Safety Data Sheet

Issue Date: 15-Jan-2011 **Revision Date:** 06-Dec-2017 **Version** 2

1. IDENTIFICATION

Product Identifier
Product Name Badger Propellant Can

Other means of identification
SDS # NAP00023

UN/ID No UN1030

Recommended use of the chemical and restrictions on use
Recommended Use Used for kitchen and bath refinishing.

Details of the supplier of the safety data sheet
Manufacturer Address
North America Polymer Company, Ltd.
7315 Hamlin Ave
Skokie, IL 60076 USA
Emergency Telephone Number
Company Phone Number 800-888-1081 / 847-779-6464
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Aerosols **Physical state** Compressed Gas **Odor** Slight ether

Classification

Flammable Aerosols	Category 1
Gases Under Pressure	Compressed Gas

Signal Word
Danger

Extremely flammable aerosol
Pressurized container: May burst if heated
Contains gas under pressure; may explode if heated

Precautionary Statements - Prevention
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source

Precautionary Statements - Storage
Protect from sunlight. Store in a well-ventilated place
Do not expose to temperatures exceeding 50 °C/122 °F

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
1,1 difluoroethane	75-37-6	100

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.

Eye Contact Immediately flush with plenty of water for up to 15 minutes. Immediate medical attention is required.

Skin Contact Take off contaminated clothing. Flush area with luke warm water. Do not use hot water. If frostbite has occurred, call a physician.

Inhalation Remove to fresh air. Remove from exposure, lie down. Keep patient warm and at rest. Artificial respiration and/or oxygen may be necessary. Call a physician.

Ingestion Not an expected route of exposure.

Most important symptoms and effects

Symptoms Excessive inhalation may produce dizziness, nausea, headache, and incoordination. Higher exposure may lead to irritation of nose, throat, and lungs with cough, difficulty breathing or shortness of breath, temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation, or abnormal kidney function. Anaesthetic effects, light headedness, confusion, drowsiness, or unconsciousness, irregular heartbeat with strange sensation, heart thumping, apprehension, feeling of fainting or weakness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with special caution.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray, carbon dioxide (CO2), dry chemical, alcohol foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Flammable. Cylinders are equipped with temperature and pressure relief devices but may still rupture under fire conditions. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Vapors may travel to source of ignition and flash back.

Protective equipment and precautions for firefighters

Wear neoprene gloves when handling refuse from fire. Cool containers/ tanks with water spray. During emergency conditions, overexposure to decomposition products may cause a health hazard. If gas exiting container ignites, stop flow of gas. Do not put out the fire unless leak can be stopped immediately. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Self-contained breathing apparatus (SCBA) is required if containers rupture and contents are released under fire condition.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Review Fire Fighting Measures and Handling (Personnel) sections before proceeding with clean up. Evacuate personnel to safe areas. Wear self-contained breathing apparatus (SCBA). Wear appropriate protective clothing and equipment to prevent contact. Ventilate affected area. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Environmental precautions Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Containment If a spill can cause a concentration in excess of 1,000 ppm, turn off valves and ignition sources. Evacuate area. Ventilate area, especially low places where heavy vapors might collect.

Methods for Clean-Up If this product is spilled and not recovered, or is recovered as a waste for treatment or disposal, the CERCLA Reportable Quantity is 100 lbs. (Release of an Unlisted Hazardous Waste with the Characteristic of Ignitability).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Provide sufficient air exchange and/or exhaust in work rooms. Lines and equipment should be pre-tested with nitrogen using soapy water to detect leaks. Handle in accordance with good industrial hygiene and safety practice. Vapors are heavier than air and may travel along the floor and in the bottom of containers. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use non-sparking tools. Take measures to prevent the buildup of electrostatic charge. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep/store only in original container. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Incompatible Materials Alkali metals. Powdered or alkaline earth metals. Powdered metal salts.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,1 difluoroethane 75-37-6	TWA: 1000 ppm	-	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical equipment rated Class I, Group D in Division 1 locations. In Division 2 locations, all spark-producing electrical equipment must be explosion-proof and rated Class I, Group D. Ground all equipment and cylinders before use.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Splash goggles or safety glasses. Face Mask.

Skin and Body Protection Fire protective clothing (NOMEX) with antistatic control should be worn when handling this product. Wear protective gloves and protective clothing. heat insulated gloves and impervious gloves.

Respiratory Protection For rescue and maintenance work in storage tanks use self-contained breathing apparatus.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Compressed Gas		
Appearance	Aerosols	**Odor**	Slight ether
Color	Clear	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	neutral	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	-25 °C / -13 °F	@ 1013 hPa
Flash Point	< -50 °C / < -58 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	16.9 vol%	
Lower Flammability Limit	3.9 vol%	
Vapor Pressure	5960 hPa	@ 25 °C (77 °F)
Vapor Density	2.4 @ 25 °C (77 °F)	(Air=1)
Relative Density	Not determined	
Water Solubility	0.2 g/l	@ 25 °C (77 °F) at 1,013 hPa
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	454 °C / 849 °F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Avoid high temperatures. Open flames.

Incompatible Materials
Alkali metals. Powdered or alkaline earth metals. Powdered metal salts.

Hazardous Decomposition Products
Hydrofluoric acid. Carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes. Contact with liquid or refrigerated gas can cause cold burns and frostbite.

Skin Contact Avoid contact with skin and clothing. Contact with liquid or refrigerated gas can cause cold burns and frostbite.

Inhalation Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Ingestion Not an expected route of exposure.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1,1 difluoroethane 75-37-6	-	-	= 977 g/m^3 (mouse) 2h

Information on physical, chemical and toxicological effects

Symptoms Excessive inhalation may produce dizziness, nausea, headache, and incoordination. Higher exposure may lead to irritation of nose, throat, and lungs with cough, difficulty breathing or shortness of breath, temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation, or abnormal kidney function. Anaesthetic effects, light headedness, confusion, drowsiness, or unconsciousness, irregular heartbeat with strange sensation, heart thumping, apprehension, feeling of fainting or weakness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Carcinogenic potential is unknown.

12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Can be used after re-conditioning. Reclaim by distillation, incinerate, orremove to permitted waste facility. Comply with applicable Federal,State/Provincial and Local Regulations. May be a RCRA Hazardous waste due to the ignitability characteristic. Empty pressure vessels should be returned to the supplier.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
UN/ID No UN1030
Proper Shipping Name 1,1-Difluoroethane
Hazard Class 2.1

IATA Cargo Aircraft only
UN/ID No UN1030
Proper Shipping Name 1,1-Difluoroethane
Hazard Class 2.1

IMDG
UN/ID No UN1030
Proper Shipping Name 1,1-Difluoroethane
Hazard Class 2.1

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1,1 difluoroethane	X	X	X	Present	X	Present	X	X

Legend:
TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*
DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*
EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
ENCS *- Japan Existing and New Chemical Substances*
IECSC *- China Inventory of Existing Chemical Substances*
KECL *- Korean Existing and Evaluated Chemical Substances*
PICCS *- Philippines Inventory of Chemicals and Chemical Substances*
AICS *- Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313
Not determined

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,1 difluoroethane 75-37-6	X	X	

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	1	4	1	Not determined

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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.

End of Safety Data Sheet