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Energized E/Barriers Material Safety Data Sheet (MSDS)

MANUFACTURER'S CONTACT INFORMATION:

Poly Hi Solidur, Inc.	INFORMATION: (260) 479-4274
2710 American Way	EMERGENCY: (800) 424-9300
Fort Wayne, IN 46809	(Chemtrec 24 Hours)

I. Product Identification	
Product Name	Energized E/Barrier
Chemical Name & Synonyms	High Density Polyethylene
Chemical Family	Linear High Density Polyethylene
Trade Name & Synonyms	High Density Polyethylene, Pipe Grade, Sanalite, ChampLine, Black Stress Relieved
Chemical Formula	(CH ₂ -ch ₂) n
DOT Hazard Classification	Not Applicable
Proper DOT Shipping Name	Not Applicable

II. Hazardous Ingredients of Material			
MATERIAL	% (Wt.)	CAS No.	TLV (Units)
Polyethylene	> 90	9002-88-4	10 mg/m ₃ (Total dust)
Carbon Black (Pipe Grade & Black Only)	< 5	-	3.5 mg/m ₃ (Respirable dust)

III. Physical/Chemical Data	
Appearance & Odor	Waxy solid, white or black, with waxy odor.
Boiling Point	Not Applicable
Specific Gravity (H ₂ O = 1)	.94 - .97
Evaporation Rate (Air = 1)	Not Applicable
% Volatile By Volume	(?)
Vapor Density (Air = 1)	Not Applicable
Vapor Pressure (mm Hg)	Not Applicable
Solubility in Water	Negligible
pH	Not Applicable

IV. Fire and Explosion Data	
Flash Point (Method)	700° F (370° C) (ASTM D-1929 Method B)
Flammable Limits in Air (% By Volume)	
Lower	Not Applicable
Upper	Not Applicable
Auto Ignition Temperature	Setchkin 700° F (370° C)
Unusual Fire & Explosion Hazards	Combustion by-products include, but are not limited to, carbon dioxide and carbon monoxide
Fire Extinguishing Media	Water, Foam, Dry Chemical, CO ₂ , Dry Chemicals, 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.

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V. Reactivity Data

Stability	Stable
Incompatibility	Avoid strong oxidizing agents.
Hazardous Decomposition Products	Carbon Dioxide, Carbon Monoxide, selected Alkan(?)s and Aldehydes including Acrolein and Formaldehyde.
Conditions to Avoid	None Known.
Hazardous Polymerization	Will not occur.

VI. Health Hazard and Toxicological 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.
Carcinogenicity	NTP = No IARC = 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.

VII. First Aid Procedures

Skin Contact	If molten material comes in contact with skin, cool under running water. DO NOT attempt to remove the molten material from the skin. Get medical attention.
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VIII. Preventive Measures

A. PERSONAL PROTECTIVE EQUIPMENT	
Respiratory Protection/Ventilation	(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.
Eye/Skin Protection	Glasses with side shields in dusty conditions. Skin protection not normally needed.
Clothing/Gloves	Wear gloves and other protective clothing when handling molten material.
Hygienic Practices	Wash with soap and water.
B. STORAGE AND HANDLING	
Storage Conditions	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.
Handling Procedure	Precautions for Repair & Maintenance of Contaminated Equipment: Eliminate ignition sources.
C. ENVIRONMENTAL PROTECTION	
Spill and Leak Procedure	Sweep up for disposal or reuse.
Waste Disposal	Incineration or landfill. Dispose of in accordance with federal, state and local regulations.
NFPA Code	Fire = 1 Health = 1 Reactivity = 0
HMIS Code	Fire = 1 Health = 0 Reactivity = 0

IX. Regulatory Information/Classifications

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OSHA Status	Polyethylene is not considered hazardous under OSHA.
TSCA Inventory Status	All ingredients are listed.
CERCLA Reportable Quantity (RG)	None
RCRA	Not Applicable
SARA Title III	Section 302/304: No extremely hazardous substances.
SARA Title III	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.
SARA Title III	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 recommendations in the specific context of the intended use to determine if they are appropriate.