

BACKER ROD

Material Safety Data Sheet

Section 1 • IDENTIFIERS

Product Name: Foam Plastics
Product Codes: All Polyolefin Products
Chemical Family: Polyolefin Thermoplastics
Formula: Not Applicable
Effective Date: November 1, 1996

Section 2 • COMPOSITION

Polyethylene CAS# 009002-8804 75–100%

Hazardous Ingredients

Ingredient Name: Isobutane
CAS Number: 000075-20-5
Exposure Limits: 800 ppm TWA (ACGIH)
Concentration: 0–10%

Section 3 • HAZARDS IDENTIFICATION

Emergency Overview

White or colored solid. Poses little or no immediate hazard. Flammable vapors are produced on storage. Toxic fumes are released in fire situations.

Appearance: Flexible Plastic Foam
Odor: No Odor

Potential Health Effects

Eye: Dust may cause irritation or eye injury due to mechanical action. Fumes/vapors emitted during hot-wire cutting may cause eye irritation

Skin: Non-irritating to skin. Skin absorption is unlikely.

Inhalation: Dust may cause irritation to the nose, throat, and lungs. Fumes/vapors generated during hot-wire cutting may cause respiratory irritation. Concentrations of the isobutane blowing agent incidental to proper handling of the product are expected to be well below the ACGIH recommended exposure limit of 800 ppm.

Ingestion: None Determined

Systemic Effects (Other Target Organs): None Determined

Carcinogenicity

NTP: Not Listed
IARC: Not Listed
OSHA: Not Regulated

Medical Conditions Aggravated by Exposure: None Determined

Section 4 • FIRST AID MEASURES

Eye: Flush eyes with clean, lukewarm water (low pressure) occasionally lifting eyelids.

Skin: Wash and soap and water

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention.

Ingestion: Consult physician.

Section 5 • FIRE-FIGHTING MEASURES

Flashpoint: 117°F (isobutane)
Method Used: TOC
Flammability Limits: LFL 1.6% by volume
UFL 8.4% by volume (isobutane)

Extinguishing Media: Water

Special Fire-Fighting Procedures: Full emergency equipment with pressure demand self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 • ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: No special precautions are necessary.

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Section 7 • HANDLING AND STORAGE

Special

Precautions: Flammable vapors of isobutane may be generated during unventilated storage of large amounts of this product (for example, in storage trailers).

Warning: To prevent the build-up of flammable vapors, do not store large quantities of this product in unventilated spaces. Transport bulk shipments of the product in ventilated trailers only.

Warning: To prevent potential fire or explosion, do not weld or apply intense heat to closed containers which contain this product. Open closed containers in a well-ventilated area away from sparks or open flames.

Warning: This product is combustible and should not be exposed to sparks or open flames. Large quantities of this product can burn rapidly and release toxic gases, including carbon monoxide.

Warning: Fabrication methods involving cutting of this product may release isobutane remaining in the foam cell structure. Provide adequate ventilation to ensure that isobutane concentrations remain below the ACGIH Threshold Limit Value (TLV) of 800 ppm and the Lower Flammable Limit of 1.8% in air by volume to protect workers and eliminate the possibility of developing flammable or hazardous concentrations.

**Section 8 • EXPOSURE CONTROLS/
PERSONAL PROTECTION**

Engineering

Controls: Provide general and/or local exhaust ventilation to control airborne isobutane levels below the ACGIH TLV of 800 ppm.

Eye Protection

Requirements: Wear tight-fitting safety goggles if there is a potential for exposure to flying particles.

Skin Protection

Requirements: No special precautions.

Respiratory
Protection

Requirements: No protection is required if isobutane levels are maintained below the ACGIH TLV of 800 ppm. For exposures above the TLV, take into consideration the type of application, environmental concentrations and materials being used concurrently when selecting a respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Exposure

Limits: Not established for products as a whole. Refer to Section 2.

**Section 9 • PHYSICAL AND CHEMICAL
PROPERTIES**

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Form: | Flexible Solid |
| Odor: | No odor. Residual isobutane is colorless, with a gasoline-like or natural gas odor. Butane is reported to be detectable by odor at a range of 1262-5048 ppm (AIHA, 1989). |
| Vapor Pressure: | No Applicable |
| Vapor Density: | Not Applicable |
| Boiling Point: | Not Applicable |
| Solubility in Water: | Insoluble |
| Density: | 0-35 lb/ft ³ |

**Section 10 • STABILITY AND
REACTIVITY**

| | |
|------------------------------|----------------------------|
| Stability: | This is a stable material. |
| Hazardous Polymerization: | Will not occur. |
| Incompatibilities: | Strong oxidizing agents. |
| Decomposition Products: | Carbon |

**Section 11 • TOXICOLOGICAL
INFORMATION**

See Section 3 for potential health effects.

**Section 12 • ECOLOGICAL
INFORMATION**

This product is inert to the environment and is not expected to exhibit any significant biodegradation.

**Section 13 • DISPOSAL
CONSIDERATIONS**

Waste may be reused, recycled, or buried in an approved landfill. Follow all regulatory requirements for disposal.

**Section 14 • TRANSPORTATION
INFORMATION**

| | |
|-------------------------------|---------------------------|
| DOT Shipping Requirements: | Not Regulated |
| Technical Shipping Name: | Polyethylene Plastic Foam |

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Section 15 • REGULATORY INFORMATION

OSHA Status: This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR1910.1200. However, thermal processing and decomposition fumes/vapors from this product may be hazardous as noted in Sections 2 and 3.

CERCKA RQ: None

SARA Title III

Section 302

Extremely

Hazardous

Substances: None

Section 311/312

Hazard Categories: Non-Hazardous

Section 313

Hazard Categories: None

RCRA Status: If discarded in its purchased form this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA it is the responsibility of the product user to determine at the time of disposal, whether the product should be classified as a hazardous waste (40 CFR 261.20-24).

State Right-To-Know: The following product components are listed by certain states as hazardous substances noted below.

Isobutane: NJ1, NJ3, PA1

NJ1: New Jersey Special Health Hazard Substance

NJ3: New Jersey Workplace Hazard Substance

PA1: Pennsylvania Hazardous Substance

National

Fire Protection

Association

(NFPA) Ratings: Health 0

Flammability 1

Reactivity 0

Canadian

Regulations: This product is not a "Controlled Product" under WHMIS.