1. Product and Company Identification

Product Name: Sergeant's Silver Flea and Tick Powder for Cats
CAS #: Mixture
Product use: Kills fleas and ticks
Manufacturer: Sergeant's Pet Care Products, Inc.
2625 South 158th Plaza
Omaha, NE 68130-1770 US
Phone: 1-800-224-7387
Fax: 1-402-938-7099
Emergency Phone: 1-800-781-4738
CHEMTREC: 1-800-424-9300

2. Hazards Identification

Emergency overview: Hazards to humans and domestic animals.
CAUTION: Avoid breathing dust and contact with skin and eyes. Do not use on (or cause exposure to) kittens under 12 weeks of age.

Potential short term health effects: Eye, Skin contact, Inhalation, Ingestion.
- Eye: May cause irritation.
- Skin: May cause irritation.
- Inhalation: Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
- Ingestion: May cause stomach distress, nausea or vomiting.

Target organs: Eyes. Respiratory system. Skin.
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.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Pyrethrin</td>
<td>8003-34-7</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>

Composition comments: Active ingredients are listed above.

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. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Notes to physician
Symptoms may be delayed.

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 and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media
Foam. Carbon dioxide.

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.

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.

Methods for containment
Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material.

Storage
Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s) | Exposure Limits
--- | ---
Piperonyl butoxide | ACGIH-TLV
| Not established
| OSHA-PEL
| Not established

Pyrethrin | ACGIH-TLV
| TWA: 5 mg/m3
| OSHA-PEL
| TWA: 5 mg/m3

Engineering controls
General ventilation normally adequate.
9. Physical & Chemical Properties

**Appearance**  Powder
**Color**  White
**Form**  Powder
**Odor**  Insecticide
**Odor threshold**  Not available
**Physical state**  Solid
**pH**  Not available
**Freezing point**  Not available
**Boiling point**  Not applicable
**Flash point**  > 93.33 °C (> 200 °F) Tag Closed Cup
**Evaporation rate**  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
**Octanol/water coefficient**  Not available
**Solubility (H2O)**  Insoluble
**Auto-ignition temperature**  Not available
**VOC (Weight %)**  Not available
**Viscosity**  Not applicable
**Percent volatile**  Not available

10. Chemical Stability & Reactivity Information

**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.
**Possibility of hazardous reactions**  Hazardous polymerization does not occur.

11. Toxicological Information

**Component analysis - LC50**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piperonyl butoxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Pyrethrin</td>
<td>3.4 mg/l/4h rat</td>
</tr>
</tbody>
</table>

**Component analysis - Oral LD50**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piperonyl butoxide</td>
<td>2600 mg/kg mouse; 6150 mg/kg rat; 2650 mg/kg rabbit</td>
</tr>
<tr>
<td>Pyrethrin</td>
<td>200 mg/kg rat; 273 mg/kg mouse</td>
</tr>
</tbody>
</table>
Effects of acute exposure

Eye
May cause irritation.

Skin
May cause irritation.

Inhalation
Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion
May cause stomach distress, nausea or vomiting.

Sensitization
Non-hazardous by OSHA criteria.

Chronic effects
Non-hazardous by OSHA criteria.

Carcinogenicity
Non-hazardous by OSHA criteria.

ACGIH - Threshold Limits Values - Carcinogens
Pyrethrin 8003-34-7 A4 - Not Classifiable as a Human Carcinogen
IARC - Group 3 (Not Classifiable)
Piperonyl butoxide 51-03-6 Supplement 7 [1987], Monograph 30 [1983]

Mutagenicity
Non-hazardous by OSHA criteria.

Reproductive effects
Non-hazardous by OSHA criteria.

Teratogenicity
Non-hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data
Pyrethrin 8003-34-7 96 Hr LC50 Oncorhynchus mykiss: 54 mg/L; 96 Hr LC50 Lepomis macrochirus: 0.058 mg/L [static]

Environmental effects
This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

Aquatic toxicity
Not available

Persistence / degradability
Not available

Bioaccumulation / accumulation
Not available

Partition coefficient
Not available

Mobility in environmental media
Not available

Chemical fate information
Not available

13. Disposal Considerations

Waste codes
Not available

Disposal instructions
Dispose in accordance with all applicable regulations. IF EMPTY: Nonrefillable container. Do not reuse or refill the container. Offer for recycling, if available. IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEAN-UP 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

Department of Transportation (DOT)
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.

EPA registration number 2517-95

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Pyrethrin 8003-34-7 1 Lb final RQ (listed under Pyrethrins); 0.454 kg final RQ (listed under Pyrethrins)
Piperonyl butoxide 51-03-6 1.0 % de minimis concentration
Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

Yes

CERCLA (Superfund) reportable quantity

Pyrethrin: 1.0000

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

Yes

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Not available

Safe Drinking Water Act (SDWA)

Not available

Drug Enforcement Agency (DEA)

Not available

Food and Drug Administration (FDA)

Not available

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

Recommended use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Issue date

15-Jan-2008

Effective date

15-Jan-2008

Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021