

HMIS (USA)	
Health Hazard	0
Fire Hazard	1
Reactivity	0

MSDS No.: 00000000083  
 Validation Date: 10/16/2001  
 Version No: 1.75

# EQUISTAR

## Material Safety Data Sheet

### PETROTHENE NA951080

#### SECTION 1: IDENTIFICATION

**Product Name:** Polyethylene Homopolymer

**Chemical Name:** Polyethylene Homopolymer

**CAS Number:** 9002-88-4

**Synonyms:** Polyethylene, Polyethylene Homopolymer, PE

**Chemical Family:** Polyethylene Homopolymer

**Manufacturer:** Equistar Chemicals, LP  
 One Houston Center, Suite 1600  
 1221 McKinney St.  
 P.O. Box 2583  
 Houston, Texas 77252-2583

**Telephone Numbers:**  
**Emergency:** CHEMTREC 800 424-9300  
 EQUISTAR 800-245-4532

**Non-Emergency:** CUSTOMER SERVICE  
 888 777-0232  
 PRODUCT SAFETY  
 800 700-0946

#### SECTION 2: COMPOSITION

Component Name	CAS #.						Concentration by		
		OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL	Carcinogenic Listing*	Avg.	Min.	Max.
Polyethylene, Homopolymer	9002-88-4	N/L	N/L	N/L	N/L	N/L		98.0	100.0
Proprietary Additives		N/L	N/L	N/L	N/L	N/L			2.0

\*1 = OSHA 2 = IARC 3 = NTP 4 = Others N/L = Not Listed See Section 11 for more information

#### SECTION 3: HAZARD IDENTIFICATION

**Emergency Overview** The purpose of this MSDS is to transmit important product safety information.

**Signal Word:** CAUTION!

**Hazards:** Dust may form explosive mixtures with air. Molten polymer may cause thermal burns. At process temperatures irritating fumes may be produced.

**Physical State:** Solid

**Color:** Translucent to white.

**Odor:** Faint, mild hydrocarbon odor.

**Potential Health Effects**

**Routes of Exposure:** Eye Ingestion Inhalation Skin.

**Signs and Symptoms of Acute Exposure:** Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat; coughing may result. Mechanical irritation is possible.

- *Polyethylene,  
Homopolymer*

Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat; coughing may result. Mechanical irritation is possible.

**Skin:** Molten polymer may cause thermal burns.

**Inhalation:** Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibit no significant health effect when they are reasonably controlled. Exposure to high concentrations of dust may cause slight irritation by mechanical action.

**Eye:** Mechanical irritation is possible.

**Ingestion:** Ingestion not a likely route of exposure.

**Chronic Health Effects:** No known chronic health effects.

- *Polyethylene,  
Homopolymer*

No known chronic health effects.

**Conditions Aggravated  
by Exposure:**

No known conditions are aggravated by this material.

## SECTION 4: FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 3 of this MSDS.

**Inhalation:** If symptoms are experienced, move victim to fresh air. Obtain medical attention if breathing difficulty persists.

**Eye:** Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

**Skin:** If molten 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 emergency medical attention if burn is deep or extensive.

**Ingestion:** Adverse health effects due to ingestion are not anticipated.

## SECTION 5: FIRE FIGHTING MEASURES

NFPA: Health 0; Fire 1; Reactivity 0; Others:

### Flammability

**Classification:** Not Classified. Polymer will burn but does not easily ignite.

### Flash Point / Method:

Not applicable.

### Auto-Ignition

**Temperature:** 343 °C (650 °F)

### Flammable Limits:

**LOWER:** Not applicable.

**UPPER:** Not applicable.

### Hazardous Combustion

**Products:** Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

### Special Conditions to

**Avoid:** Dust may form explosive mixtures with air.

**Extinguishing Media:** SMALL FIRE: Use DRY chemicals, CO2, water spray LARGE FIRES: Use dry chemicals, CO2, or water spray

**Fire Fighting Instructions:** **Protective Equipment/Clothing:** Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

**INSTRUCTIONS:** Use flooding quantities of water until well after fire is extinguished.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Release Response:** Pick up and retain for recycle or disposal.

**Reportable Quantities:** See Section 15: Regulatory Information.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Keep material off walking surfaces, it may create a slipping hazard. Polymer dust may form explosive mixtures with air. Avoid accumulation of dust in enclosed space. Use in well-ventilated area. Ground and bond equipment to prevent electrostatic charge when transferring product. Control spilled material to prevent runoff to the sewers and the environment. Do not create dust which can burn/explode. Use good housekeeping practices during storage, transfer, handling, and use to avoid excessive dust accumulation/rendering airborne.

**Storage:** Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Ventillate area to prevent accumulation of dust and fumes.

**Personal Protection:**

**Inhalation:** Use appropriate respiratory protection where atmosphere exceeds recommended limits.

**Skin:** Protective clothing such as long sleeves or a lab coat should be worn.

**Eye:** Safety glasses are required as minimum requirements.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** Not applicable. **pH:** Not applicable.

**Vapor Pressure:** Not applicable. **Viscosity:** Not applicable.

**Specific Gravity:** Solid/Liquid: 0.91 - 0.98 (water=1) **Water Solubility:** Insoluble.  
Vapor: Not applicable.

**Octanol/Water Partition Coefficient In Kow:** Specific data not available. **Melting/ Freezing Point:** 104 - 138 °C (219 - 280 °F)

**Evaporation Rate:** Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** The product is stable.

**Conditions to Avoid:** Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

**Incompatibility with:** Material may be softened by some hydrocarbons. Reacts with fluorine gas.

**Hazardous Products of  
Decomposition:**

Not expected to decompose under normal conditions.

**Hazardous Polymerization:**

Not likely.

**Reactions with Air and Water:**

Does not react with air, water or other common materials.

**SECTION 11: TOXICOLOGICAL INFORMATION****Product****Summary:****ACUTE ORAL EFFECTS:** No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.**SKIN EFFECTS:** No adverse effects are expected.**Repeated Dose Toxicity** Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.**Reproductive / Development Effects** Not expected to occur.**Component Summary:**

- *Polyethylene, Homopolymer*

**ACUTE ORAL EFFECTS:** No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.**SKIN EFFECTS:** No adverse effects are expected.**Repeated Dose Toxicity** Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.**Reproductive / Development Effects** Not expected to occur.**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity:**

Ecotoxicity is expected to be minimal based on the low water solubility of polymers. Pellets can be harmful to birds and fish if ingested.

**Environmental Fate:**

No information found in our selected references.

**Bioaccumulation:**

Not expected to occur.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Use only licensed transporters and permitted facilities for waste disposal. Recycle if possible.

**SECTION 14: TRANSPORT INFORMATION****Proper Shipping  
Name:**

Polyethylene, at liquid

**DOT Hazard Class:**

Not Regulated.

**UN/NA ID:**

Not Regulated

**Marine Pollutant:**

No

**Packing Group:**

Not applicable.

**NAER Guidebook:**

Not Regulated

Labels: Not Regulated.

DOT Status: Not Regulated.

**SECTION 15: REGULATORY INFORMATION**

**TSCA:** All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

**TSCA 12(b) Component**

**SARA - Section 313  
Emissions Reporting:**

**Component Summary:****Reporting Threshold**

**SARA - Section 311/312:**

**CERCLA Hazardous  
Substances and their  
Reportable Quantities:**

**Component Summary:****Reportable Quantity**

**California Prop. 65:**

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity it will be listed below.

**SECTION 16: OTHER INFORMATION**

**DISCLAIMER OF  
RESPONSIBILITY:**

CAUTION DO NOT USE EQUISTAR MATERIALS IN APPLICATIONS INVOLVING IMPLANTATION WITHIN THE BODY; DIRECT OR INDIRECT CONTACT WITH THE BLOOD PATHWAY; CONTACT WITH BONE, TISSUE, TISSUE FLUID, OR BLOOD; OR PROLONGED CONTACT WITH MUCOUS MEMBRANES. EQUISTAR MATERIALS ARE NOT DESIGNED OR MANUFACTURED FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES. EQUISTAR WILL NOT PROVIDE TO CUSTOMERS MAKING DEVICES FOR SUCH APPLICATIONS ANY NOTICE, CERTIFICATION OR INFORMATION NECESSARY FOR SUCH MEDICAL DEVICE USE REQUIRED BY FDA REGULATION OR ANY OTHER STATUTE. EQUISTAR MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUITABILITY OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY TISSUES OR FLUIDS.

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**Latest Revision(s):** Conversion to SAP template.

**END OF DOCUMENT**

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