

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product number CP-668  
Product name **BADGER PROPEL**  
Effective date 03-Jun-2008

Emergency telephone US 1-866-836-8855  
Emergency telephone outside US 703-527-3887  
Version # 03  
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. Contact with liquefied gas may cause frostbite.

**Skin** Health injuries are not known or expected under normal use. Contact with liquefied gas may cause frostbite.

**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 |
|--------------------|---------|---------|
| 1,1-Difluoroethane | 75-37-6 | > 90    |

## 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. Continue rinsing. Get medical attention if irritation develops or persists.

**Skin contact** Immediately take off all contaminated clothing. Rinse skin with water.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

## 5. Fire Fighting Measures

**Flammable properties** Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

**Extinguishing media**

**Suitable extinguishing media** Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Protection of firefighters**

**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. Cool containers with flooding quantities of water until well after fire is out.

## 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. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

### Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

## 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. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. 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. Do not handle or store near an open flame, heat or other sources of ignition. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit. Refrigeration recommended.

## 8. Exposure Controls / Personal Protection

### Personal protective equipment

#### Eye / face protection

Not normally needed.

#### Skin protection

No special protective equipment required.

#### Respiratory protection

No personal respiratory protective equipment normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

## 9. Physical & Chemical Properties

### Appearance

Compressed liquefied gas.

### Boiling point

-13 °F (-25 °C) estimated

### Color

Colorless.

### Flammability (HOC)

6.3 kJ/g estimated

### Flash back

No

### Flash point

-58 °F (-50 °C) estimated

### Form

Aerosol.

### Odor

None.

### pH

Not applicable

### Physical state

Gas.

### Pressure

60 - 70 psig @ 70F

### Solubility

Partially

### Specific gravity

0.9 estimated

## 10. Chemical Stability & Reactivity Information

### Conditions to avoid

Heat, flames and sparks.

### Hazardous decomposition products

No hazardous decomposition products are known.

## 11. Toxicological Information

### 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

This product has no known eco-toxicological effects.

### 13. Disposal Considerations

|                              |   |
|------------------------------|---|
| <b>Waste codes</b>           | D001: Waste Flammable material with a flash point <140 F  |
| <b>Disposal instructions</b> | Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container at hazardous or special waste collection point. 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:**

|                                |                    |
|--------------------------------|--------------------|
| <b>Proper shipping name</b>    | 1,1-Difluoroethane |
| <b>Hazard class</b>            | 2.1                |
| <b>UN number</b>               | 1030               |
| <b>Additional information:</b> |                    |
| <b>Special provisions</b>      | DOT-SP 11516       |



#### IMDG

**Basic shipping requirements:**

|                                |          |
|--------------------------------|----------|
| <b>Proper shipping name</b>    | AEROSOLS |
| <b>Hazard class</b>            | 2.1      |
| <b>UN number</b>               | 1950     |
| <b>Additional information:</b> |          |
| <b>Packaging exceptions</b>    | LTD QTY  |
| <b>Labels required</b>         | None     |



#### IATA

**Basic shipping requirements:**

|                                |                     |
|--------------------------------|---------------------|
| <b>Proper shipping name</b>    | Aerosols, flammable |
| <b>Hazard class</b>            | 2.1                 |
| <b>UN number</b>               | 1950                |
| <b>Additional information:</b> |                     |
| <b>Packaging exceptions</b>    | LTD QTY             |
| <b>Labels required</b>         | None                |



### 15. Regulatory Information

|                               |  |
|-------------------------------|--|
| <b>US federal regulations</b> | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>CERCLA/SARA Hazardous Substances - Not applicable. |
|-------------------------------|--|

#### Occupational Safety and Health Administration (OSHA)

|  |     |
|--|-----|
| <b>29 CFR 1910.1200 hazardous chemical</b> | Yes |
|--|-----|

#### CERCLA (Superfund) reportable quantity

None

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

|                          |   |
|--------------------------|---|
| <b>Hazard categories</b> | Immediate Hazard - No<br>Delayed Hazard - Yes<br>Fire Hazard - Yes<br>Pressure Hazard - Yes<br>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) | Yes                    |
| 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)   | Yes                    |
| Korea                       | Existing Chemicals List (ECL)                              | Yes                    |
| 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)

## 16. Other Information

### Further information

HMIS® is a registered trade and service mark of the NPCA.

### HMIS® ratings

Health: 1\*  
Flammability: 1  
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.

### MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

