

SAFETY DATA SHEET SYMONITE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name: Symonite Pty Ltd
 Address: 2 Wella Way
 Somersby, NSW 2250
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 Product Name: **SymoniteHD, Symonite FR Ultra, Symonite FR**
 Other Names: Symonite
 Use: Heavy Duty 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, rescue vehicles and well suited for industrial type applications. Can be cut to size by a Tungsten Carbide tipped blade.

2. HAZARDS IDENTIFICATION

Not classified as hazardous according to ASCC Criteria, Dust from the dry product is classified as a hazardous substance according to the criteria of Work safe Australia.

UN Number:	None Allocated,	Dangerous Goods Class:	None Allocated,
Hazchem Code:	None Allocated	Poisons Schedule Number:	None Allocated
Packing Group:	None Allocated,	Hazchem Code:	None Allocated

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical / Generic Name:	CAS Number:	Proportion:
Aluminium Alloy	7429-90-5	30-60%
Phenol-Formaldehyde Resin	9003-35-4	30-60%
Cellulose Fibre	Not Available	30-60%
Free Phenol	108-95-2	≤0.12%
Free Formaldehyde	50-00-0	≤0.1%

Notes: The above ingredients are bonded together under heat and pressure. The process cures the resin and bonds all the layers of papers to form a flat sheet.



4. FIRST AID MEASURES

Swallowed:	Drink a glass of water. If irritation persists do not induce vomiting and seek immediate medical attention
Eye:	Flush with flowing water for at least 15 minutes, and if symptoms persist, seek immediate medical attention.
Skin:	Wash with mild soap and running water. Remove clothing contaminated with laminate dust. Seek medical attention if symptoms persist. For cuts, clean wound and apply antiseptic ointment, dress wound.
Inhaled:	Move patient to clear air. If irritation persists seek immediate medical attention
Advice to Doctor:	Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability:

Does not auto ignite in its intact state. Fine airborne dust can ignite so avoid a build-up of dust and keep all storage and work areas well ventilated. Avoid sources of radiant heat and flame; and avoid sparks and sources of ignition in all electrical equipment, including dust extraction equipment. People must not smoke in storage or work areas.

Extinguishing:

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, and Oxides of Nitrogen. Additional decomposition products from painted Symonite include Hydrofluoric Acid and other fluorides. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water, CO₂, foam or dry chemical fire extinguishers

6. ACCIDENTAL RELEASE MEASURES

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.

7. STORAGE AND HANDLING

Storage areas should have adequate general ventilation, particularly in hot climates, to prevent high levels of Formaldehyde Gas. Aluminium will react with strong Alkalis, 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.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Standards

The Worksafe Australia Exposure Standards, published in May 1995 are:

Wood based dust:

5 mg/cubic metre time-weighted average (TWA) measured as inspirable particulates.

10 mg/cubic meter short term exposure limit (STEL)

It is also listed as a sensitizer

Aluminium dust:

10mg/m³ TWA (Work Safe Australia)

Formaldehyde:

1.0 ppm (1.2 mg/cubic metre) time-weighted average (TWA) 8 hours 2.0 ppm (2.5 mg/cubic metre) short term exposure limit 15minutes (STEL). It is also listed as a sensitiser. Category 2 carcinogen (probable human carcinogen).

Engineering Controls:

All work with these laminates should be carried out in such a way as to minimise the generation of, and exposure to dust. Under factory conditions, sawing, drilling, sanding etc. should be done with equipment fitted with exhaust devices capable of removing wood dust, at source. Hand power tools should be fitted with dust bags and used in well-ventilated areas. Work areas should be well ventilated. They should be cleaned at least daily, and dust removed by vacuum cleaning or wet sweeping method.

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: The 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: The products are manufactured in sheet form and ranging in thickness 02mm to 25mm. Composite consisting of layers of phenol formaldehyde resin impregnated papers bonded to two metal faces under heat and pressure

Boiling Point: Not Applicable

Vapour Pressure: Not Applicable

Specific Gravity: 1.67-1.68

Flashpoint: Not Applicable

Flammability Limits: Not Applicable

Solubility in water: Not Applicable

Early Fire Hazard Indices to AS 1530.3

Ignitability index:	0
Spread of flame index:	0
Heat evolved index:	0
Smoke developed index:	0-2

10. STABILITY AND REACTIVITY

Reactivity:	No further relevant information available
Chemical Stability	Stable under recommended conditions of storage
Conditions to Avoid	open flames and incompatible materials
Incompatible materials	Incompatible with oxidising agents (e.g. nitrates) and acids (e.g. hydrochloric acid)
Hazardous	May evolve toxic gases (carbonoxides, formaldehyde,
Decomposition Products	Hydrocarbons when heated to decomposition.
Hazardous Reactions	Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Information

Formaldehyde gas may be released under some conditions. However, in well-ventilated storage areas and workplaces, the concentration of formaldehyde is unlikely to exceed the World Health Organisation standard of 0.1 ppm for the general environment and it will be well below the Worksafe Australia occupational Exposure Standard of 1.0 ppm. Laminate dust will be given off from machining the product, and gas and vapour may be produced from heat processing. The known health effects from laminate dust and formaldehyde are as follows:

Laminate Dust

The laminate in their intact state do not release airborne dusts, gases or vapours. However when machining, dust and splinters may cause irritation of the nose and throat, eyes and skin. Some dust may also be sensitiser, and some people may develop allergic dermatitis or asthma. Inhalation of laminate dust may increase the risk of nasal and Para nasal sinus cancer.

Formaldehyde

Formaldehyde gas and dilute solution of formaldehyde in water are irritating to the nose and throat, eyes and skin. The gas and solutions are also sensitisers and cases of allergic dermatitis and asthma have been reported. Formaldehyde has been evaluated by the International Agency for Research on Cancer (IARC) as group 2A, probably carcinogenic to humans. The IARC again evaluated formaldehyde in June 2004 and concluded that:” There are adequate data available from humans for an increased risk of nasopharyngeal cancer” and that formaldehyde should now be classified as Group 1, carcinogenic to humans.

Worksafe Australia has listed Formaldehyde as Sensitiser and Category 2 carcinogen (probable human carcinogen) as "those substances for which there is sufficient evidence to provide a strong presumption that human exposure may result in the development of cancer. This evidence is generally based on appropriate long term animal studies, limited epidemiological evidence or other relevant information"

Exposures to laminate dust produced from machining the products, and gas and vapour from heat processing with inadequate ventilation may result in the following health effects:

Health Effects

Acute

Swallowed:

Unlikely to occur, however swallowing the dust may result in abdominal discomfort. Particles released when machining SymoniteHD may cause tissue irritation.

Eye:

The dust, gas and vapour may be irritating to the eyes causing discomfort and redness. Particles may cause eye irritation.

Skin:

Contact with resin core or particles may irritate the skin. If the panel is heated during machining, contact with the metals may cause burns. Allergic dermatitis may occur and during handling sharp edges on the panel may cut the skin.

Inhaled:

Inhalation of particles may cause irritation of the respiratory tract.

Chronic

Repeated exposure over many years to uncontrolled laminate dust may increase the risk of nasal cavity cancer. Inhalation of laminate dust may also increase the risk of lung fibrosis (scarring). There are also increased risks of respiratory and skin sensitisation from laminate dust and formaldehyde resulting in asthma and dermatitis respectively. But if the work practices noted in this MSDS are followed and exposure to airborne dust are kept to a minimum, no chronic health effects are anticipated

12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATION

Waste Disposal Reuse where possible. Not regulated as a hazardous waste by Australian environmental authorities. Off-cut sand general waste material should be placed in containers and disposed of at approved land fill sites or burnt in an approved furnace or incinerator in accordance with disposal authority guidelines. Do not burn in barbecues, combustion stoves or open fires in the home as irritating gases may be evolved

Legislation Dispose of in accordance with relevant local legislation

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

No special transport requirements are considered necessary.

Shipping Name	None Allocated,	UN No.	None Allocated	DG Class	None Allocated
Subsidiary Risk(s)	None Allocated	Packing Group	None Allocated		
Hazchem Code	None Allocated	EPG	None Allocated		

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

The need for hearing protection is recommended during cutting. Fibre reinforced Phenolics are used extensively in military, aerospace and public transport applications.

17. CONTACT POINT

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