

Material Safety Data Sheet

I. General Information		
Chemical Name & Synonyms Low Density Polyethylene		Trade Name & Synonyms Low Density Polyethylene
Chemical Family Low Density Polyethylene		Formula (ch2-ch2)n
Proper DOT Shipping Name N/A		DOT Hazard Classification N/A
Manufacturer Poly Hi Solidur Inc.		Manufacturer's Phone Number (219) 479-4274
Manufacturer's Address 2710 American Way, Fort Wayne, IN 46809		Chemtrec Phone Number 1-800-424-9300
II. Ingredients		
Principal Hazardous Components	Percent	Threshold Limit Value (Units)
Polyethylene (CAS 9002-88-4)	>99%	10 mg/m3 (total dust)
III. Physical Data		
Boiling Point (Deg. F.) N/A	Specific Gravity (H2O=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 Translucent solid with waxy odor		
IV. Fire & Explosion Hazard Data		
Flash Point (Test Method)		Auto Ignition Temperature
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 irritation compounds.		

Unusual Fire & Explosion Hazards Combustion by-products include, but are not limited to, carbon dioxide, carbon monoxide, and aldehydes.		
V. Health Hazard Data		
OSHA Permissible Exposure Limit 10 mg/m ³ Total Dust, 5 mg/m ³ Respirable Dust		ACGIH Threshold Limit Value 10 mg/m ³
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 materials come 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 <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable </div>	Conditions To Avoid None Known	
INCOMPATIBILITY <div style="display: flex; justify-content: space-between;"> <div> Hazardous Polymerization </div> <div> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur </div> </div>	Materials To Avoid Strong Oxidizing agents. Conditions To Avoid None Known	
Hazardous Decomposition Products Carbon Monoxide, Carbon Dioxide, selected Alkanes and Aldehydes including Acrolein and Formaldehyde.		
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 Normally not needed.
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 materials.

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 Low 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 Low Density Polyethylene. If a heat source is present, keep the area well ventilated.