

PFSI

POLYURETHANE FOAM SYSTEMS INC

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MATERIAL SAFETY DATA SHEET

POLARFOAM RIGID POLYURETHANE FOAM : PF6302-0, 6304-0, 6305-0, 6312-0, 6313-0, 6318-0, 6323-0, 6327-0, 6329-0, 6331-0, 6350-0, 6352-0, 6354-0, 6358-0, 6364-0, 6365-0, 6366-0, 7244-0, 7300-0 & 7610C-0

Section 1 – Product & Company Information

Manufacturer of Chemical Components:	Product:
Demilec Inc. Current Issue Date: January 2, 2008 WHMIS Classification: Not regulated	Trade Name: Polarfoam Rigid Urethane Foam Chemical Name: Rigid Urethane Foam Plastic blown with HFC 245fa. Chemical Family: Urethane CAS #: N/A Finished Goods

Section 2 – Ingredients

Ingredients	# CAS	%	TWA-8hr
Urethane Plastics	N/A	95-100	Not Applicable
1,1,1,3,3-Pentafluoropropane	460-73-1	1-5	300 PPM

Section 3 – Physical Data

Physical State:	Rigid Cellular Plastic
Odour:	Neutral
Density:	1.5 to 5.0 pcf
Melting Point:	N/A, Thermoset
Decomposition Temp.:	>250°F
Max. Service Temp.:	180°F
Solubility in water:	None

Section 4 – Fire and Explosion Hazard Data

State:	Combustible
Flash Point:	Not established
Auto-Ignition Temperature:	650-800°F
Extinguishing Media:	Use water, dry chemical carbon dioxide or chemical foam.
Fire Fighting Equipment:	Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus with a positive pressure.
Hazardous Decomposition Products:	Under fire conditions, carbon monoxide, carbon dioxide, hydrogen halides and phosphorous oxide,

	possible traces of hydrogen cyanide and nitrogen oxides.
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Rigid polyurethane foam, like other organic materials such as paper, wood and cotton, can present unreasonable fire risks in certain misapplication when exposed to ignition sources in air. Once ignited, fires can burn rapidly and produce rapid flamespread, quick flashover, toxic or flammable gases, dense smoke and intense heat. In no event should the polyurethane foam remain exposed or unprotected.

Precautions:

- (a) Make no application of foam to interior wall and ceilings or other space enclosures without prompt and subsequent application of approved thermal barriers.
- (b) Do no welding or flame cutting until proper surface protection has been provided.
- (c) Avoid the confined storage of large urethane foam bins.

Section 5 – Reactivity Data

Stability:	Stable under normal conditions.
Incompatibility:	None known.
Hazardous Decomposition Products:	Under fire conditions, carbon monoxide and dioxide, hydrogen halides, phosphorous oxide and possible traces of hydrogen cyanide and nitrogen oxides.
Polymerization:	None.
Corrosive Properties:	None.
Oxidizer Properties:	None.
Chemical Resistance:	Stable in the presence of most solvents found in binders, bituminous materials, wood preservatives and sealers. Resistance to facers containing polasticizer, fuel, mineral oil, weak acids, and weak bases. Resistant to fungi and microbes. UV rays cause a darkening of the foam surface and with time an embrittlement of the surface.

Section 6 – Health Hazard Data

Routes of entry for solids:	Inhalation, skin contact, only if dust is created during cutting.
Routes of entry for gases:	N/A.
Eye and skin contact with dust:	May cause mechanical irritant to skin and eyes.
Dust inhalation:	May cause mechanical irritant to respiratory system.
Dust ingestion:	May cause choking, if swallowed.

Section 7 – First Aid Measures

Eye Contact:	Irrigate with water for 15 minutes.
Skin Contact:	Wash with soap and water thoroughly.
Inhalation:	Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, assist with oxygen. Consult a physician.
Ingestion:	No adverse effects anticipated by this route.

Section 8 – Handling Precautions

Eye Protection:	Safety glasses during cutting.
Skin Protection:	Protective clothing not necessary.
Respiration Protection:	Dust mask during cutting.
Ventilation:	Use sufficient ventilation to keep exposure to dust to minimum (below 5-mg/m ³ breathable nuisance dust).

Section 9 – Disposal Considerations

Waste Disposal:	In accordance with Federal, Provincial and Local regulations.
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Section 10 – Storage Information

General:	Keep away from open flame, electrical or mechanical sparks, electric heaters, high powered lights, flame sources and flammable liquids and gases.
Storage Requirements:	Protect all indoor bin and sheet storage areas with fusible sprinklers.

Section 11 – Transportation Information

Proper shipping name:	Rigid Urethane Foam Plastic
Primary Hazard Class:	N/A
Secondary Hazard Class:	N/A
Label required:	None
Placard required:	None
Poison constituent:	N/A
UN Code:	N/A
EPA Registration #:	N/A
TDG Classification:	Not regulated.

Section 12 – Preparation of the MSDS

Preparation of MSDS: Demilec Technical Dept.
Preparation Date: January 2, 2008