



SAFETY DATA SHEET

SECTION 01 – IDENTIFICATION

Common / Product Name: Fiber Reinforced Plastic (FRP) Unisub

Revision Date: October 1, 2015

Recommended Use: Various fabricated FRP parts and products

Identification of the Company: Universal Woods Inc.
2600 Grassland Dr.
Louisville, KY 40299-2591
USA
Emergency Telephone No: (502) 491 1477
Other Information Calls: (502) 491 1461

Emergency Information: CHEMTREC 24 HR. Emergency Telephone:
U.S. /North America: (800) 424-9300
International: (703) 527-3887

SECTION 02 – HAZARD(S) 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.

The sublimation or engraving process could also create an odor.

SECTION 03 – COMPOSITION/INFORMATION ON INGREDIENTS

Please Note: Other components used in the sublimation process such as inks are separate materials and are not covered in this MSDS.

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.

Surface finishes are factory applied. These products are classified as an “article” according to 29 CFR 1910.1200(c). They do not release any hazardous chemical under normal conditions of use.

SECTION 04 – FIRST-AID MEASURES

Inhalation: If dust from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention if symptoms persist.

Eyes: Flush eyes with water as a precaution. Get medical attention if irritation develops or persists

Skin: Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops or persists.

Ingestion: First aid is normally not required. Ingestion of large amounts may cause gastrointestinal symptoms.

SECTION 05 – FIRE-FIGHTING MEASURES

Flammable Properties: This product is not flammable. This product is a dust explosion class St-1 at normal moisture level.

Suitable Extinguisher Media: Use re-extinguishing media appropriate for surrounding materials.

Fire Fighting Procedures: 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.

SECTION 06 –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.

SECTION 07 –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.

SECTION 08 –EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL
Dust	TWA: 3 mg/m ³ Form: Respirable particles TWA: 10 mg/m ³ Form: Inhalable particles	TWA: 15 mg/m ³ (total) TWA: 5 mg/m ³ (respirable)

Engineering Controls: Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high.

Personal Protective Equipment

Eye 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 consideration: 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.

SECTION 09 –PHYSICAL AND CHEMICAL PROPERTIES

Color: NA

Odor: Odorless.

Odor threshold: Not available.

Boiling Point: NA

Specific Gravity: 1.2-1.8

Vapor Pressure (mm Hg): NA

Percent Volatile by Volume (%): NA

Vapor Density (Air = 1): NA

Evaporation Rate (BuAc = 1): NA

Solubility in Water: Insoluble.

Physical State: Solid

Form: Solid.

Boiling Point Range: NA

Auto-ignition temperature: NA

Appearance and Odor: Unisub FRP is shaped as a panel or shape. The sublimation or engraving process could also create an odor.

SECTION 10 –STABILITY AND REACTIVITY

Chemical stability: Stable under normal temperature conditions.

Conditions to Avoid: None under normal conditions.

Incompatibility (Materials to Avoid): Alkalies. Strong acids. Oxidizing agents

Hazardous Decomposition Products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization: Does not occur.

SECTION 11 –TOXICOLOGICAL INFORMATION

Product is a solid sheet of FRP. No hazards anticipated during handling and storage.

Acute effects: None known.

Local effects: Dusts may irritate the respiratory tract, skin and eyes.

Carcinogenicity: Not classified.

Sensitization: Not a skin sensitizer.

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.

SECTION 12 –ECOLOGICAL INFORMATION

Ecotoxicity:	Not expected to be harmful to aquatic organisms.
Mobility:	The product is insoluble in water.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Other Adverse Effects:	No data available.

SECTION 13 –DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of in accordance with all applicable regulations.

SECTION 14 –TRANSPORT INFORMATION

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

SECTION 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 No

CRF 355, Appendix A)**Section 311/312 (40 CFR 370)** No

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

SECTION 16 –OTHER INFORMATION

Issuing Date: 10-1-15

Disclaimer

The condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product. The information in the sheet was written based on the best knowledge and experience currently available.