

PFB EPR RESIN

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MATERIAL SAFETY DATA SHEETS

TRADE NAME: PFB EPR RESIN

CHEMICAL NAME: EXPANDABLE POLYSTYRENE

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PHYSICAL DATA:

Melting Point	Softens (and thus expands) at approx. 80°C
Density	1.0 kg/L @ 20°C
Solubility in Water	Insoluble
Vapour Pressure	280 mbar (pentane)
Vapour Density (Air = 1)	2.48 (pentane)
Appearance & Odour	Solid round white beads; odour of pentane

HAZARDOUS INGREDIENTS:

Contained In Bead:	Pentane: 5.0 – 7.5%
TLV (Threshold Limit Value):	600 ppm for 8 hrs exposure, 5 days per week

Odour Perception Pentane – Mild, gasoline odour. Pentane odour can be smelled at approx. 400 ppm, so if odour is noticed, concentration is approaching or above TLV of Pentane

Toxicity No known applicable information

Effects of Overexposure On humans, effects are due to vapours evolved. These are: possible central nervous system depression, dizziness, loss of coordination.

Skin Irritation Symptoms of skin and mucous membrane contact: - Humans; removal of natural oils of skin

Eye Irritations Mild irritation of eyes and mucous membranes

Special Notes Slipping hazard on walking areas

REACTIVITY DATA:

Stability	Stable
Conditions to Avoid	Heat, spark, flame
Incompatibility	Dissolves in organic solvents, such as gasoline
Hazardous Polymerization.	Will not occur

FIRST AID

Eyes	Flush with flowing water for at least 15 minutes. If irritation persists, obtain medical assistance
Skin	Wash with soap & water
Ingestion	Consult a physician immediately
Inhalation	If pentane vapours are inhaled, remove victim to fresh air. Assist breathing and obtain medical assistance.

EMERGENCY PHONE NUMBERS

403-946-5031 (24 Hours)

403-946-4576 (Office Hours)

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SPILL & DISPOSAL PROCEDURES: Step to be taken with spills and leaks Ventilates area to avoid accumulation of vapours. Sweep up, using non-sparking equipment. Avoid static build up and discharge.

Waste Disposal Incinerate in an approval facility. Deposit in approved chemical dump

FIRE AND EXPLOSION HAZARDS: Pentane Vapours are Primary Concern. Be aware that pentane vapours are heavier than air
If confined during exposure to fire, high heat and heavy black smoke will result.
Auto-ignition Temp Approx. 285°C

Flammable Limits in Air, %
by Volume: L.E.L.: 1.4/U.E.L.: 7.8
(pentane) Flash Point: < -35°C

Extinguishing Media

- Water Fog
- Foam
- Dry Chemical
- ABC type Extinguisher

Special Fire Fighting Procedure: Wear self-contained breathing apparatus. Since pentane vapours are heavier than air they may travel long distances, ignite and flash back to source

SPECIAL PROTECTION INFORMATION: Ventilation: General natural or mechanical forced ventilation to avoid accumulation of explosive vapours.

Respiratory Protection Cartridge or self-contained respirator, if TLV is exceeded

Protection Gloves Rubber or Plastic

Eye Protection Goggles

Other Protective Equipment Non-static clothing and shoes with conductive soles

Handling and Storage Store in cool, dry location, away from all sources of ignition. Ventilate storage areas well. Handle carefully; electrostatic discharge can be generated during handling.

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LABELING: TDGA

Because of the presence of pentane, Bills of Lading must include the following in accordance with Transportation of Dangerous Goods Act:

- Polymeric Beads, expandable, impregnated with flammable vapour
- Class 9.1
- Product Identification No. UN2211
- Packing Group III
- Transport trucks to carry one (1) Class 9 – Misc. Product Red & White placard on each side (4 total)

WHMIS

Indicated as being Class 3 (Flammable) due to pentane vapours

Prepared by: John Reid, P.Eng./Darryl Brown, B.Sc. Title: Plant Manager/Lab Chemist
Update: February 13, 2001

While PFB Corporation, believes the data set forth herein is accurate as of the date hereof, PFB Corporation makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.

PFB Corporation
Head Office, 270, 3015 – 5th Avenue N.E.
Calgary, Alberta
T2A 6T8

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