MATERIAL SAFETY DATA SHEET

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

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""-nitrilotris[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

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

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

Appearance	Opaque.
Color	Green
Form	Liquid
Odor	Fragrant
Odor threshold	Not available
Physical state	Liquid

pH	7 - 7.7
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
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Relative density	8.486 lbs/gallon
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.
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

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””-nitrilotris[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””-nitrilotris[ethanol] (1:1)	1288 mg/kg rat

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, 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]

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, N,N-bis(hydroxyethyl)	68603-42-9	96 Hr LC50 Brachydanio rerio: 3.6 mg/L [semi-static]
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: 0.0052-0.0077 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

Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	24 Hr EC50 Daphnia magna: 4.2 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”’-nitrilotris[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
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

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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Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

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