.
Sulfuric acid, monododecyl ester, compd. with 2,2',2'''-nitrotris[ethanol] (1:1)	139-96-8	48 Hr LC50 <i>Leuciscus idus</i> : 7.2-9.3 mg/L
<b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>		
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	24 Hr EC50 <i>Daphnia magna</i> : 4.2 mg/L
Cocamido propyl betaine	61789-40-0	48 Hr EC50 <i>Daphnia magna</i> : 6.5 mg/L
Ethanol, 2,2'-iminobis-	111-42-2	48 Hr EC50 <i>Daphnia magna</i> : 55 mg/L
Sulfuric acid, monododecyl ester, compd. with 2,2',2'''-nitrotris[ethanol] (1:1)	139-96-8	24 Hr EC50 <i>Daphnia magna</i> : 12.7 - 44.3 mg/L
<b>Persistence / degradability</b>	Not available	
<b>Bioaccumulation / accumulation</b>	Not available	
<b>Mobility in environmental media</b>	Not available	
<b>Environmental effects</b>	Not available	
<b>Aquatic toxicity</b>	Not available	
<b>Partition coefficient</b>	Not available	
<b>Chemical fate information</b>	Not available	

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## 13. Disposal Considerations

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<b>Disposal instructions</b>	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.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

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## 14. Transport Information

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### 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.

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## 15. Regulatory Information

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### 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)

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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<b>Section 302 extremely hazardous substance</b>	No
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<b>Section 311 hazardous chemical</b>	No
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<b>Clean Air Act (CAA)</b>	Not available
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<b>Clean Water Act (CWA)</b>	Not available
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### 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

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.

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**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.

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Sections revised: 15

Supersedes MSDS dated: 07-Feb-2012