

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	Polycarbonate Daylighting Panel
Revision date	12-02-2011
Version #	01
Chemical description	Polycarbonate
Product use	Patio Cover.
Synonym(s)	Poly300
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	Solid sheets.
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	Main polymer: Poly (Bisphenol-A-carbonates) Pigments and additives used to enhance specific properties are encapsulated in the polymer resin matter. No cadmium pigments or stabilizers are used.
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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
Hazardous combustion products

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

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

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Dust (-)	TWA	10 mg/m3	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	Solid sheets.
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	> 842 °F (> 450 °C)
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
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.
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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.

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.

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

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

WHMIS status Non-controlled

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No

Country(s) or region	Inventory name	On inventory (yes/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 country(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: 1
 Physical hazard: 0

NFPA ratings

Health: 0
 Flammability: 1
 Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Issue date

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