

Product/Chemical #: Carbon Reinforced Polymer (CRP) 4000 Resin Series

Date of Preparation: 3/28/2016



CREATIVE PULTRUSIONS, INC.

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Safety Data Sheet

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Section 1 – Materials and Company Identification

Product/Chemical Name: Thermoset Polyurethane Carbon Reinforced Composite

Trade Name: 4000 Series

General Use: Structural Component

Manufacturer: Creative Pultrusions, Inc., 214 Industrial Lane, Alum Bank, PA 15521-8304

PHONE (814) 839-4186, FAX (814) 839-4276 (8:00AM – 4:30PM EST)

24 Hour Emergency Phone Number: (814) 839-4186

Section 2 – Hazards Identification

GHS-US Classification: As manufactured this product is considered non-hazardous according to GHS.

Label Elements: None required

Other Hazard(s): Product will form dust and particulate matter when drilling, grinding, cutting or sanding. Dust is combustible and conductive.

Acute Effects

Inhalation: Nuisance dust from machining can cause irritation.

Eye: Nuisance dust from machining can cause irritation.

Skin: Nuisance dust from machining can cause irritation.

Ingestion: N/A

Carcinogenicity: N/A

Medical Conditions Aggravated by Long-Term Exposure: N/A

Section 3 – Material Composition and Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Percent by Weight</u>
Polymerized Polyurethane Resin Mixture	None	35%-55%
Carbon Fiber	7440-44-00	45%-65%

Section 4 – First Aid Measures

Inhalation: Remove from dust to fresh air.

Eye Contact: Flush with water or eye rinse.

Skin Contact: Wash with soap and cold water.

Ingestion: N/A

If condition persists, get appropriate in-plant medical support or consult physician.

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Section 5 – Fire Fighting Measures

Flash Point: 675°F / 357.2°C (dust)

Extinguishing Media: Water, Foam, Type A, B, or C extinguishers

Unusual Fire or Explosion Hazards: Do not expose fine dust to an ignition source.

Hazardous Combustion Products: Heavy Smoke, CO, CO₂, and irritating or toxic vapors and gases

Fire-Fighting Instructions: Use self-contained breathing apparatus

Section 6 – Accidental Release Measures

The product as manufactured is non-hazardous. In areas where drilling, grinding, cutting or sanding occurs on this product, care should be taken to clean up dust. Dust deposits should not be allowed to accumulate on surfaces. Dust is considered a St 1 class dust with a Kst (bar-m/s) of less than 100. Avoid dispersal of dust with compressed air.

Section 7 – Handling and Storage

Minimize dust generation and accumulation through routine housekeeping to ensure that dusts do not accumulate on surfaces.

Protective gloves are recommended for handling material comfortably. Long sleeved shirts and pants minimize exposure to nuisance dust.

Section 8 – Exposure Controls/Personal Protection

Component	CAS	Percent	ACGIH TLV	OSHA PEL	Units
Polymerized Polyurethane Resin Mixture	None	35%-55%	Not Established	Not Established	Not Established
Carbon Fiber	7440-44-0	45%-65%	Not Established	Not Established	Not Established
Inert or Nuisance Dust	None	N/A	10	15 (total)	mg/m ³

Engineering Controls / Ventilation: Must comply with NFPA 68

Respiratory Protection: None required if dust is not present. When dust exposures have the potential to exceed regulated values, a NIOSH approved dust mask must be used.

Eye Protection: Safety glasses with side shields or goggles.

General: Safety Glasses, Gloves, long sleeved shirts and pants recommended.

Section 9 – Physical and Chemical Characteristics

Appearance: Various colors and shapes structural profiles

Odor: No significant odor

pH: N/A

Melting Point/Freezing Point: N/D

Initial Boiling Point: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability: N/D

Upper/Lower Explosion Limit: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: 1.61-2.0

Solubility: N/A

Partition Coefficient: N/A

Auto-Ignition Temperature: N/D

Decomposition Temperature: N/D

Viscosity: N/A

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Section 10 – Stability/Reactivity

Stability: Product is stable.

Polymerization: Hazardous polymerization will not occur.

Conditions to avoid: Extreme heat, sources of ignition and flames.

Incompatibilities: Do not store with strong oxidizing agents.

Hazardous decomposition products: Heavy Smoke, CO, CO₂, and irritating or toxic vapors and gases.

Section 11 – Toxicological Information

No toxicological test data is available for this product.

Section 12 – Ecological Information

No ecotoxicity test data is available for this product. This product is not expected to present a hazard to aquatic and terrestrial environments.

Section 13 – Disposal Considerations

As supplied this product is non-hazardous. Consult federal, state and local regulations for proper disposal.

Section 14 – Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not Regulated

Shipping Symbols: N/A

Hazard Class: Not Hazardous

ID No.: N/A

Packing Group: Not Determined

Label: Not Required

Special Provisions (172.102): None

Section 15 – Regulatory Information


TSCA Inventory: All ingredients are on the TSCA inventory.

SARA Section 313: None above de minimus quantity.

SARA 311/312: None as supplied.

OSHA Hazardous Communication Categories: Dust is combustible and an irritant.

Canada-WHMIS Classification: Non-hazardous

California Proposition 65:  **WARNING:** This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer, birth defects, and/or reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16 – Other Information

Refer to NFPA 654, standard for the prevention of fire and dust explosion from the manufacturing, processing and handling of combustible particulate solids, for safe handling of dusts generated during processing.

N/D - Not Determined

N/A - Not Applicable

Prepared By: Ronald W. Allison

Last Revision: 01.25.21

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