MATERIAL SAFETY DATA SHEET
FOAMEX STYROBOARD AND EXPANDED POLYSTYRENE PRODUCTS

Not hazardous according to the criteria of Worksafe Australia

Victoria: FOAMEX VICTORIA PTY LTD ABN 97 006 535 520
31 - 33 Gatwick Rd, Bayswater North 3153 Phone (03) 9720 4200

New South Wales: FOAMEX POLYSTYRENE PTY LTD ABN 94 088 759 264
31 Mavis St, Revesby 2212 Phone (02) 9773 1655

South Australia: FOAMEX SOUTH AUSTRALIA PTY LTD ABN 56 091 792 095
8-10 Waldaree St, Gepps Cross 5094 Phone (08) 8353 8811

Queensland: POLYFOAM (BRISBANE) PTY. LTD. ABN 64 608 233 459
43 Proprietary Street, Tingalpa 4173 Phone (07) 3390 8955

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.

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>ADG Code Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expanded Polystyrene (EPS)</td>
<td>None allocated</td>
</tr>
<tr>
<td>Expanded Polystyrene Foam</td>
<td>None allocated</td>
</tr>
<tr>
<td>Extruded Polystyrene Foam</td>
<td>None allocated</td>
</tr>
<tr>
<td>Rigid Cellular Polystyrene</td>
<td>None allocated</td>
</tr>
<tr>
<td>Polystyrene Foam Insulation</td>
<td>None allocated</td>
</tr>
<tr>
<td>Polystyrene Insulation Board</td>
<td>None allocated</td>
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</tbody>
</table>

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

OZONE DEPLETING SUBSTANCES
Foamex Styroboard EPS 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.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>&lt;1 (floats on water)</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>See “Ingredients” section</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Form Supplied (20deg C)</td>
<td>White solid</td>
</tr>
<tr>
<td>Maximum Service Temperature</td>
<td>80 deg.C</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Proportion, % wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene</td>
<td>9003-53-6</td>
<td>&gt;95</td>
</tr>
</tbody>
</table>

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

(b) When freshly made, or for a short period afterwards, product may contain trace amounts (<2% wt.) of the 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

**HEALTH EFFECTS**

**Acute-Swallowed:**
No significant effects expected.

**Acute-Eye:**
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.

**Acute-Skin:**
No significant effects expected.

**Acute-Inhalation:**
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.

**Chronic:**
None known.

**FIRST AID**

**Swallowed:**
Not likely.

**Eye:**
If dust in eyes, flush immediately with water for at least 15 minutes. Retract eyelids often. If discomfort persists seek medical advice.

**Skin:**
Not required.

**Inhaled:**
If inhaled dust/vapour causes discomfort, remove to fresh air. If discomfort persists, seek medical advice.

**First Aid Facilities:**
No special facilities required.

**ADVICE TO DOCTOR**
Treat symptomatically
### PRECAUTIONS FOR USE

#### EXPOSURE STANDARDS

Exposures to airborne dust and pentane are unlikely to exceed National Occupational Health and Safety Commission (Worksafe Australia) exposure standards when using this product.

#### ENGINEERING CONTROLS

Special ventilation is not normally required when handling the product.

#### PERSONAL PROTECTION

Special protection is not normally required. If further processing involves sanding or sawing, safety glasses with side-shields and a dust mask.

#### FLAMMABILITY

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:

- 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. During such work have a suitable fire extinguisher handy.
- Store product at job site in minimum quantity needed and protect from sources of flame or sparks, such as welders or grinders.
- Dispose of waste product promptly as good housekeeping practice.

### SAFE HANDLING INFORMATION

#### STORAGE AND TRANSPORT

Expanded Polystyrene Products are not classified as Dangerous Goods for transport, storage or handling.

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.

Smoking should be prohibited during unloading of the product and in storage areas as good safety practice.

#### SPILLS AND DISPOSAL

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.

#### FIRE/EXPLOSION HAZARDS

Combustible solid.

**Extinguishing Media:** Water, foam, carbon dioxide and dry chemical.

**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.

**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).

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