



**Bamberger Polymers, Inc.**

Two Jericho Plaza, Suite 109  
Jericho, New York 11753

## Material Safety Data Sheet

### SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** High Density Polyethylene (HDPE) Homopolymer  
**Chemical family:** Olefinic Polymer  
**Product use:** Various Consumer products & Industrial applications.  
**Supplier:** Bamberger Polymers, Inc.  
Two Jericho Plaza, Suite 109  
Jericho, NY 11753

**Business Contact phone:** 1 (800) 888-8959

### SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	CAS #	% by weight
1-Hexene w/ ethane Copolymer	9002-88-4	> 95

*\*Compositions are typical values not specifications*

### SECTION 3 HAZARD IDENTIFICATION

**Physical/Chemical Hazards** This product has been evaluated and does not require any hazard warning on the label under the established regulatory criteria. High levels of dust have the potential for combustion or explosion.

**Human Health Hazards** Handling and/or processing of this material may generate dust which may cause mechanical irritation of the eyes, skin, nose and throat. High dust concentrations have a potential for combustion or explosion.

#### Potential health effects

**Routes of entry** Skin contact, eye contact, inhalation, ingestion.

**Skin:** No significant irritation expected other than possible mechanical irritation. Heated material can cause serious thermal burns. At high process temperatures, fumes may lead to irritation of the nose and throat.

**Eyes:** No significant effect expected other than possible mechanical irritation. May cause skin irritation that may manifest itself as local redness with possible discomfort. Heated material can cause thermal burns. When heated, vapors formed may be irritating to the eye.

**Inhalation:** Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of upper respiratory tract. If heated excessively the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.

**Ingestion:** May cause diarrhea, nausea or abdominal discomfort.

## **SECTION 4 FIRST AID MEASURES**

- Eye contact:** Flush eyes with clean, low-pressure water for at least 15 minutes. Seek medical assistance for mechanical removal of this material from the eye.
- Skin contact:** If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to peel polymer from the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention.
- Inhalation:** Remove victim to well-ventilated area. If not breathing, give artificial respiration. If difficulty breathing, provide give oxygen. If difficulty persists, get medical attention.
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

## **SECTION 5 FIRE FIGHTING MEASURES**

- Flammability of the product:** May be combustible at high temperature.
- Flash point:** >300°C - decomposition occurs and flash of fumes may occur.
- Products of combustion:** Burning can produce carbon monoxide and carbon dioxide. May also contain low levels of ketones, aldehydes, organic acids and hydrocarbons.
- Fire/explosion hazards:** This material is not explosive as defined by established regulatory criteria.
- Extinguishing media:** High dust concentrations have a potential for combustion or explosion. In case of fire, use water spray (fog), foam or dry chemicals. DO NOT use water jet.
- Firefighting protection:** Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## **SECTION 6 ACCIDENTAL RELEASES MEASURES**

- Personal precautions:** In case of a large spill, contact emergency personnel. Eliminate all ignition sources. Granules spilled on the floor can cause slipping. Fine dust clouds may form explosive mixtures with air. Do not touch or walk through spilled material. Use suitable protective equipment.
- Environmental precaution and clean-up methods:** If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Avoid contact of spilled material with soil and prevent runoff entering sewers and waterways.
- Personal protection in case of a large spill:** Personnel should wear protective clothing and chemical/dust goggles.

## **SECTION 7 HANDLING AND STORAGE**

- Handling:** Keep away from heat, sparks or any ignition source. There is a risk of being splashed with molten materials. Do not inhale fumes or vapor from molten product. Use with adequate ventilation. When handling hot material, wear protective gloves, clothing and face shield that are able to withstand the temperature of the molten product. After handling, always wash hands thoroughly with soap and water. Pneumatic conveying of powder and pellets can generate large static electrical charges. Electrical discharge in presence of air can cause an explosion. Earth all equipment. High dust concentrations have a potential for combustion or explosion. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

**Storage:** Keep container dry and tightly closed. Store in a cool, well-ventilated area. Keep away from strong oxidizing agents.

The main hazards are related to pallet stock slippage and forklift truck maneuvers, which can cause injury to personnel. It is recommended that adequate procedures covering storage handling of pallets are established and maintained. Best practice is to stack pallets no more than 2 high.

## **Section 8 PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** Granular solid. Pellet, powder or flake.  
**Odor:** Odorless  
**Color:** White, translucent or colorless.  
**Melting point range:** 118 - 135°C  
**Auto Ignition Temperature:** > 340°C  
**Lower flammable limit:** NA  
**Upper flammable limit:** NA  
**Volatility:** Negligible  
**Solubility (in water):** Insoluble  
**Flash Point:** > 300°C - decomposition occurs and flash of fumes may occur.

## **SECTION 9 STABILITY AND REACTIVITY**

**Chemical Stability and Reactivity:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to avoid:** Avoid excessive temperatures, strong oxidizers, and all possible sources of ignition (spark or flame). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

**Incompatibility with various Substances:** None identified.

**Decomposition products:** Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. Degradation products may include trace amounts of ketones, aldehydes, organic acids and hydrocarbons.

**Hazardous polymerization** Not expected to occur.

## **SECTION 10 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control Measures:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Hygiene measures:** Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

### *Personal protection*

**Eyes:** Safety glasses with side shields are required as minimum requirements. Use dust service goggles if high dust concentration is generated.

**Skin:** Hot material: Wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product. Cold material: None required; however, use of protective clothing is good industrial practice.

**Respiratory:** Product processing, heat sealing of film, or operations involving the use of heated wires or blades may produce dust, vapor or fumes. To minimize risk of overexposure to dust, vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator that will protect against dust/mist.

**Hands:** Hot material: Wear heat-resistant protective gloves that are able to withstand the temperature of molten product. Cold material: None required; however, use of gloves is good industrial practice. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions. Consult your supervisor or standard operating procedures for special handling directions.

**Consult local authorities for acceptable exposure limits.**

## **SECTION 11 TOXOLOGICAL INFORMATION**

The toxicological properties of this product have not been tested or have not been tested completely and its handling or use may be hazardous. Exercise due care. T

## **SECTION 12 ECOLOGICAL INFORMATION**

**Persistence/degradability:** Not inherently biodegradable.

**Mobility:** This product is lighter than water and will float on the surface. This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility. This material is not volatile and insoluble in water.

**Bio-accumulative potential:** This product is not expected to bio-accumulate through food chains in the environment.

**Other ecological Information:** Wildlife may ingest plastic pellets or bags. Although not toxic, such materials may physically block the digestive system, causing starvation or death.

## **SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste information:** Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

**Consult your local or regional authorities.**

## **SECTION 14 TRANSPORT INFORMATION**

US DOT – Class not regulated.

This information is not intended to convey all specific regulatory or operational requirements/ information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## **SECTION 15 INVENTORY INFORMATION**

US Inventory (TSCA): In compliance.

Canada Inventory (DSL): In compliance.

European Union (EINECS): Product exempt from inventory listing requirements.

## **SECTION 16 OTHER INFORMATION**

### **NFPA RATINGS**

**Health – 0**

**Flammability – 1**

**Reactivity – 0**

**Special - NA**

**NOTICE:** This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Bamberger Polymers, Inc.

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