

Better building ideas from PFB

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

June 6, 2017

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

material, GeoVoid [®] compressible fill n	naterial, Advantage ICF System	fill material, GeoSpan [®] compressible fill [®] insulation and Radon Guard™
OTHER MEANS OF IDENTIFICATION:	EPS Foam	
RECOMMENDED USE:	Foam insulation and/or geote	chnical fill
MANUFACTURER: (Corporate Office)	Plasti-Fab Ltd. #300, 2891 Sunridge Way N. Calgary, Alberta T1Y 7K7	Ε.
EMERGENCY PHONE NUMBER:	403-248-9306 (8:00 AM to 5:	00 PM MT)
Section 2: HAZARDS IDENTI	FICATION	
GHS CLASSIFICATION:	None	
SYMBOL:	None	
SIGNAL WORD:	Not hazardous	
HAZARD STATEMENTS:	None	
PRECAUTIONARY STATEMENTS:	ignition sources. No smoking P261: Avoid breathing dust/fu	
OTHER HAZARDS:	Freshly expanded foam may off-gas residual blowing agent (pentane) which may accumulate in restricted or confined spaces in concentrations above the Lower Explosive Limit. Dust particles created by sanding or sawing may under certain conditions create an atmosphere with a dust explosion hazard.	
Section 3: COMPOSITION / IN	NFORMATION ON INGRE	EDIENTS
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

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

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Eyes:	If dust or particles become lodged in eyes, rinse with clean water. Obtain medical attention if condition is painful.		
Skin:	Contact is not expected to present a skin hazard. Wash exposed areas with mild soap and water. Consult physician if irritation persists.		
Ingestion:		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 vapours are inhaled, remove victim to fresh air. If symptoms persist provide oxygen and obtain medical attention.		
Section 5:	FIREFIGHTING ME	ASURES	
Suitable ext	inguishing media:	 Water Fog Foam Dry Chemical ABC type Extinguisher 	
	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 (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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Section 10: STAB	
Reactivity:	Not reactive
Chemical Stability:	Normally stable
Possibility of Hazardous Reactions:	None expected
Conditions to Avoid:	Open flames, sparks, heat and other ignition sources.
Incompatible Materials	s: Product will dissolve in hydrocarbons, esters, aldehydes and amines.
Hazardous Decompos Products:	Sition 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: TOXIO	COLOGICAL INFORMATION
Route of Entry:	Skin Contact, Eye Contact, Inhalation, Ingestion
Effects of Exposure:	Skin: Frequent and prolonged contact may cause mild skin irritation.
	Eyes: Mild irritation of eyes and mucous membranes. Inhalation: Exposure to high concentrations of vapour may include dizziness, nausea and
	headaches.
Toxicity, LD50, LC50:	No information available.
Section 12: ECOL	OGICAL INFORMATION
This section is not requi	ired by WHMIS.
Section 13: DISPC	OSAL CONSIDERATIONS
	mation: Material, if discarded, is not expected to be a characteristic hazardous waste.
Disposal Instructions: Regulations.	Dispose of waste material according to Local, State, Federal, and Provincial Environmental
Regulations.	
Regulations. Section 14: TRAN	Dispose of waste material according to Local, State, Federal, and Provincial Environmental
Regulations. Section 14: TRAN	Dispose of waste material according to Local, State, Federal, and Provincial Environmental SPORT INFORMATION
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