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## MATERIAL SAFETY DATA SHEET

**Product:** Sergeant's Flea & Tick Mousse for Cats

**Code:** 50159

**U.P.C. #:** 0 73091 02171 1

**Size:** 200g

**P.C.P. Act Registration No:** 25193

**Chemical Family:** Permethrin / Pyrethrins

**Chemical Name:** Permethrin / Pyrethrins (PYR) / Isobutane / Ethanol / Propane

### SECTION 2 – HAZARDOUS INGREDIENTS

INGREDIENT	CONTENT	CAS-NUMBER	EXPOSURE LIMITS
Permethrin	0.050%	52645-53-1	Not Available
Pyrethrins (PYR)	0.056%	8003-34-7	5mg/m <sup>3</sup>
Ethanol	10 – 30%	64-17-5	1000ppm
Isobutane	1 - 5%	75-28-5	800ppm
Propane	0.1 – 1.0%	74-98-6	1000ppm

### SECTION 3 – PHYSICAL PROPERTIES

**Physical Form:** Aerosol

**Appearance:** Yellow Emulsion

**Color:** Yellow

**Odor:** Fragrant

**PH:** 8.5–9.5

**Boiling Point:** 78.5°C

**Melting/Freezing Point:** Not Applicable

**Solubility in Water:** Soluble

**Specific Gravity:** 0.91-0.95

**Bulk Density:** Not Applicable

**% Volatile By Weight:** 97-98%

**Evaporation Rate:** Greater Than 1

**Vapor Pressure:** 40 – 50 @ 20°C

**Vapor Density:** Greater Than 1

**SECTION 4 - FIRE AND EXPLOSION**

**Flash Point:** 13

**Flammable Limits:** Non-Flammable

**Upper Explosive Limit (UEL) (%):** 19

**Lower Explosive Limit (LEL) (%):** 3.3

**Auto-Ignition Temperature:** 422 °C

**Extinguishing Media:** Carbon Dioxide, Dry Chemical or Foam

**Special Fire Fighting Procedures:** Water from fogging nozzles may be used to cool closed containers to prevent build-up if exposed to extreme temperatures. Full protective equipment including self contained breathing apparatus should be worn in a fire involving this material.

**Unusual Fire/Explosion Hazards:** Hydrocarbon fumes and smoke. Carbon Monoxide where combustion is incomplete.

**SECTION 5 - HUMAN HEALTH DATA**

**Route of Entry:** Inhalation (Isobutane) LC50 520,000ppm (2 hr) (Mouse), Inhalation (Ethanol) LC50 31,623ppm (4 hr) (Rat), Ingestion (Permethrin) LD50>2500 mg/kg (Rat), Ingestion (Pyrethrins) LD50>1680 mg/kg (Rat), (Ethanol) LD50 7060 mg/kg (Rat)

**Humans Effects and Symptoms of Overexposure:**

**Acute Effects of Exposure:** Dizziness, nausea, vomiting, weakness and irritation to skin and eyes.

**Chronic Effects of Exposure:** Solvents may cause defatting dermatitis.

**Carcinogenicity:** None of the components in this product are known to be carcinogenic.

**Medical Conditions:** May cause headache, dizziness, nausea, vomiting, weakness and irritation to skin and eyes.

**Aggravated by Exposure:** Not Noted

**SECTIONS 6 - EMERGENCY AND FIRST AID PROCEDURES:**

**First Aid for Eyes:** Immediately flush with flowing water for at least 15 minutes. If irritation persists, get medical attention.

**First Aid for Skin:** Wash immediately with soap and water. Remove contaminated clothing. If irritation occurs, get medical attention.

**First Aid for Inhalation:** If affected by inhalation of vapor or spray mist, remove patient to fresh air.

**First Aid for Ingestion:** Do not induce vomiting and consult a physician.

**Note to Physician:** Do not induce vomiting.

**SECTION 7 - EMPLOYEE PROTECTION RECOMMENDATIONS:**

**Eye Protection Requirements:** Safety Glasses

**Skin Protection Requirements:** Not normally required

**Respirator Requirements:** Not normally required

**Additional Protective Measures:** Wash hands thoroughly after handling product.

## **Sergeant's Flea & Tick Mousse for Cats**

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### **SECTION 8 - REACTIVITY DATA:**

**Stability:** This is a stable material

**Hazardous Polymerization:** Will not occur

**Incompatibilities:** Water, acidic or alkaline conditions and strong oxidizers

**Instability Conditions:** Elevated temperatures, 40°C and above

**Decomposition Products:** Hydrocarbon fumes and smoke. Carbon Monoxide where combustion is incomplete.

### **SECTION 9 - SPILL AND LEAK PROCEDURES:**

**Spill Or Leak Procedures:** Remove all sources of ignition. Use an inert absorbent material and non-sparking tools. Avoid breathing fumes. Ventilate areas. Prevent from entering a water course. Clean area with detergent and water, absorb wash and place in waste container.

**Waste Disposal Method:** Do not reuse container. Do not puncture or incinerate containers, even when empty. For large quantities, product should be disposed of in accordance with provincial requirements. For additional information on the disposal of unused, unwanted product and the clean up of spills, contact the Regional Office of Conservation and protection, Environment Canada.

### **SECTION 10 - SPECIAL PRECAUTIONS & STORAGE DATA:**

**Storage Temperature:** Min: None Max: 50°C

**Shelf Life:** Not Noted

**Special Sensitivity:** Keep away for heat, sparks and open flames.

**Handling/Storage Precautions:** Store in cool, dry, ventilated area. Keep out of reach of children and pets.

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**Issue Date: January 1<sup>st</sup>, 2005**