

Product Information

Trade Name and Synonyms

Fiber reinforced plastics, pultrusion, Ultrex® Durion® coated product and uncoated product

Chemical Name and Synonyms

Continuous fiber reinforced thermoset plastic composites (pultrusions) coated with acrylic

Chemical Family

Glass reinforced thermoset plastics

DOT Hazard Classification

Not applicable

Company Identification

Tecton Products, LLC

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Composition/Information on Ingredients

Pultrusions are solid forms composed of polyester resin and fibrous glass, oxides of calcium fused in an amorphous vitreous state. These raw materials are combined with both heat and pressure to produce a stable, solid material that is non-hazardous when handled or processed in accordance with good manufacturing and industrial hygiene practices. Acrylic is applied to the basic pultrusion through a proprietary and patented process.

Hazards Identification

Exposure Control

Fabricating, cutting, drilling, etc. of thermoset plastics may produce dust, which should be controlled. Particulate level should not exceed the following OSHA (Occupational Safety and Health Administration) standard: TWA 15mg/m³ (total dust) and TWA 5 mg/m³ (respirable particulate). [TWA = time weighted average as defined by OSHA]

Effects of Overexposure

Exposure to dust in excess of PEL (permissible exposure limit over an 8-hour period) may result in skin or upper respiratory tract irritation. Pre-existing skin or respiratory disorders may cause more susceptibility to these effects.

Carcinogenicity Status

Not listed by International Agency for Research of Cancer (INARC), National Toxicology Program (NTP), or OSHA.

Physical Data

Boiling Point

Not applicable

Vapor Pressure

Not applicable

Vapor Density

Not applicable

Specific Gravity (Water = 1)

1.59 (+/- .25)

% Volatile (by Volume)

Not applicable

Solubility in Water

Insoluble

Appearance and Odor

White or colored solid fiberglass reinforced component, no significant odor

Flammable Limit LEL

Combustible. Avoid dust formation; can form explosive dust/air mixture.

Custom Pultrusion

First Aid measures

Inhalation of Dust

Remove from source of exposure into fresh air. Ensure clear airway. Seek medical attention.

Prolonged Skin Contact

Remove contaminated clothing, wash skin with warm water and soap, skin cream may be helpful. If the fiberglass becomes embedded seek medical attention.

Eye Contact

Flush with running water for 15 minutes or more.

Ingestion of Dust

Do not induce vomiting; seek medical attention.

Fire and Explosion Data

Flash Point

Not applicable

Ignition Temperature

806° Fahrenheit without an ignition source; 788° Fahrenheit with an ignition source.

Extinguishing Media

Water, CO₂, dry chemical such as NFPA Class A fire extinguisher

Fire Fighting Procedures

Self-contained breathing apparatus for large scale or sustained fires should be used.

Unusual Fire and Explosion Hazards

In a large scale or sustained fire, product may decompose releasing carbon monoxide, carbon dioxides and various hydrocarbons. Avoid ignition sources when cutting the material and/or around dust accumulations.

NFPA Hazard Rating (0 = No Hazard)

Health 0, Flammability 0, Reactivity 0. [National Fire Protection Association]

Reactivity Data

Stability and Incompatibility

Stable. Hazardous polymerization will not occur.

Avoid contact with hot or concentrated nitric and perchloric acid, fuming sulfuric acid or 98% sulfuric acid at over 140 degrees F.

Hazardous Decomposition Products

See information in Fire and Explosion Data section above.

Environmental Information

Handling and Storing Precautions

Store away from open flame.

Miscellaneous

Do not eat or drink in fabrication areas.

Housekeeping

Avoid dust accumulations at or in excess of 1/32 inch; practice proper housekeeping procedures by utilizing an explosion proof vacuum or natural bristle brush with a non-sparking/non-conductive dust pan. Do not use compressed air for cleaning.

Spill or Leak Procedures

Not applicable. (When moving product, gloves, steel-toed boots and protective eyewear are recommended.)

Waste Disposal

Dispose of as solid waste in compliance with all applicable local, state and federal regulations.

Personal Protection Information

Respiratory Protection

Use adequate ventilation to control dust when machining, cutting, drilling, etc. Cover nose and mouth with NIOSH (National Institute for Safety and Health) approved dust mask or filtering facepiece.

Eye Protection

Use goggles or safety glasses when machining, cutting, drilling, etc. Have eyewashes available.

Skin Protection

Wear protective gloves, long pants and long sleeves when machining, cutting, drilling, etc. or use barrier cream if long sleeves are impractical. Wash skin with soap and water after handling. Wash dusty work clothes separately.

The above is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change, and the condition for use or misuse are beyond our control, Tecton Products makes no warranty, either express or implied, about the completeness or continuing accuracy of the information contained herein, and disclaims all liability for reliance thereon. User should be satisfied that he/she has all current data relevant to his /her particular use.

Custom Pultrusion