



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 271-003
Product name **Bug Buster Insect Killer**
Effective date 02-Dec-2009
Company information Claire Manufacturing Co.
500 Vista Ave.
Addison, IL 60101 United States
Company phone General Assistance 630-543-7600
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 05
Supersedes date 08-Aug-2008

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol. Will be easily ignited by heat, spark or flames. Prolonged exposure may cause chronic effects.

Potential health effects

Eyes Health injuries are not known or expected under normal use. Contact with eyes may cause irritation.

Skin Health injuries are not known or expected under normal use. Harmful if absorbed through the skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely.

Target organs Central nervous system.

Chronic effects May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

Signs and symptoms Narcosis.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--|------------|---------|
| Propane | 74-98-6 | 10 - 15 |
| n-Butane | 106-97-8 | 10 - 15 |
| Paraffinic, Naphthenic Solvent | 64742-47-8 | 5 - 8 |
| Piperonyl Butoxide | 51-03-6 | 1 - 3 |
| Non-hazardous and other components below reportable levels | | 60 - 80 |

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Ingestion Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. Fire Fighting Measures

| | |
|--|--|
| Flammable properties | Vapor or gas may spread to distant ignition sources and flash back. |
| Extinguishing media | |
| Suitable extinguishing media | Water fog. Foam. Dry chemical. Carbon dioxide (CO ₂). |
| Protection of firefighters | |
| Specific hazards arising from the chemical | Fire may produce irritating, corrosive and/or toxic gases. |
| Protective equipment and precautions for firefighters | In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. |

6. Accidental Release Measures

| | |
|--------------------------------|--|
| 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. Move the cylinder to a safe and open area if the leak is irreparable. |
| Methods for cleaning up | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. |

7. Handling and Storage

| | |
|-----------------|---|
| Handling | Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Avoid prolonged exposure. |
| Storage | Level 1 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children. |

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

| Components | CAS # | TWA | STEL | Ceiling |
|------------|----------|----------|-----------------|-----------------|
| Propane | 74-98-6 | 1000 ppm | Not established | Not established |
| n-Butane | 106-97-8 | 1000 ppm | Not established | Not established |

OSHA

| Components | CAS # | TWA | STEL | Ceiling |
|------------|---------|----------|-----------------|-----------------|
| Propane | 74-98-6 | 1000 ppm | Not established | Not established |

Personal protective equipment

| | |
|-------------------------------|--|
| Eye / face protection | Wear chemical goggles. |
| Skin protection | Protective gloves. Wear chemical protective equipment that is specifically recommended by the manufacturer. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |

9. Physical & Chemical Properties

| | |
|---------------------------|------------------------------|
| Appearance | Compressed liquefied gas. |
| Boiling point | 163.4 °F (72.8 °C) estimated |
| Color | White. |
| Flammability (HOC) | 14.747 kJ/g estimated |
| Flash back | No |
| Flash point | -76 °F (-60 °C) estimated |
| Form | Aerosol. |
| Odor | Aromatic. |

pH 6.12 - 7.12
Physical state Liquid.
Pressure 83 - 93 psig @70F
Solubility Partially
Specific gravity 0.8189 estimated

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition. Stable at normal conditions.
Conditions to avoid Heat, flames and sparks.
Hazardous decomposition products May include oxides of nitrogen.

11. Toxicological Information

Acute effects Acute LD50: 5965 mg/kg estimated, Rat, Dermal
Acute LC50: 74 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

| | | |
|--------------------------------|------------|--|
| n-Butane | 106-97-8 | Inhalation LC50 Rat 658 mg/L 4 h |
| Paraffinic, Naphthenic Solvent | 64742-47-8 | Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg |
| Piperonyl Butoxide | 51-03-6 | Oral LD50 Rat 6150 mg/kg; Dermal LD50 Rat >7950 mg/kg |
| Propane | 74-98-6 | Inhalation LC50 Rat 658 mg/L 4 h |

Sensitization Not expected to be hazardous by OSHA criteria.
Teratogenicity Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity LC50 638 mg/L estimated, Fish, 96.00 Hours,
Components of this product have been identified as having potential environmental concerns.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F
Disposal instructions Contents under pressure. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

IMDG**Basic shipping requirements:**

Proper shipping name AEROSOLS
Hazard class 2.1
UN number 1950
Additional information:
Packaging exceptions LTD QTY
Item 5F
Labels required None
Transport Category 2

**IATA****Basic shipping requirements:**

Proper shipping name Aerosols, flammable
Hazard class 2.1
UN number 1950
Additional information:
Packaging exceptions LTD QTY
Labels required 2.1

**15. Regulatory Information****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

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

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of New and Existing Chemicals (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | Yes |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | 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**U.S. - Pennsylvania - RTK (Right to Know) List**

| | | |
|--------------------------------|------------|---------|
| n-Butane | 106-97-8 | Present |
| Paraffinic, Naphthenic Solvent | 64742-47-8 | Present |
| Propane | 74-98-6 | Present |

16. Other Information

HMIS® ratings

Health: 1
Flammability: 2
Physical hazard: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication, The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MSDS sections updated

Product and Company Identification: Product and Company Identification
Hazards Identification: Skin
Regulatory Information: United States

Prepared by

Regulatory Compliance