

**MATERIAL SAFETY DATA SHEET**  
**FOAMEX STYROBOARD AND EXPANDED POLYSTYRENE PRODUCTS**

**Not hazardous according to the criteria of Worksafe Australia**

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**Product Description:**

**FOAMEX STYROBOARD EPS, STYROBOARD XPS, POLYPODS, DIAMOND PODS, EXPOL Underfloor Insulation, STYREFLEX foil faced EPS and other Expanded Polystyrene Products come in the form of polystyrene beads, blocks, sheets, moulded pods, other specially moulded shapes, wire cut shapes, foil-covered products and fine and coarse granulated material. Some of these Products may contain a fire retardant additive depending on the application.**

<p><b>Synonyms</b></p> <p>Expanded Polystyrene (EPS)                  Expanded Polystyrene Foam                  Extruded Polystyrene Foam (XPS)                  Rigid Cellular Polystyrene                  Polystyrene Foam Insulation                  Polystyrene Insulation Board</p>	<p><b>ADG Code Classification</b></p> <p><b>UN Number:</b> None allocated  <b>Proper Shipping Name:</b> None allocated  <b>Dangerous Goods Class:</b> None allocated  <b>Subsidiary Risk:</b> None allocated  <b>Packaging Group:</b> None allocated  <b>Hazchem Code:</b> None allocated  <b>Poisons Schedule No. :</b> None allocated</p>
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**Uses:**

Thermal insulation, impact protection and void filler in building and construction and as a packaging material.

**OZONE DEPLETING SUBSTANCES**

Foamex Styroboard EPS, Styroboard XPS and Expanded Polystyrene Products are free of any Ozone Depleting Substances in both manufacture and composition.



## PHYSICAL DESCRIPTION/PROPERTIES

### 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.

<b>Boiling Point:</b>	Not applicable	<b>Form Supplied</b> (20deg C): White or coloured solid <b>Maximum Service Temperature:</b> 80 deg.C <b>Percent Volatiles:</b> See "Ingredients" section
<b>Melting Point:</b>	Not applicable	
<b>Vapour Pressure:</b>	Not applicable	
<b>Specific Gravity:</b> <1	(floats on water)	
<b>Flash Point:</b>	Not applicable	
<b>Flammability Limits:</b>	Not applicable	
<b>Solubility in Water:</b>	Insoluble	

## OTHER PROPERTIES

### Solubility in Organic Solvents:

Polystyrene is soluble in hydrocarbons (eg. petrol and mineral turpentine) and esters and ketones (eg. acrylic lacquer thinners); insoluble in alcohol (eg. methylated spirits).

## INGREDIENTS

Chemical Name		Proportion, % wt.
Polystyrene	9003-53-6	>92

### Notes

(a) The major component is polystyrene. Foil-covered expanded polystyrene products will contain lower proportions of polystyrene.

(b) These products may also contain up to 1% wt. of a flame retardant additive (Hexabromocyclododecane CAS No. 3194-55-6) dispersed throughout the polymer matrix.

(c) When freshly made, or for a short period afterwards, EPS products may contain trace amounts (<2% wt.) of the highly volatile blowing agent pentane (CAS No. 109-66-0), which dissipates rapidly in air.

(d) Extruded Styroboard XPS is foamed using typical refrigerant gases like Hydrofluorocarbons, Hydrofluoro-olefins and Hydrocarbons as blowing agents, which although gases remain substantially trapped within the foam, and may contain up to 7% of any or a mixture of;

1234ze Trans-1,3,3,3-tetrafluoropropene	<b>CAS No.</b> 29118-24-9
152(a) 1,1-difluoroethane	<b>CAS No.</b> 75-37-6
134(a) 1,1,1,2-tetrafluoroethane	<b>CAS No.</b> 811-97-2
Di Methyl Ether	<b>CAS No.</b> 115-10-6



**HEALTH HAZARD INFORMATION**

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

<p><b>EXPOSURE STANDARDS</b></p> <p>Exposures to airborne dust and pentane are unlikely to exceed National Occupational Health and Safety Commission (Worksafe Australia) exposure standards when using this product.</p> <p><b>ENGINEERING CONTROLS</b></p> <p>Special ventilation is not normally required when handling the product.</p> <p><b>PERSONAL PROTECTION</b></p> <p>Special protection is not normally required. If further processing involves sanding or sawing, safety glasses with side-shields and a dust mask.</p>	<p><b>FLAMMABILITY</b></p> <p>FOAMEX Expanded Polystyrene Products are combustible in the presence of a strong heat source or flame (see “Storage and Transport” section). Normal practices of fire safety and housekeeping should be observed, including:</p> <ul style="list-style-type: none"> <li>- Prohibit open flames or potential flame sources in product storage areas.</li> <li>- Protect product from hot work, such as welding, by a suitable protective fire barrier. During such work have a suitable fire extinguisher handy.</li> <li>- Store product at job site in minimum quantity needed and protect from sources of flame or sparks, such as welders or grinders.</li> <li>- Dispose of waste product promptly as good housekeeping practice.</li> </ul>
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**SAFE HANDLING INFORMATION**

<p><b>STORAGE AND TRANSPORT</b></p> <p>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 safety practice.</p> <p><b>SPILLS AND DISPOSAL</b></p> <p>Non hazardous waste. Polystyrene is stable when buried in soil but is slowly degraded by sunlight. If feasible recycle. Can be used as a soil conditioner. Dispose of waste in an approved landfill.</p>	<p><b>FIRE/EXPLOSION HAZARDS</b></p> <p>Combustible solid.</p> <p><b>Extinguishing Media:</b> Water, foam, carbon dioxide and dry chemical.</p> <p><b>Special Firefighting Procedures:</b> 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><b>Hazardous Decomposition Products:</b> 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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