

MATERIAL SAFETY DATA SHEET

EXPOL EXPANDED POLYSTYRENE PRODUCTS

Product description:

EXPANDED POLYSTYRENE

Uses:

Thermal insulation.

OZONE DEPLETING SUBSTANCES

All expanded polystyrene products manufactured by EXPOL LTD are free of any Ozone Depleting Substances in both manufacture and composition.

Appearance:

Light weight rigid cellular plastic in sheet, cut and moulded shapes, slab or block, white or coloured. May also be supplied as loose beads (i.e. bean bag beads) or granulated pieces.

Boiling Point:	Not applicable	Flash point:	Not applicable
Melting point:	Not applicable	Flammability:	Not applicable
Vapour Pressure:	Not applicable	Solubility:	Insoluble
Specific Gravity:	<1 (floats on water)	Form Supplied:	White solid
Percent Volatiles:	See "Ingredients" section	Max Service Temp:	80 deg. C

OTHER PROPERTIES**Solubility in Organic Solvents:**

Expanded Polystyrene is soluble in hydrocarbons (eg. Petrol and mineral turpentine) also esters and ketones (eg. Acrylic lacquer thinners); insoluble in alcohol (eg. Methylated spirits).

INGREDIENTS

Chemical name	Cas No.	Proportion, % wt.
Polystyrene	9003-53-6	>95

Notes

- (a) The major component is polystyrene.
- (b) When freshly made, or for a short period afterwards, product may contain trace amounts (<2% wt.) of highly volatile blowing agent pentane (CAS No. 109-66-0), which dissipates rapidly in air. The product may also contain up to 1% wt. a non-volatile halogenated hydrocarbon flame retardant additive dispersed throughout the polymer matrix.

HEALTH HAZARD INFORMATION

<p>HEALTH EFFECTS</p> <p>Acute-Swallowed: No significant effects expected.</p> <p>Acute-Eye: No significant effects. Dust from sanding or cutting may be a physical eye irritant. Hot wire cutting may generate fumes which are irritating to the eyes.</p> <p>Acute-Skin: No significant effects expected.</p> <p>Acute-Inhalation: Dust from sanding or cutting of mouldings may cause mild irritation to the upper respiratory tract.</p> <p>Chronic: None known.</p>	<p>FIRST AID</p> <p>Swallowed: Not Likely</p> <p>Eye: If dust in eyes, flush immediately with water for at least 15 minutes. Retract Eyelids often. If discomfort persists seek medical advise.</p> <p>Skin: Not required.</p> <p>Inhaled: If inhaled dust/vapour causes discomfort, remove to fresh air. If discomfort persists seek medical advice.</p> <p>First Aid Facilities: No special facilities required. Treat symptomatically.</p>
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PRECAUTIONS FOR US

<p>EXPOSURE STANDARDS Exposures to airborne EPS dust and pentane Are unlikely to exceed National Occupational Health & Safety Standards.</p> <p>ENGINEERING CONTROLS Special ventilation is not normally required When handling the product.</p> <p>PERSONAL PROTECTION Special protection is not normally required. If further processing involves sanding or sawing, safety glasses with side-shields and a dust mask are required.</p>	<p>FLAMMABILITY EXPOL Expanded Polystyrene Products are combustible in the presence of a strong heat source or flame. Normal practices of Fire safety and housekeeping should be observed.</p> <ul style="list-style-type: none">-Prohibit open flames or potential flame Sources in product storage areas.-Protect product from hot work, such as welding, by a suitable protective fire barrier.-Store product at job site in minimum quantity needed and protect from sources of flame or sparks, such as welders or grinders. <p>TESTING EXPOL Expanded Polystyrene products manufactured from F Grade EPS raw material have been tested to AS1530.3:1999</p>
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SAFE HANDLING INFORMATION

<p>STORAGE AND DISPOSAL Expanded Polystyrene Products are not classified as Dangerous Goods for transport storage or handling.</p> <p>Combustible solid. Store in open or well Ventilated areas (see “Engineering Controls”) Store away from sources of strong heat or flame. keep away from strong oxidising agents.</p> <p>Smoking should be prohibited during unloading Of the product and in storage areas as good Practise.</p> <p>SPILLS AND DISPOSAL</p> <p>Non hazardous waste. Polystyrene is stable When buried in soil but is slowly degrade by sunlight. If not feasible to recycle dispose in an approved landfill.</p>	<p>FIRE / EXPOLSION HAZARDS Combustible solid.</p> <p>Extinguishing Media: Water, foam, carbon dioxide and dry chemical.</p> <p>Special Firefighting Procedures: The product contains a combustible Thermoplastic which will melt and drip when ignited and give off combustion products which are toxic (see Hazardous Decomposition products section). Firefighters and others who may be exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.</p> <p>Hazardous Decomposition Products: Carbon monoxide and carbon dioxide are the major products of incomplete combustion. The toxic potency of combustion products is similar to wood (CSIRO Technical Report TR94/1).</p>
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EXPOL Products covered within this Material Safety Data Sheet

- Thermaslab
 Platinum Board
 Underfloor Insulation
 Expol Black
Styro Drain
 GeoFoam
 Tuff-Pods
 Bean Bag Fill

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