

**Section 1: Identification****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

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

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, CO₂, Dry Chemical, and Water Fog

Section 4: First Aid Measures**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**Flammable Properties**

Flash point	>300 degrees Centigrade
Extinguishing Media:	Foam, CO ₂ , 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

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

Non-hazardous for air, sea and road freight.

Section 6: Disclaimer

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.