

# MATERIAL SAFETY DATA SHEET

Date last revised 04/07/2005 By M. Lykins

MSDS-17a

## I. General Information

Chemical Name & Synonyms High Density Polyethylene	Trade Name & Synonyms: High Density Polyethylene, Pipe Grade, Sanalite, ChampLine, Black Stress Relieved
Chemical Family Linear High Density Polyethylene	Formula (Ch <sub>2</sub> -ch <sub>2</sub> ) n
Proper DOT Shipping Name N/A	DOT Hazard Classification N/A
Manufacturer Poly Hi Solidur Inc.	Manufacturer's Phone Number (260) 479-4274
Manufacturer's Address 2710 American Way, Fort Wayne, IN 46809	Chemtrec Phone Number 1-800-424-9300

## II. Ingredients

Principal Components	Percent	Threshold Limit Value (Units)
Polyethylene (CAS 9002-88-4)	>90%	10 mg/m <sup>3</sup> (total dust)
Carbon Black (Pipe Grade & Black only)	<5 %	3.5 mg/m <sup>3</sup> (Respirable dust)

## III. Physical Data

Boiling Point (Deg. F.) N/A	Specific Gravity (H <sub>2</sub> O=1) .94-97
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 or black, 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 N/A	LEL N/A
	UEL 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

<b>OSHA Permissible Exposure Limit</b> 15 mg/m <sup>3</sup> Total dust, 5 mg/m <sup>3</sup> respirable dust	<b>ACGIH Threshold Limit Value</b> 10 mg/m <sup>3</sup> (total dust)
<b>Carcinogen - NTP Program</b> NO	<b>Carcinogen - IARC Program</b> NO
<b>Symptoms of Exposure</b> None Known	
<b>Medical Conditions Aggravated By Exposure</b> None known, however, seek medical attention if constant irritation occurs. If thermal decomposition occurs, upper respiratory, eye, nose, and throat irritation may result.	
<b>Primary Route(s) of Entry</b> Inhalation of particulates.	
<b>Emergency First Aid</b> 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

<b>STABILITY</b> <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable <b>INCOMPATIBILITY</b> Hazardous <input type="checkbox"/> May Occur Polymerization <input checked="" type="checkbox"/> Will Not Occur	<u>Conditions To Avoid</u> None Known <u>Materials To Avoid</u> Strong oxidizing agents. <u>Conditions To Avoid</u> None Known
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<b>Hazardous Decomposition Products</b> Carbon Monoxide, Carbon Dioxide, selected Alkanes and Aldehydes including Acrolein and Formaldehyde.
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## VII. Environmental Protection Procedures

<b>Spill Response...</b> Sweep up for Disposal or reuse.
<b>Waste Disposal Method...</b> Incineration or landfill - dispose of in accordance with Federal, State and Local regulations.

## VIII. Special Protection Information

<b>Eye Protection</b> Glasses with side shields in dusty conditions.	<b>Skin Protection</b> Normally not needed.
<b>Respiratory Protection (Specific Type)</b> - NIOSH approved dust respirator recommended. If material is being burned wear an organic respirator.	
<b>Ventilation Recommended</b> - Local ventilation in dusty conditions, or if thermal decomposition occurs.	
<b>Other Protection</b> Gloves and protective garments when handling molten material.	

## IX. Special Precautions

<b>Hygienic Practices In Handling &amp; Storage</b> Wash with soap and water.
<b>Precautions For Repair &amp; Maintenance Of Contaminated Equipment</b> Eliminate ignition sources.
<b>Other Precautions</b> 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.
<b>NFPA Code:</b> Fire 1, Health 1, Reactivity 0 <b>HMIS Code:</b> Fire 1, Health 0, Reactivity 0

## X. Regulatory Information

**OSHA Status:** Polyethylene is not considered hazardous under OSHA.

**TSCA Inventory Status:** All ingredients are listed.

**CERCLA Reportable Quantity (RG):** 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 Poly Hi Solidur, 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