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**Section 1: Identification**

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**General:**

Synonyms: polythene, ethylene resin, PE, numerous trade names  
Molecular formula:  $[C_2H_4]_n$  (typical molecular weight 100,000 - 500,000)  
Chemical Family: polyethelene homopolymer  
CAS No: 9002-88-4

**Section 2: Hazard Identification**

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## Emergency Overview

Under normal conditions of storage and handling, this material is not likely to cause adverse health effects. However should conditions exist where dust and fumes are generated from this product, they could be hazardous.

Hazardous Ingredients:	CAS Number	OSHA PEL	ACGIH TLV
Antimony Trioxide	1309-64-4	.05 mg/m3	.05 mg/m3
Arsenic	7440-38-2	.01 mg/m3	.10 mg/m3

**Signal Word:**

Caution

**Section 3: Physical data**

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Appearance: solid; appearance depends upon method of forming; generally available as a pellet or a white powder, or as sheet  
Melting point: 130 - 145 C, depending on molecular weight  
Specific gravity: typically 0.92  
Flash point: NA  
Auto-Ignition Temperature: 343 deg C  
Extinguishing Media: Foam, CO<sub>2</sub>, Dry Chemical, and Water Fog

**Section 4: First Aid Measures**

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**Skin**

If melted material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Obtain immediate medical attention if burn is deep or extensive.

**Ingestion**

Adverse health affects due to ingestion are not anticipated

**Section 5: Fire Fighting measures**

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**Flammable Properties**

Flash point	>300 degrees Centigrade
Extinguishing Media:	Foam, CO <sub>2</sub> , Dry Chemical, and Water Fog
Special Firefighting Procedures	Use self-contained breathing apparatus
Unusual Fire and Explosion Hazards:	Product offers no unusual fire and explosion hazards.

**Stability**

Stable, but breaks down slowly in uv light or sunlight. Incompatible with halogens, strong oxidizing agents, benzene, petroleum ether, aromatic and chlorinated hydrocarbons, lubricating oils.

**Personal protection**

N/A

**Toxicity**

Based on toxicity data, the Enviornmental Protection agency has determined that prolonged exposure to dust and/or fumes from one of the components of this product may cause cancer.

**Section 5: Transport information**

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Non-hazardous for air, sea and road freight.

**Section 6: Disclaimer**

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Top the best of our knowledge the information contained herein is accurate. It is obtained from material suppliers and belived to be true. MSDS information for the constituent products are also available upon request.

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