

3A Composites

Safety Data Sheet

Alucobond: Initial Release Date: February 14, 2003

Revision Date: February 18, 2013

Section I	Product Identification
Manufacturer:	3A Composites USA, Inc. 208 W. 5 th Street, P.O. Box 507 Benton, KY 42025 (270) 527-4200
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 or Dibond
Synonym:	Polyethylene / Aluminum Laminated Construction

Section II	Hazard Identification
<p>Alucobond or Dibond is defined as an article under the OSHA Hazard Communications standard. The standard applies to “chemicals” but it does not apply to any substance, which is an “article”. The term “article” is defined in the OSHA warning rule, as a manufactured item: 1) which is formed to a specific design during manufacture, 2) which has end use function(s) dependent in whole or in part upon its’ shape or design use during end use, and 3) which does not release, or otherwise result in exposure to hazardous chemical under normal conditions of use.</p>	

There are no known hazardous materials contained in this product.

Section III	Chemical Composition	
Ingredients:	CAS Number	Percent % (by weight) ¹
Polyethylene	9002-88-4	39-72
Aluminum ³	7429-90-5	28-61

1) Concentration of ingredients depends upon thickness of material

Section IV	First Aid Measures
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.

3A Composites

Safety Data Sheet

Alucobond: Initial Release Date: February 14, 2003

Revision Date: February 18, 2013

Section V	Fire Fighting Measures
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Extinguishing media: Water, foam, CO₂, dry chemical powder

Special firefighting procedure: Toxic gases may form upon combustion. Respiratory protection is recommended.

Section VI	Accidental Release
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A release should not occur. However, if these products are abraded, melted or cut, dusts may be generated. Should a release of dusts occur, contain by blocking routes to surface water and grassy areas. Clean up by sweeping and depositing into a closed container.

PPE Requirements: Safety glasses, dust respirator and gloves.



Section VII	Handling and Storage
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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	Exposure Controls
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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 dusts 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.

Ingredient	OSHA Exposure Limit		ACGIH TLV
	Total	Respirable	
Polyethylene	10mg/m ³	5mg/m ³	N.E.
Aluminum	15mg/m ³	5mg/m ³	N.E.

Effects of overexposure:

3A Composites

Safety Data Sheet

Alucobond: Initial Release Date: February 14, 2003

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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.



Section IX	Physical and Chemical Properties
Appearance:	Solid sheet. Sandwich construction
Odor:	Not Applicable
Odor Threshold:	Not Applicable
PH:	Not Applicable
Melting Point:	Aluminum > 890 °F Core > 210 °F
Initial Boiling Point:	No Data
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability:	Not Flammable
Upper/lower explosive limit:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Specific Gravity:	Aluminum 2.70 – 2.73 g/ccm range. Core 1.5 – 1.7 g/ccm range.
Solubility:	Not Soluble
Partition coefficient:	Not Applicable
Auto-Ignition:	Composite – (ASTM D-1929) 768 °F, 409 °C
Decomposition Temperature:	No Data

3A Composites

Safety Data Sheet

Alucobond: Initial Release Date: February 14, 2003

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Viscosity: Not Applicable

Section X	Stability and Reactivity
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Stability: Stable

Incompatibility: None known

Decomposition products: May produce water, carbon monoxide, carbon dioxide, and smoke upon combustion.

Conditions to avoid: None known

Section XI	Toxicology Information
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No information available at this time.

Section XII	Ecological Information
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No information available at this time.

Section XIII	Disposal Information
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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.

Section XIV	Transportation
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UN Number: Not Applicable

UN Proper Shipping Name: Not Applicable

Transportation Hazard: Not Applicable

Packing Group: Not Applicable

Environmental Hazard: Not Applicable

Transport in bulk: Not Applicable

Special Precautions: Not Applicable

3A Composites

Safety Data Sheet

Alucobond: Initial Release Date: February 14, 2003

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Section XV	Regulatory Information
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REACH: Pursuant to Title II article 7 of the regulation this product is exempt from registration and notification and is therefore compliant with the REACH regulation.

RoHS: All current colors of Dibond are compliant with the RoHS standard with the exception of Hunter Red over Caution Yellow and Ultra Marine over Dark Green.

Section XVI	Other Information
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Abbreviations: OSHA – Occupational Health and Safety Administration

ACGIH – American Conference of Governmental Industrial Hygienist

N.E. – Not Established

Mg – milligram

M – Meter

CAS – Chemical Abstract System

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End of Safety Data Sheet