

Material Safety Data Sheet Alucobond

Section I	Product Identification
Manufacturer:	3A Composites Alucobond (Far East) PTE Ltd 300 Beach Road # 20-02 The Concourse; Singapore; 199555
Emergency Phone Number:	1-800-424-9300 Chemtrec To be used only in the event of chemical emergencies involving a spill, leak, fire, and exposure accidents involving chemicals.
Trade Name:	Alucobond
Synonym:	Polyethylene / Aluminum Laminated Construction

Section II	Material Identification and Information	
Ingredients (Common Name)	Percent (%) (By wt.) ¹	Occupational Exp. Limits (OSHA) (mg/m3)
Polyethylene (CAS #9002-88-4)	39-72	10.0 Total ⁽²⁾ 5.0 Resp. ⁽²⁾
Aluminum ⁽³⁾	28-61	15.0 Total ⁽²⁾ 5.0 Resp. ⁽²⁾

Section III	Physical Properties	
Appearance and odor	Composite sheet material, odorless	
Melting Point:	Polyethylene	110-130° C / 230-266° F
	Aluminum	593° C / 890° F
Sp. Gravity:	Polyethylene	0.92-0.93 g/ccm range
	Aluminum	2.70-2.73 g/ccm range
Solubility:	Insoluble in water	

¹ Concentration of ingredients depends upon the thickness of the material.

² These products are not considered to be a health hazard in the form in which they are sold(sheet, panel). However, if these products are abraded, melted, welded, cut or processed in any manner that causes release of fumes or dusts, hazardous levels of fumes or dust may be generated from these materials or constituents of these materials. Dust from these materials is regulated as particulate, N.O.S.

³ This product is not considered to be a health hazard in the form in which it is sold(sheet, panel). However, if this product is abraded, melted, welded, cut or processed in any manner that causes release of fumes or dusts, hazardous levels of fumes or dust may be generated from these materials or constituents of these materials. Aluminum fumes or dust are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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Section IV	Fire and Explosion Data
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Auto Ignition:	Composite – (ASTM D-1929) 768 °F, 409 °C
Extinguishing media:	Water, foam, CO ₂ , dry chemical powder
Special fire fighting procedure:	Toxic gases may form upon combustion. Respiratory protection is recommended.
Thermal decomposition:	May produce carbon monoxide, carbon dioxide, organic vapors

Section V	Reactivity Data
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Stability:	Stable
Incompatibility:	None known
Decomposition products:	Reference: "Thermal decomposition", Section IV
Conditions to avoid:	None known

Section VI	Health Hazard Data
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Effects of overexposure:

Acute:	Physical irritation of the eyes may result from overexposure to high concentrations of dust or chips from certain fabricating operations. Overexposure to high concentrations of respirable dust may result in pulmonary fibrosis.
Chronic:	Repeated long term inhalation of high concentrations of respirable dust may cause inflammation of the upper and lower respiratory tract.
Special Precautions:	Avoid prolonged inhalation of high dust concentrations and ingestion of material Wash hands before eating, drinking or smoking Wear proper eye and respiratory protection when working in areas of high dust concentrations.
Emergency and first aid procedures:	For dust contact with eyes, wash immediately under water for at least 15 minutes For dust inhalation exposure, remove to fresh air. Contact a physician.

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Section VII	Storage, Handling, and Disposal Data
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Waste disposal:	Care must be taken when using or disposing of material debris to prevent environmental contamination. Dispose of the debris in accordance with the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act and all state or local laws / regulations regarding disposal.
Storage and handling precautions:	Store in a flat dry area Handle carefully to avoid scratching product finish. Caution should be taken to avoid sharp edges.

Section VIII	Personal Protection Data
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Primary routes of entry are:	Inhalation and ingestion of dust concentrations.
Respiratory protection:	An approved NIOSH/MSHA respirator must be used when engineering controls cannot be implemented to control dust concentrations. Reference OSHA 1910.134 for specific requirements.
Ventilation:	Local exhaust. Reference OSHA 1910.94 for specific requirements.
Eye:	Eye protection must be worn when working in dust concentrations and during sawing or other operations which might cause flying debris. Reference OSHA 1910.133 for specific requirements.
Protective glove:	Gloves should be used to prevent cuts or scrapes.