



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 271  
**Product name** Bug Buster Insect Killer  
**Effective date** 08-Aug-2008  
**Company information** Claire Manufacturing  
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 #** 04  
**Supersedes date** 13-Nov-2007

## 2. Hazards Identification

**Emergency overview** CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame.  
Prolonged exposure may cause chronic effects.

**Potential health effects**

**Eyes** Health injuries are not known or expected under normal use.

**Skin** Health injuries are not known or expected under normal use.

**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.

## 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    | 3 - 5   |
| 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

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.  |
| <b>Extinguishing media</b>                                   |  |
| <b>Suitable extinguishing media</b>                          | Water fog. Foam. Dry chemical. Carbon dioxide (CO2).   |
| <b>Protection of firefighters</b>                            |  |
| <b>Specific hazards arising from the chemical</b>            | Fire may produce irritating, corrosive and/or toxic gases.   |
| <b>Protective equipment and precautions for firefighters</b> | 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

|                                |  |
|--------------------------------|--|
| <b>Methods for containment</b> | 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. |
| <b>Methods for cleaning up</b> | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.   |

## 7. Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | 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.                           |
| <b>Storage</b>  | Level 1 Aerosol.<br>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

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

## 9. Physical & Chemical Properties

|                           |                              |
|---------------------------|------------------------------|
| <b>Appearance</b>         | Compressed liquefied gas.    |
| <b>Boiling point</b>      | 147.2 °F (63.9 °C) estimated |
| <b>Color</b>              | White.                       |
| <b>Flammability (HOC)</b> | 13.369 kJ/g estimated        |
| <b>Flash back</b>         | No                           |
| <b>Flash point</b>        | -76 °F (-60 °C) estimated    |
| <b>Form</b>               | Aerosol.                     |
| <b>Odor</b>               | 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<br>Acute LC50: 73 mg/l/4h estimated, Rat, Inhalation |
| Sensitization        | Not expected to be hazardous by OSHA criteria.   |
| Reproductive effects | 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,<br>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                |
| <b>Additional information:</b> |                     |
| 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 |
| 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**

Hazards Identification: Emergency overview

Handling and Storage: Storage

Physical & Chemical Properties: Physical & Chemical Properties

Transport Information: Agency Name and Packaging Type/Transport Mode Selection

Regulatory Information: United States