

THE KOOLWALL PANEL
MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME

KOOLWALL PANEL

Other Names

Conditioned fabricated shapes of Expanded Polystyrene Foam containing fire retardant modifier.

UN No:	N/A (Not Applicable)
Dangerous Goods Class:	N/A
Subsidiary Risk:	N/A
Packaging Group:	N/A
Hazchem Code:	N/A
Poisons Schedule:	N/A

USE

External cladding for buildings

PHYSICAL DESCRIPTIONS/PROPERTIES

Appearance:	Opaque, rigid, plastic foam sheet with a fibreglass mesh cementateous coating
Odour:	Very slight hydrocarbon
Solubility:	Insoluble in water and alcohol, Soluble in hydrocarbons (eg. Petrol and mineral turpentine) esters and keytones (Eg. acrylic lacquer thinners)
Specific Gravity (water=1)	0.01 – 0.03 (floats on water)
Percent Volatiles (by wt.)	3 max.
Flash Ignition Temperatures (oC)	296 (test method D1929-68)
Auto Ignition Temperatures (oC)	490 (test method D1929-68)
Softening Temperatures (oC)	Approximately 100

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PRECAUTIONS FOR USE

EXPOSURE LIMITS

Pentane Component:

NH & MRC	TLV 8-hour time-weighted average: 6.00ppm
	TLV Short Term Exposure Limit (15 min): 750ppm

The odour of pentane is detectable by most people at a concentration of approximately 400 ppm in air and gives a warning of possible exposure conditions.

VENTILATION

No special ventilation normally required.

Air change rates, which meet the requirements of workplaces (typically 6 air changes per hour minimum), are usually adequate to keep pentane concentrations below the odour threshold and therefore the exposure limits.

PERSONAL PROTECTION

No special protection normally required, but SAA approved, respiratory protection recommended.

Use SAA approved respiratory protection within the supplier's limitation if the odour of pentane is detected and the exposure limits are exceeded.

FLAMMABILITY

Conditioned Expanded Polystyrene Foam does not represent a flammability hazard. However, the product is combustible in the presence of a strong heat source or flame. Normal practices of fire safety and housekeeping should be observed.

- Prohibit open flames or potential flame sources in foam storage and installation areas.
- Protection foam hot work, such as welding, by a suitable protective fire barrier. During such work, have a fire extinguisher handy.
- Store foam board work in limited quantities in a location protected from sources of flame or sparks, such as welders or grinders.
- Dispose of waste foam promptly as good housekeeping practice

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INGREDIENTS

Chemical Identity:	CAS No.	Proportion % Wt (Typical)
Polystyrene:	9003-53-6	96
Pentane:	109-66-0	
Isopentane:	78-78-4	2
Halogenated Organic Compound:	-	1.5
Other Impurities (mainly water):	to	100%

HEALTH EFFECTS

Short Term (Acute) Health Effects:

Swallowed:	None
Eye:	Mild irritation (pentane)
Skin:	None
Inhaled:	Mild irritation (pentane)

Long Term (Chronic) Health Effects: None known

FIRST AID

Swallowed:	N/A
Eye:	Flush with plenty of water. Seek medical attention if discomfort persists.
Skin:	N/A
Inhaled:	Remove to fresh air. Seek medical attention if discomfort persists

ADVICE TO DOCTOR

N/A

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STORAGE AND TRANSPORT

Combustible solid. Store in open or well-ventilated areas (see "Ventilation"), away from sources of strong heat or flame.

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

Conditioned Expanded Polystyrene Foam is not classified as a Dangerous Good under the Australian Transport of Dangerous Goods Code.

SPILLS AND DISPOSAL

Non hazardous waste. If feasible, recycle.

Can be disposed of as soil conditioner or stable landfill waste.

FIRE/EXPLOSION HAZARD

The product is combustible in the presence of a strong heat source or flame.

Extinguishing media: Water, foam, CO2 or dry chemical.

Special Fire-fighting Procedures: When ignited the product melts, drips, and gives off toxic decomposition products and dense black smoke which obscures vision.

Fire fighters and others exposed to the product of combustion should wear self-contained breathing apparatus. Equipment should be decontaminated after use.

Hazardous Decomposition Products: Decomposition products above about 240oC include carbon monoxide, carbon dioxide, smoke, styrene monomer and other hydrocarbons and small amounts of hydrogen halides.

Laboratory combustion toxicity studies indicate that the acute toxicity of Expanded Polystyrene Foam combustion products is no greater than that of wood combustion products.

CONTACT POINT

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