

Date last revised 07/09/2007 By M. Lykins

MSDS-17

I. General Information

Chemical Name & Synonyms High Density Polyethylene	Trade Name & Synonyms: Linear High Density Polyethylene, Champline, Sanalite
Chemical Family Linear High Density Polyethylene	Formula (Ch ₂ -ch ₂) _n
Proper DOT Shipping Name: N/A	DOT Hazard Classification: N/A
Manufacturer: Quadrant EPP USA, Inc. 2120 Fairmont Avenue. Reading, PA 19605 (610) 320-6600	Chemtrec Phone Number 1-800-424-9300

II. Ingredients

Principal Components	Percent	Threshold Limit Value (Units)
Polyethylene (CAS 9002-88-4)	>99%	10 mg/m ³ (total dust)

III. Physical Data

Boiling Point (Deg. F.) N/A	Specific Gravity (H₂O=1) 0.96-0.97
Vapor Pressure (mm Hg) N/A	Percent Volatile By Volume (%)
Vapor Density (Air=1) N/A	Evaporation Rate (Air =1) N/A
Solubility in Water Negligible	pH N/A
Appearance & Odor Waxy Solid, white with waxy odor.	

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) Auto Ignition Temperature (Setchkin) 370°C (700 Deg. F.)	700 Deg. F. (370 Deg. C.) ASTM-D-1929 Method B
Flammable Limits	LEL UEL
N/A	N/A N/A
Extinguishing Media Water, Foam, Carbon Dioxide, Dry Chemical, Synthetic Foams, Alcohol Resistant Foams	
Special Fire Fighting Procedures: Soak thoroughly with water to cool and prevent re-ignition. The smoke can contain polymer fragments of varying composition, in addition to unidentified toxic and/or irritating compounds.	
Unusual Fire & Explosion Hazards Combustion by-products include, but are not limited to, carbon dioxide and carbon monoxide.	

V. Health Hazard Data

OSHA Permissible Exposure Limit 15 mg/m ³ Total dust, 5 mg/m ³ respirable dust	ACGIH Threshold Limit Value 10 mg/m ³ (total dust)
Carcinogen - NTP Program NO	Carcinogen - IARC Program NO

Symptoms of Exposure
None Known

Medical Conditions Aggravated By Exposure

None known, however, seek medical attention if constant irritation occurs. If thermal decomposition occurs, upper respiratory, eye, nose, and throat irritation may result.

Primary Route(s) of Entry
Inhalation of particulates.

Emergency First Aid

Molten material. If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention.

VI. Reactivity Data

STABILITY ___ Unstable
 X Stable

INCOMPATIBILITY

Hazardous ___ May Occur
Polymerization X Will Not Occur

Conditions To Avoid

None Known

Materials To Avoid

Strong oxidizing agents.

Conditions To Avoid

None Known

Hazardous Decomposition Products: Aliphatic Hydrocarbons

VII. Environmental Protection Procedures

Spill Response...Sweep up for Disposal or reuse.

Waste Disposal Method...Incineration or landfill - dispose of in accordance with Federal, State and Local regulations.

VIII. Special Protection Information

Eye Protection

Glasses with side shields in dusty conditions.

Skin Protection

Use insulated gloves when handling molten material.

Respiratory Protection (Specific Type) - NIOSH approved dust respirator recommended. If material is being burned wear an organic respirator.

Ventilation Recommended - Local ventilation in dusty conditions, or if thermal decomposition occurs.

Other Protection

Gloves and protective garments when handling molten material.

IX. Special Precautions

Hygienic Practices In Handling & Storage: Wash with soap and water.

Precautions For Repair & Maintenance Of Contaminated Equipment: Eliminate ignition sources.

Other Precautions

Store in a sprinkler protected warehouse. Since High Density is a polyethylene, it will burn with a hot flame if ignited. Avoid contact with ignition sources such as open flames. Keep a fire extinguisher near if welding is done in the area of High Density Polyethylene. If a heat source is present, keep the area well ventilated.

NFPA Code: Fire 1, Health 1, Reactivity 0

HMIS Code: Fire 1, Health 0, Reactivity 0

X. Regulatory Information

OSHA Status: Polyethylene is not considered hazardous under OHSA.

TSCA Inventory Status: All ingredients are listed.

CERCLA Reportable Quantity (RQ): None

SARA Title III:

Section 302/304.No extremely hazardous substances

Section 311/312.No reporting requirements although it is suggested that storage of >10,000 lbs of polyethylene in one facility should be listed on a Tier II report.

Section 313: No reporting requirements.

Hazard data contained herein was obtained from raw material suppliers. The information presented is believed to be factual, as it was derived from the works and opinions of persons believed to be qualified. However, no facts contained in the information are to be taken as a warranty, or representation, for which Quadrant EPP USA, Inc. bears legal responsibility. The user should review any recommendation in the specific context of the intended use to determine if they are appropriate.

N.A.= Not Applicable N.E.= Not Established