

I. General Information

Chemical Name & Synonyms High Density Polyethylene	Trade Name & Synonyms Borated High Density Polyethylene (Borotron)
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.	Manufacturer's Phone Number (260) 479-4274
Manufacturer's Address 2120 Fairmont Ave., Reading, PA 19605	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 ³ (total dust)
Boric Oxide (CAS 1303-86-2)	<25 %	3.5 mg/m ³ (respirable dust)

III. Physical Data

Boiling Point (Deg. F.) N/A	Specific Gravity (H ₂ O=1) 1.11-1.13
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, green color	

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) 700 Deg. F. (370 Deg. C.) ASTM-D-1929 Method B (Setchkin)	Auto Ignition Temperature 370°C (700 Deg. F.)
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

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 <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable INCOMPATIBILITY 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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Hazardous Decomposition Products
Primarily Carbon Monoxide, Carbon Dioxide. Trace Alkanes and Aldehydes in low oxygen environments.

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.

VII. 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 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 Boratron 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 and Boric Oxide are not considered hazardous under OSHA'.

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. However, 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.

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

Hazard data contained was obtained from raw material suppliers. The information presented is believed to be factual since 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 and recommendation in the specific context of the intended use to determine if they are appropriate.