

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	Crane Composite frp Panel Products unless otherwise noted
Revision date	02-18-2015
Version #	07
Chemical description	Fiberglass Reinforced Plastic (frp)
Product code	ANXT, EARM, EAIS, LIC, ETR, LTR, STI, TI, CNSI, FSI, FX, FXE, PCI, PIF, PSIF, CGI, FSQF, FTSTF, FRFRJ, IPSA, IPSC, IPSCAN, SMXGC, STA, MXGC, SSTA, LBALN, STC, LBCLN, C25S, C25T, CAU, ***GP, ***DL, ***ST, ***SS, ***CTN, ***CTA, HGR, DSC, PWI, RBP, RVPRJ, RVSR, SDSC, RISC, AFL, TRW, ARMX, ARMR, TRF, RBP2, RGD, RGD2, RDMC, RTMC, RBMC, RBMCL, LHS, TIB, AFS, ARMT, RCHW, EGAT, EATR, REF, STI, LPC, MED, , REI, SDUR, AXSG, FRCW, STCW, STCWW, RBMC2, RBMC2L, RDMC2, AXS, CAU
Product use	High Impact Liner for Refrigerated Trailers, Truck Bodies, Containers and Railcars. Liners and Roofs for Refrigerated and Dry Trailers, Truck bodies, Containers and Railcars. Interior Wall and Ceiling panels where sanitary, durable, easy to clean finishes are required. Exterior Corrugated Daylighting and Opaque Panels for residential, commercial and industrial use. Gel-Coated and Non Gel Coated Exterior panels for use as sidewalls and roof panels on recreational vehicles. Gel-Coated Exterior panels for use as tank cladding on insulated tank containers. Miscellaneous other panels of similar design (estimated count 100)
Synonym(s)	Armortuf * Kemlite * Glasbord * Sequentia * Innovative Finishes * Sequentia Corrugated * Engineered Solutions * Filon
Manufacturer/Supplier	Crane Composites Inc 23525 W. Eames Street Channahon, IL 60410-3220 US
Telephone number	815-467-8600

2. Hazards Identification

Physical state	Solid.
Appearance	Rigid sheet.
Emergency overview	Low hazard under normal conditions. Fabricating, cutting, drilling, etc. of frp may produce dust, which may irritate the eyes, skin and respiratory system.
OSHA regulatory status	This product is an article pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard.
Potential health effects	
Eyes	Mechanical processing may generate dust. Dust may irritate the eyes.
Skin	Dust may irritate skin.
Inhalation	Dust may irritate the respiratory system.
Ingestion	Ingestion is not likely to be a primary route of occupational exposure.
Target organs	Eyes. Skin. Respiratory system.
Signs and symptoms	Irritation of nose and throat. Irritation of eyes and mucous membranes. Upper respiratory tract irritation.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

Composition comments	Panels are solid sheets composed of a mixture of polyester resin, inorganic fillers, pigments, processing additives, and fiberglass reinforcement. During the manufacturing process, this mixture is cured or hardened into a stable, solid material that is non-hazardous when handled or processed in accordance with good manufacturing and industrial hygiene practices.
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4. First Aid Measures

First aid procedures	
Eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops or persists.
Skin contact	Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops or persists.
Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention if symptoms persist.

Ingestion	First aid is normally not required. Ingestion of large amounts may cause gastrointestinal symptoms.
Notes to physician	Treat symptomatically.
5. Fire Fighting Measures	
Flammable properties	This product is not flammable. This product is a dust explosion class St-1 at normal moisture level.
Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Fire fighting equipment/instructions	Selection of respiratory protection for firefighting; follow the general fire precautions indicated in the workplace.
Hazardous combustion products	During fire, gases hazardous to health may be formed.

6. Accidental Release Measures

Personal precautions	Avoid inhalation of dusts from machining operation. Use personal protection as recommended in Section 8 of the MSDS.
Environmental precautions	No specific precautions.
Methods for cleaning up	No specific clean-up procedure noted.
Other information	Collect and dispose of spillage as indicated in Section 13 of the MSDS.

7. Handling and Storage

Handling	Do not eat, drink or smoke when using the product. Avoid inhalation of dust. Observe good industrial hygiene practices.
Storage	Store away from incompatible materials. Keep away from heat, sparks and open flame.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Dust (-)	TWA	3 mg/m3 10 mg/m3	Respirable particles. Inhalable particles.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Dust (-)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Dust (-)	TWA	5 mg/m3 15 mg/m3 50 mppcf 15 mppcf	Respirable fraction. Total dust. Total dust. Respirable fraction.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Dust (-)	TWA	3 mg/m3 10 mg/m3	Respirable particles. Total particulate.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Dust (-)	TWA	3 mg/m3 10 mg/m3	Respirable fraction. Total dust.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Dust (-)	TWA	3 mg/m3 10 mg/m3	Respirable particles. Inhalable

Components	Type	Value	Form
Dust (-)	TWA	10 mg/m ³	Total dust.
Engineering controls	Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high.		
Personal protective equipment			
Eye / face protection	Use tight fitting goggles if dust is generated by machining operation.		
Skin protection	Wear protective gloves, long pants and long sleeves when machining, cutting, drilling, etc.		
Respiratory protection	Under normal conditions, respirator is not normally required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.		
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical & Chemical Properties

Appearance	Rigid sheet.
Color	Not available.
Odor	Odorless.
Odor threshold	Not available.
Physical state	Solid.
Form	Solid.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1.2 - 1.8
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions.
Conditions to avoid	None under normal conditions.
Incompatible materials	Alkalies. Strong acids. Oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	None known.
Local effects	Dusts may irritate the respiratory tract, skin and eyes.
Sensitization	Not a skin sensitizer.
Carcinogenicity	Not classified.

Epidemiology	Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.
Mutagenicity	Not classified.
Reproductive effects	Not classified.
Symptoms and target organs	Irritation of nose and throat. Irritation of eyes and mucous membranes. Upper respiratory tract irritation.

12. Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	No data available.
Bioaccumulation / Accumulation	No data available.
Partition coefficient (n-octanol/water)	Not available.
Mobility in environmental media	The product is insoluble in water.

13. Disposal Considerations

Disposal instructions	Dispose of in accordance with all applicable regulations.
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14. Transport Information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
TDG	Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is an article pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard.
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TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)
Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No
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Section 311/312 (40 CFR 370)	No
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Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled
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WHMIS status	Non-controlled
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Inventory status

Country(s) or region	Inventor y name	On inventory (yes/no)*
Australia	Australian Inventory of C hemical S ubstances (AICS)	No

Country(s) or region	Inventor y name	On inventory (yes/no)*
Canada	Domestic S ubstances List (DSL)	No
Canada	Non-Domestic S ubstances List (NDSL)	No
China	Inventory of Existing Chemical S ubstances in China (IECSC)	No
Europe	E uropean Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	E uropean List of Notified Chemical S ubstances (ELINCS)	No
Japan	Inventory of Existing and New C hemical S ubstances (ENC S)	No
Korea	E xisting Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing cou ntry(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS® ratings	Health: 0 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.
Issue date	04-09-2014