1. Product and Company Identification

**Product Name**: SENTRY Fiproguard Flea & Tick Spray for Dogs & Cats  
**Synonym(s)**: EPA # 87093-1-2517  
**CAS #**: Mixture  
**Product use**: Flea and tick control  
**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  
1-800-424-9300

CHEMTREC

2. Hazards Identification

**Emergency overview**: DANGER  
EXTREMELY FLAMMABLE LIQUID AND VAPOR.  
Contents under pressure. Containers may explode when heated.  
Harmful if absorbed through skin, if swallowed or if inhaled.  
Causes moderate eye irritation.

**Potential short term health effects**

- **Routes of exposure**: Eye, Skin contact, Skin absorption, Inhalation, Ingestion.  
- **Eyes**: Causes moderate eye irritation.  
- **Skin**: Harmful if absorbed through skin.  
- **Inhalation**: Harmful if inhaled.  
- **Ingestion**: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Target organs**: Skin. Respiratory system. Eyes.

**Chronic effects**: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**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>Isopropanol</td>
<td>67-63-0</td>
<td>90 - 100</td>
</tr>
<tr>
<td>Diethylene glycol monoethyl ether</td>
<td>111-90-0</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Butylated hydroxyanisole</td>
<td>25013-16-5</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Fipronil</td>
<td>120068-37-3</td>
<td>0.1 - 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. Obtain medical attention if irritation develops or persists.

- **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 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

General advice Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. 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 and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Extremely Flammable by OSHA criteria. Vapors may travel to a source of ignition and flash back.

Extinguishing media Carbon dioxide. Alcohol foam. Dry chemical.

Suitable extinguishing media Not available

Unsuitable extinguishing media Not available

Protection of firefighters Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Specific hazards arising from the chemical Firefighters should wear full protective clothing including self contained breathing apparatus.

Protective equipment for firefighters May include and are not limited to: Oxides of carbon.

Hazardous combustion products Not available

Explosion data 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 Do not discharge into lakes, streams, ponds or public waters.

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

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 contact with eyes, skin and clothing. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Use only with adequate ventilation. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

Storage Store in a cool dry place inaccessible to children and pets. Keep away from fire, sparks, heated surfaces or other sources of ignition. Do not store at temperatures above 120°F (49°C).
## 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated hydroxyanisole</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>Diethylene glycol monoethyl ether</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 25 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Fipronil</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>Isopropanol</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
</tr>
</tbody>
</table>

### Engineering controls
- General ventilation normally adequate.

### Personal protective equipment
- **Eye / face protection**: Safety glasses if eye contact is possible.
- **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>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, Non viscous</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcoholic.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>6.3</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>53 °F (11.66 °C)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Relative density 0.789 g/mL (6.59 lb/gal)
Octanol/water coefficient Not available
Solubility (H2O) Non soluble
Viscosity 2.29 mPa.s

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 Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not mix with other chemicals.
Incompatible materials Acids. Oxidizers.
Hazardous decomposition products May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) LC50
Butylated hydroxyanisole Not available
Diethylene glycol monoethyl ether 5240.0001 mg/l/4h rat
Fipronil 0.68 mg/l/4h rat
Isopropanol 16970 mg/l/4h rat

Component analysis - Oral LD50
Ingredient(s) LD50
Butylated hydroxyanisole 2000 mg/kg rat
Diethylene glycolmonoethyl ether 5500 mg/kg rat
Fipronil 100 mg/kg rat
Isopropanol 4396 mg/kg rat

Effects of acute exposure
Eye Causes moderate eye irritation.
Skin Harmful if absorbed through skin.
Inhalation Harmful if inhaled.
Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by OSHA criteria.
Chronic effects Non-hazardous by OSHA criteria.
Carcinogenicity Contains a potential carcinogen.

ACGIH - Threshold Limit Values - Carcinogens
Isopropanol 67-63-0 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 2B (Possibly Carcinogenic to Humans)
Butylated hydroxyanisole 25013-16-5 Supplement 7 [1987]; Monograph 40 [1986]

IARC - Group 3 (Not Classifiable)
Isopropanol 67-63-0 Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]

NTP (National Toxicology Program) - Report on Carcinogens - Reasonably Anticipated to be Human Carcinogens
Butylated hydroxyanisole 25013-16-5 Reasonably Anticipated To Be A Human Carcinogen

U.S. - California - Proposition 65 - Carcinogens List
Butylated hydroxyanisole 25013-16-5 carcinogen, initial date 1/1/90

Mutagenicity Non-hazardous by OSHA criteria.
Reproductive effects Non-hazardous by OSHA criteria.
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.

<table>
<thead>
<tr>
<th>Ecotoxicity - Freshwater Algae - Acute Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Isopropanol</strong> 67-63-0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diethylene glycol monoethyl ether</strong> 111-90-0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ecotoxicity - Water Flea - Acute Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diethylene glycol monoethyl ether</strong> 111-90-0</td>
</tr>
<tr>
<td><strong>Isopropanol</strong> 67-63-0</td>
</tr>
</tbody>
</table>

### 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)

**Basic shipping requirements:**

- **Option 1)**
  - **Proper shipping name:** Consumer commodity
  - **Hazard class:** 9
  - **UN number:** ID8000

  **Additional information:**
  - **Special provisions:** 156, 167, 306
  - **Limited quantity:** 1L
  - **Excepted quantity:** N/A

- **Option 2)**
  - **Proper shipping name:** AEROSOLS, Flammable, Limited Quantity
  - **Hazard class:** 2.1
  - **UN number:** 1950

  **Additional information:**
  - **Special provisions:** N82, 306
  - **Limited quantity:** 1L
  - **Excepted quantity:** N/A

### Package Labels

![ ORM-D Package Label](image1)

OR

![ Y Package Label](image2)

![ 9 Package Label](image3)
IMDG (Marine Transport)
Basic shipping requirements:
Proper shipping name: AEROSOLS, Flammable, Limited Quantity
Hazard class: 2.1
UN number: 1950
Additional information:
Special provisions: 63,190,277,327,959
Limited quantity: 1L
Excepted quantity: E0
Stowage location: Cat A

IATA/ICAO (Air)
Basic shipping requirements:
Proper shipping name: Consumer commodity
Hazard class: 9
UN number: ID8000
Additional information:
Special provisions: A112
Excepted quantity: E0
Limited quantity passenger/cargo aircraft: 30 kg gross

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)
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
Isopropanol: 67-63-0 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
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.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Butylated hydroxyanisole: 25013-16-5 Present
Isopropanol: 67-63-0 Present

U.S. - California - Proposition 65 - Carcinogens List
Butylated hydroxyanisole: 25013-16-5 carcinogen, initial date 1/1/90

U.S. - Illinois - Toxic Air Contaminant Carcinogens
Butylated hydroxyanisole: 25013-16-5 IARC 2B Carcinogen; NTP Anticipated Carcinogen
U.S. - Massachusetts - Right To Know List
Butylated hydroxyanisole 25013-16-5 Carcinogen; Extraordinarily hazardous
Isopropanol 67-63-0 Present

U.S. - Minnesota - Hazardous Substance List
Butylated hydroxyanisole 25013-16-5 Carcinogen
Diethylene glycol monoethyl ether 111-90-0 Present
Isopropanol 67-63-0 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Butylated hydroxyanisole 25013-16-5 sn 3563
Isopropanol 67-63-0 sn 1076

U.S. - Pennsylvania - RTK (Right to Know) List
Isopropanol 67-63-0 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List
Isopropanol 67-63-0 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

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>* 1</td>
<td>4</td>
<td>0</td>
<td>X</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.

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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.

Revision date
Sections revised
Supersedes MSDS dated