

Material Safety Data Sheet

Symonite

Company Details:

Symonite Pty.Ltd.
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Product Identification:

Product Name: Symonite
Other Names: Not Applicable
Manufacturers Product Code: "
UN Number: "
Dangerous Goods Class: "
Subsidiary Risk: "
Packaging Group: "
Hazchem Code: "
Poisons Schedule: Not Scheduled

Use:

Composite Cladding material that can be used externally for facades on buildings and internally with many uses, including partition walls and interior dressing panels. Can also be used for signage. Can be cut to size by a Tungsten Carbide tipped blade.

Physical Description / Properties:

| | |
|----------------------|---|
| Appearance: | Composite consisting of a Resin Core bonded to two Metal Faces. |
| Boiling Point: | Not Applicable |
| Vapour Pressure: | " |
| Specific Gravity: | " |
| Flashpoint: | " |
| Flammability Limits: | " |
| Solubility in water: | " |

Ingredients:

| Chemical / Generic Name: | CAS Number: | Proportion: |
|---------------------------------|--------------------|--------------------|
| Aluminium Alloy | 7429-90-5 | 30-60% |
| Phenol-Formaldehyde Resin | 903-35-4 | 30-60% |
| Cellulose Fibre | Not Available | 30-60% |
| Free Phenol | 108-95-2 | ≤0.12% |
| Free Formaldehyde | 50-00-0 | ≤0.1% |

Health Hazard Information:

Acute:

| | |
|------------|---|
| Swallowed: | Particles released when machining Symonite may cause tissue irritation. |
| Eye: | Particles may cause eye irritation. |
| Skin: | Contact with resin core or particles may irritate skin. If the Panel is heated during machining, contact with the metals may cause burns. |
| . | |
| Inhaled: | Inhalation of particles may cause irritation of the respiratory tract. |
| . | |

Chronic: (Pre Thermosetting of raw material to create Symonite)

Prolonged or repeated skin contact with the resin or resin particles may result in irritant contact dermatitis and/or allergic contact dermatitis. Possible risk of respiratory sensitisation (asthma).

Note :

Formaldehyde is listed as a suspected human carcinogen, however the Formaldehyde-Phenol Resin impregnated Kraft paper changes its characteristics when under Heat and Pressure (Thermosetting). This process renders the Phenol-Formaldehyde Resin inert. No known health risks are attributed to the cutting or routing of Symonite in it's finished state.

Thermosetting compounds behave like concrete; they change from the fluid state to the solid state liberating heat (exothermic reaction). Once in the solid state, they are temperature stable and do not revert to the fluid state even under extremes of temperature.

First Aid:

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|-----------------------|---|
| Swallowed: | Drink a glass of water. |
| Eye: | Rinse eye with water. Call a Doctor if necessary. |
| Skin: | Rinse with water for at least fifteen minutes. Cool burns under running water for at least ten minutes. Call a Doctor if necessary. |
| Inhaled: | Move patient to clear air. Call a Doctor if necessary. |
| First Aid Facilities: | No data. |

Precautions for use:**Exposure Standards:**

| | |
|-----------------|--|
| Aluminium Dust: | 10mg/m ³ TWA (Work Safe Australia) |
| Formaldehyde: | 1 ppm TWA (Work Safe Australia) (Pre-Thermosetting) |

Engineering Controls:

Adequate general ventilation and the use of dust extraction equipment are recommended.

Personal Protection:

| | |
|-----------------|--|
| Respirator: | An approved respirator suitable for use against particulates (if cutting). The respirator, should comply with AS1716 and should be used in accordance with AS1715. |
| Glove Type: | The use of cotton gloves will reduce skin contact. |
| Eye Protection: | Use of Safety Glasses selected in accordance with AS1336 And complying with AS1337 is recommended to protect Against flying particles. |
| Clothing: | Use of long trousers and shirts with long sleeves are Recommended to reduce skin contact. Loose fitting clothing Is not recommended as it may become entangled in the Machinery. |

Flammability:

Symonite is not flammable.

Safe Handling Information:

Storage and Transport:

Storage areas should have adequate general ventilation, particularly in hot climates, to prevent high levels of Formaldehyde Gas. Aluminium will react with strong Alkalies, Halogenated solvents, Bromates, Iodides and/or Ammonium Nitrate.

Explosive Hydrogen may be generated in some cases. Aluminium may react vigorously with Copper, Lead or Iron Oxides in the presence of extreme heat or an ignition source.

Spills and Disposal:

Normally suitable for disposal with regular trade waste. Large quantities of Aluminium powder will react with water or incompatible chemicals to generate Hydrogen, with a resultant risk of explosion. Seek approval from the local authority prior to disposal in this case.

Fire / Explosion Hazard:

A class "D" Fire Extinguisher for Aluminium powder is recommended for a large facility dedicated to cutting Symonite panels. Possible thermal decomposition products include Carbon Monoxide, Ammonia, Oxides of Nitrogen. Additional decomposition products from painted Symonite include Hydrofluoric Acid and other fluorides.

Other Information:

- (a) The need for hearing protection is recommended during cutting.
- (b) Fibre reinforced Phenolics are used extensively in Military, Aerospace and Public Transport applications.