

3A Composites



Safety Data Sheet

E-Panel®, ®, epL-5™

Initial Release Date: April 22, 2010

Revision Date: January 7, 2015

Section I	Product Identification
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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:	E-Panel®, epL-5™
Synonym:	Polyethylene / Aluminum Laminated Construction

Section II	Hazard Identification
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E-Panel® 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.

Section III	Chemical Composition
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Ingredients (Common Name)	CAS Number	Percent (%) by Weight
Polyethylene	9002-88-4	40-70
Aluminum	7429-90-5	30-60

Section IV	First Aid Measures
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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 dusts may be generated from these materials or constituents of these materials.

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 V	Fire Fighting Measures
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Extinguishing media:	Water, foam, CO ₂ , dry chemical powder
Special firefighting procedure:	Toxic gases may form upon combustion. Respiratory protection is recommended.
Thermal decomposition:	May produce carbon monoxide, carbon dioxide, metal oxides, nitrogen oxides and organic vapors

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.
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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.

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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.



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

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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.
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Conditions to avoid:	None known
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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.
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Section XIV	Transportation
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UN Number: NA
UN Proper Shipping Name: NA
Transportation Hazard: NA
Packing Group: NA
Environmental Hazard: NA
Transport in bulk: NA
Special Precautions: NA

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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: E-Panel® is compliant with the RoHS standard. All current colors of E-Panel® are also 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:

NA = Not Applicable CAS = Chemical Abstract Service

OSHA = Occupational Safety and Health Administration. PEL = Permissible Exposure Limit

STEL = Short Term Exposure Limit. ACGIH = American Conference of Governmental Industrial Hygienist. TLV = Threshold Limit Value.

IMPORTANT: The information and data contained herein are believed to be accurate and have been compiled from sources believed to be accurate. All information contained herein is offered for your consideration, information, investigation, and verification. 3A COMPOSITES MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. 3A Composites will not be responsible for claims relating to any parties' use of or reliance on information and data contained herein regardless of whether it is claimed that the information are inaccurate, incomplete, or otherwise misleading

End of Safety Data Sheet