
MATERIAL SAFETY DATA SHEET

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

1. Company and Product Identification

| | | |
|----------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Product: | Bioganic Safety Brands™ Flying Insect Killer UPC Code: 79000241201 | Emergency Telephone Number: InfoTrac Chemical Response System (800) 535-5053 (24 hours) |
| Manufacturer: | Bioganic Safety Brands, Inc. 318 Seaboard Lane, Suite 202 Franklin, TN 37067 | For General Information: (888) 326-7233 (9am to 5pm EST) |

2. Ingredients

| <u>Ingredient Name</u> | <u>% by weight</u> | <u>CAS #</u> | <u>Exposure Limits</u> |
|------------------------|--------------------|--------------|------------------------|
| Eugenol (Clove Oil) | 6.00% | 97-53-0 | None established |
| Sesame Oil | 1.00% | 8008-74-0 | None established |
| Other Ingredients | 93.00% | None | None established |

3. Hazards Identification

Overview:

- Colorless liquid with floral scent in an aerosol container.
- Contents of container are under pressure (55 to 65 psig @ 68°F). Exposure to temperatures above 130°F may cause bursting.
- Container contents (propellants) are flammable. Keep away from ignition sources and hot surfaces.
- Burning may produce toxic by-products.

Potential Health Effects: Prolonged exposure to this product may cause dry skin, eye/nasal irritation, dizziness, headache or nausea.

4. First Aid Measures

Eyes: Flush with water for at least 15 minutes.
Skin: Wash exposed area with soap and water. Remove contaminated clothing.
Inhalation: Move exposed person(s) to fresh air.
Ingestion: Rinse mouth out with water. Do not induce vomiting. Obtain medical attention.

5. Fire Fighting Measures

- Flashpoint (active ingredient):**..... greater than 172°F (closed cup)
- Flammable Limits:**..... Not tested, but aerosol is very flammable
- Extinguishing Media:**..... Carbon Dioxide, Dry Chemical or foam
- Fire and Explosion Hazards:**..... Container contents are flammable and under pressure. Exposure to temperatures above 130°F could cause bursting.
- Special Fire Fighting Procedures:**..... Keep containers cool to prevent bursting. Firefighters should have eye protection and wear self-contained breathing apparatus.
- Hazardous Decomposition Products:**..... Thermal decomposition may produce carbon monoxide and carbon dioxide.
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6. Spill/Leak Procedures

Should the container begin to leak (if accidentally punctured for example) allow the contents to discharge completely in a well-ventilated area that is free from sparks and other ignition sources. When the contents have been completely discharged, absorb any liquid residue with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

7. Handling and Storage

Store in a cool, dry place. Do not use or store near heat, flames or hot surfaces. Do not use product on or in electrical equipment. Foods and eating utensils should be removed or covered when this product is used. Food processing equipment should be covered and/or wiped down after use. No smoking or eating in the product handling area. Keep out of the reach of children and animals.

8. Exposure Control/Personal Protection

- Ventilation:**..... Local exhaust ventilation is not required. If large quantities (greater than 24 cans) are used indoors during a single application, ensure adequate mechanical ventilation.
- Respiratory Protection:**..... Not required with adequate ventilation. If ventilation is poor and large quantities are being applied (greater than 24 cans), wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).
- Eye Protection:** Not required. Safety glasses are recommended during volumetric treatments.
- Gloves:**..... Not required.
- Other Protective equipment:**..... Not required.

9. Physical Properties

Appearance: Colorless liquid while in container – when discharged, colorless aerosol.
Odor:..... Floral scent **Freezing point:**..... 17°F (approx.)
Boiling point:..... >392°F **Vapor density:**..... 5.26 (air=1)
Specific gravity:..... 0.76 – 0.80 (water = 1) **Evaporation rate:**..... less than n-butyl acetate

10. Stability and Reactivity

Chemical Stability: Stable **Hazardous Polymerization:**..... Will not occur
Conditions/Materials to Avoid (Incompatibility):..... Temperatures above 130°F, ignition sources, and strong oxidizing agents.

11. Toxicological Information

Rat Acute Oral: LD50 > 5000 mg/kg
Acute effects from Overexposure: This product has low oral and dermal toxicity. Prolonged contact with the skin may cause dryness, and contact with the eyes may cause eye irritation. Inhalation of the aerosol may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.
Chronic Effects from Overexposure: No data are available.
Carcinogenicity: **NTP:** No **OSHA:** No

12. Environmental Information

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

13. Disposal

The aerosol container is not refillable. When container is empty, recycle if available. If recycling is not possible, wrap the container and dispose of with ordinary trash.

14. Transportation Information

Proper Shipping Name: Consumer Commodity

DOT Hazard Class: ORM-D

15. Regulatory Information

NFPA Ratings:

Health - 1 Fire - 4 Reactivity - 1 Special - none

SARA Title III:

This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.