



## 1. MATERIAL IDENTIFICATION

Company

The Greenstreak Group, Inc.  
3400 Treecourt Industrial Blvd.  
St. Louis, MO 63122

24 Hour Emergency Response Information

CHEMTREC: (800) 533 2248

Product Name: ALATHON Polyethylene Resins  
Chemical Name: Ethylene homopolymer and copolymer  
CAS REGISTRY #: 9002-88-4 (Base Polymer)  
DOT Hazard Class: Not Regulated  
Shipping Name: Polymeric material

**Greenstreak Product(s): Greenstreak Plastic Keyway**

## 2. HAZARDOUS COMPONENTS

No Components are hazardous as defined by 29CFR1910.1200

CAS No.: N/A  
Concentration: N/A  
OSHA PEL: N/A  
ACGIH TLV: N/A  
ACGIH STEL: N/A

Substances present at a concentration of 0.1% or more classified as a carcinogen by IARC, NTP or OSHA: NONE

Substances subject to the reporting requirements of section 313 of the superfund amendments and reauthorization Act of 1986 and 40CFR part 372: NONE

## 3. PHYSICAL/CHEMICAL DATA

APPEARANCE: White Pellets  
ODOR: Mild Hydrocarbon  
MELTING POINT: 125 – 140C  
SOLUBILITY IN WATER: Negligible  
VOLATILE CONTENT: 0.1% maximum  
SPECIFIC GRAVITY: 0.93 – 0.98 g/cc

## 4. FIRE AND EXPLOSION DATA

**Flash Ignition Temperature: 341 – 365C (ASTM D-1929)**



<b>Unusual Fire Explosion Hazards:</b>	The solid polymer can be combusted only with difficulty. An electrostatic charge can potentially build up when pouring pellets. Grounding of equipment is recommended.
<b>Extinguishing Media:</b>	Water, Carbon Dioxide, foam, dry chemical
<b>Special Fire Fighting Instructions:</b>	Use Self contained breathing apparatus to prevent exposure to products of combustion.

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## 5. HAZARDOUS REACTIVITY

<b>STABILITY AT ROOM TEMP:</b>	STABLE
<b>CONDITIONS TO AVOID:</b>	Temperatures above 325C
<b>MATERIALS TO AVOID:</b>	None Known
<b>HAZARDOUS COMBUSTION DECOMPOSITION PRODUCTS:</b>	Complete combustion give carbon dioxide and water. Incomplete combustion gives carbon monoxide, olefinic and paraffinic compounds and hydrocarbon oxidation products including organic acids, ketones, aldehydes and alcohols.
<b>POLYMERIZATION:</b>	Will Not Occur

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## 6. HEALTH HAZARD DATA

### ACUTE OR IMMEDIATE EFFECTS: ROUTES OF ENTRY AND SYMPTOMS

**INGESTION:** Not a probable route of exposure. The LD-50 in rats of one type of polyethylene is 8 g/kg of body weight. This classifies polyethylene as having low toxicity. Ninety day feeding tests at the 5% level in rats showed no adverse effects.

**SKIN:** Animal tests with polyethylene showed no evidence for skin irritation or sensitization. No dermatitis problem is expected from routine handling of the polymer. Molten polymer contacting the skin will cause thermal burns.

**EYE:** Mechanical Irritation only

**INHALATION:** Polyethylene pellets are not respirable as marketed. At processing temperatures above 325C, fumes irritating to the eyes, nose and throat may be produced. This exposure may result in redness, tearing and itching of the eyes and soreness in the nose and throat together with coughing.

### EMERGENCY FIRST AID

- If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician.
- Wash skin with soap and plenty of water
- Wash eyes with water



- If hot polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for a thermal burn.

**CHRONIC EFFECTS:**

None are known

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

None are known.

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**7. SAFE HANDLING MEASURES**

**VENTILATION:** Local ventilation is recommended over processing equipment.

**EYE:** Safety glasses are recommended as good industrial hygiene practice

**SKIN:** Protective gloves and a long sleeve shirt are required when handling hot polymer

**RESPIRATOR:** Not needed if local ventilation is available.

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**8. DISPOSAL AND STORAGE**

**SPILL, LEAK or RELEASE:** Pick up spilled polymer to avoid slipping hazard.

**WASTE DISPOSAL:** Incinerate or landfill in accordance with Federal State and local regulation

**AQUATIC TOXICITY:** No information. Toxicity is expected to be low based on the polymer's negligible water solubility

**STORAGE CONDITIONS:** Store in a cool dry place. Keep containers closed to prevent contamination.