Product Information Bulletin 306

Safety Data Sheet (SDS) Plasti-Fab **EPS Products** for Construction Applications



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BULLETIN NO.

ISSUED:

REPLACES:

Product Information Bulletin

Safety Data Sheet (SDS)

Plasti-Fab® EPS Products for Construction Applications

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December 6, 2018

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306

This SDS addresses Plasti-Fab[®] expanded polystyrene (EPS) products made from expandable polystyrene resin containing a combustion modifier – i.e., fire retardant – per section 3.

Section 1: IDENTIFICATION

TRADE NAME: PlastiSpan [®] insulation EnerSpan [®] insulation, FanFold Underly material. GeoVoid [®] compressible fill m	n, DuroFoam [®] insulation, DuroSp ayment, GeoSpec [®] lightweight fi aterial. Advantage ICF System [®]	oan [®] insulation, ENERGREEN [®] insulation, Il material, GeoSpan [®] compressible fill insulation and Radon Guard™				
OTHER MEANS OF IDENTIFICATION:	EPS Foam					
RECOMMENDED USE:	Foam insulation and/or geotec	hnical fill				
MANUFACTURER: (Corporate Office)	Plasti-Fab Ltd. #300, 2891 Sunridge Way N.E Calgary, Alberta T1Y 7K7					
EMERGENCY PHONE NUMBER:	403-248-9306 (8:00 AM to 5:00	PM MT)				
Section 2: HAZARDS IDENTIFICATION						
GHS CLASSIFICATION:	None					
SYMBOL:	None					
SIGNAL WORD:	Not hazardous					
HAZARD STATEMENTS:	None					
PRECAUTIONARY STATEMENTS:	P210: Keep away from heat, h ignition sources. No smoking. P261: Avoid breathing dust/fur P280, P284: Wear eye and res	ot surfaces, sparks, open flames and other nes (from cutting). spiratory protection (when sawing/sanding).				
OTHER HAZARDS:	Freshly expanded foam may o which may accumulate in restr above the Lower Explosive Lin sawing may under certain cond explosion hazard.	ff-gas residual blowing agent (pentane) icted or confined spaces in concentrations nit. Dust particles created by sanding or ditions create an atmosphere with a dust				
Section 3: COMPOSITION / IN	FORMATION ON INGREE	DIENTS				
CAS Number	Content (W/W)	Chemical Name				
9003-53-6	98-99%	Polystyrene				
109-66-0	<1.5%	n-Pentane				
78-78-4	<0.5%	Isopentane				
7782-42-5	0% or 1-5%	Graphite				
1195978-93-8	0-1%	Brominated polymeric flame retardant				
Note: n-Pentane and isopentane are r	esidual blowing agents and not i	ntended to be part of the product. Residual				

pentane rapidly decreases with age. Only EnerSpan insulation will contain graphite

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Section 4:	FIRST AID MEASUR	RES
Eyes:	If dust or particles becon condition is painful.	ne lodged in eyes, rinse with clean water. Obtain medical attention if
Skin:	Contact is not expected Consult physician if irrita	to present a skin hazard. Wash exposed areas with mild soap and water. tion persists.
Ingestion:	Product is not expected several days to make su physician.	to present significant ingestion hazard. If it does occur, watch the person for re obstruction does not occur. Do not induce vomiting unless directed to by
Inhalation:	If excessive pentane vap oxygen and obtain medie	oours are inhaled, remove victim to fresh air. If symptoms persist provide cal attention.
Section 5:	FIREFIGHTING MEA	ASURES
Suitable exti	nguishing media:	 Water Fog Foam Dry Chemical ABC type Extinguisher
Specific Pro Precautions	tective Equipment and for Fire-fighters:	Fire fighters should wear self-contained breathing apparatus (SCBA) and personal protective clothing (turn out gear) in a sustained fire.
Specific Haz Material:	ards Arising from the	Burning may produce dense black smoke. Smoke consists of carbon monoxide, carbon dioxide, hydrogen halide, nuisance particulate, and carbon (soot). Styrene, pentane and other undetermined hydrocarbon fractions could be released in trace quantities. Dust generated by fabrication (i.e., sanding, sawing, etc.) will increase fire hazard and should be handled accordingly.
Hazardous C	Combustion Products:	CO, HBr, CO ₂
Special Fire	Hazards:	Pentane vapours may be emitted from freshly produced foam. Vapours can be ignited by heat, sparks, flames or other sources of ignition.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Good housekeeping practices should be observed. Material can be swept or picked up and placed in a suitable container for disposal.

Environmental Precautions: Small pieces, particles and dust can be blown by the wind and enter storm water systems and waterways. Although the product is not hazardous excess product can result in impairment of storm water systems and waterways. Prevent loss of material to the local environment through good housekeeping practices.

Methods and Materials for Containment and Cleaning Up: Good housekeeping practices should be observed. Material can be swept or picked up and placed in a suitable container for disposal.

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

Avoid all sources of ignition, do not smoke in areas where product is being stored or used. Product will dissolve in hydrocarbons, esters, aldehydes and amines. Avoid contact with these materials.

Building insulation precautionary labeling:

CAUTION: THIS PRODUCT IS COMBUSTIBLE. A PROTECTIVE BARRIER OR THERMAL BARRIER IS REQUIRED AS SPECIFIED IN THE APPROPRIATE BUILDING CODE.

Conditions for safe storage:

Store product away from open flame and other ignition sources. Store material in a dry place out of direct sunlight when possible.



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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION **Control parameters:** ACGIH TLV **Chemical Name** TWA STEL n-Pentane 600 ppm 750 ppm Isopentane 600 ppm 750 ppm Polystyrene Not applicable Not applicable Appropriate Engineering Provide sufficient general and/or local exhaust ventilation to maintain exposure below Controls: permissible personal exposure limit (PEL) or threshold limit value (TLV) for combustion products from heated cutting tools. Use local exhaust, where possible, in confined or enclosed spaces. Wear approved safety glasses/goggles and dust mask if mechanical fabrication is to take place. **Individual Protection Measures Respiratory Protection:** Use approved dust mask when sawing or sanding. Use approved NIOSH respirator when the PEL or TLV for combustion products from heated cutting tools, sawing or sanding may be exceeded. **Skin Protection:** Skin protection not normally required. Wear gloves and/or sleeves, if sensitivity noted. Eye Protection: Use approved safety glasses/goggles when sawing or sanding. Section 9: PHYSICAL AND CHEMICAL PROPERTIES Appearance: Rigid cellular foam blocks, boards and shapes Odour: Very slight hydrocarbon odour **Odour threshold:** N/A pH: N/A **Melting point:** Softening begins between 70 to 80 °C (160 to 176 °F) **Boiling point:** N/A (decomposes) Flash point: > 345°C / 653 °F (ASTM D1929) Evaporation rate: N/A Flammability: Oxygen Index >24% (ASTM D2863) **Upper/Lower Flammability or** Upper Explosive Limit: 8.3 (% by Volume) (pentane) Explosive Limit: Lower Explosive Limit: 1.4 (% by Volume) (pentane) N/A Vapour pressure: Vapour density: (air = 1) N/A Relative density: (water = 1) 0.01 to 0.05 Solubility: Insoluble in water. Soluble in hydrocarbons, esters, aldehydes and amines. Partition coefficient, N/A n-Octanol/Water (log Kow) Auto-ignition temperature: 440 °C / 824 °F **Decomposition temperature:** > 300 °C / 572 °F N/A Viscosity: Other information: N/A Physical state: Solid



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Chemical Stability:	Normally stable	
Possibility of Hazardous Reactions	None expected	
Conditions to Avoid:	Open flames, sparks, heat and other ignition sources.	
Incompatible Material	Product will dissolve in hydrocarbons, esters, aldehydes and amines.	
Hazardous Decompos Products:	tion Combustion products include carbon monoxide, carbon dioxide, styrene, hydrogen halide, nuisance particulates, carbon (soot) and pentane. Other undetermined hydrocarbon fractions could be released in trace quantities.	
Section 11: TOXIC	OLOGICAL INFORMATION	
Route of Entry:	Skin Contact, Eye Contact, Inhalation, Ingestion	
Effects of Exposure:	Skin: Frequent and prolonged contact may cause mild skin irritation.	
	Lyes: wild irritation of eyes and mucous membranes. Inhalation: Exposure to high concentrations of vapour may include dizziness. nausea	and
	headaches.	-
loxicity, LD50, LC50:	No information available.	
Section 12: ECOL	OGICAL INFORMATION	
This section is not requ	ed by WHMIS.	
Section 13: DISPO	SAL CONSIDERATIONS	
General Product Infor Disposal Instructions	nation: Material, if discarded, is not expected to be a characteristic hazardous waste. Dispose of waste material according to Local, State, Federal, and Provincial Environme	
Regulations.		ntal
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