

SAFETY DATA SHEET

SDS IDENTIFICATION NAME: V-Wrap Carbon FRP Rod **DATE:** 04/08/15 **PAGE:** 1 OF 5

SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION

MANUFACTURER:
STRUCTURAL TECHNOLOGIES, LLC
10150 Old Columbia Road
Columbia, MD 21046

EMERGENCY TELEPHONE NUMBER:
1-800-424-9300
INFORMATION TELEPHONE NUMBER:
1-410-859-6539

CHEMICAL FAMILY: Carbon Fiber Rebar, CFRP Rebar

SECTION II: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: No unusual conditions are expected from this product.

APPEARANCE AND ODOR:

Black carbon fibers bound with resin. Varying diameters and lengths depending on the style, with no distinctive odor.

STATEMENTS OF HAZARD:

CARBON MATERIAL IS ELECTRICALLY CONDUCTIVE. ELECTRICAL SYSTEMS SHOULD BE PROTECTED FROM EXPOSURE TO AIRBORNE FIBER.
DUST PARTICLES ASSOCIATED WITH CUTTING THIS PRODUCT MAY CAUSE IRRITATION OF THE SKIN, EYES, OR UPPER RESPIRATORY TRACT.

PRIMARY ROUTES OF EXPOSURE:

EYES--YES SKIN CONTACT--YES INHALATION--NO INGESTION--NO

HMIS RATING:

HEALTH--1 FLAMMABILITY--1 REACTIVITY--0 SPECIAL--NONE

POTENTIAL HEALTH EFFECTS:

EYES: Low hazard. Dust may cause temporary irritation.

SKIN: Low hazard for usual industrial or commercial production. No effects expected under normal use.

INHALATION: In some cases – see Section VII. No effects expected under normal use.

INGESTION: Ingestion unlikely under normal use. May cause gastrointestinal irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: Possible Rash.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

| MATERIAL OR COMPONENT | CAS NUMBER | % RANGE | OSHA(PEL) |
|------------------------------|-------------------|----------------|------------------|
| Vinylester Based Resin | NA | 27% | NA |
| Carbon Fibers | NA | 73% | NA |

SECTION IV: FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

EYES: Flush eyes with water and seek immediate medical attention.

SKIN CONTACT: Wash effected area with soap and water. Wash contaminated clothing before reuse. Long pants and good personal hygiene will maximize comfort.

INHALATION: Move victim to fresh air. If breathing has stopped, administer CPR. Call a physician.

INGESTION: Call a physician or poison control center immediately. If professional advice is not available DO NOT induce vomiting or give anything by mouth to an unconscious person.

ADVICE TO PHYSICIANS: Treat symptomatically and supportively.

SECTION V: FIRE FIGHTING MEASURES

FLASH POINT/METHOD OF DETERMINATION: NA

MEANS OF EXTINCTION: Carbon Dioxide Dry Chemical (small fires), Foam and Water Fog (large fires)

FLAMMABLE LIMITS L F L , U F L : NA

SPECIAL FIRE-FIGHTING PROCEDURE: Burning rod will create an acrid heavy black smoke and odor that is extremely offensive. Fire fighters must wear self-contained breathing apparatus (SCBA). Others must seek fresh air immediately.

SECTION VI: ACCIDENTAL RELEASE MEASURES**MEASURES FOR HANDLING PERSONNEL:**

No special measures required.

MEASURES FOR ENVIRONMENTAL EFFECTS:

No special measures required.

MEASURES WHEN HANDLING SPILLED SUBSTANCE:

Not applicable

SECTION VII: HANDLING AND STORAGE**HANDLING:**

SKIN: Wear gloves when possible to protect hands from rough, unfinished surfaces. Long sleeve, buttoned shirts and trousers which cover ankles will protect exposed skin areas during cutting or machining of product.

EYES: Safety glasses with side panel protectors may be appropriate when handling products in a way that creates airborne particles.

INHALATIONS: Use ordinary dust mask protection for the nose and mouth to prevent inhalation exposure during cutting of product.

STORAGE:

No special storage considerations needed.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS: No data are available for the product

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION: None normally required. If airborne dust concentrations exceed permissible exposure levels, use protection for nuisance dust.

VENTILATION: Use local exhaust if necessary to prevent nuisance dust. Eye and Face

PROTECTION: Wear safety glasses with side shields.

SKIN PROTECTION/PROTECTIVE GLOVES: Wear protective gloves to reduce irritation from dust or slivers.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------------|---------------|
| APPEARANCE AND ODOR: | Black |
| BOILING POINT (° F/° C): | Not available |
| MELTING POINT (° F/° C): | 800°C /1472°F |
| SPECIFIC GRAVITY (WATER = 1): | 2.0 |
| pH OF UNDILUTED PRODUCT: | Not available |
| VAPOR PRESSURE (mm Hg.): | Not available |
| VAPOR DENSITY (AIR-1): | Not available |
| VISCOSITY: | Not available |
| SOLUBILITY IN WATER: | Insoluble |

SECTION X: STABILITY AND REACTIVITY

CONDITONS TO AVOID: Exposure to open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, organic acids, lmw hydrocarbons.

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): None known.

SECTION XI: TOXICOLOGICAL INFORMATION

No data available

SECTION XII: ECOLOGICAL INFORMATION

No data available

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of as solid waste in accordance with local, state and federal regulations. Not considered a hazardous waste under federal RCRA regulations.

SECTION XIV: TRANSPORTATION INFORMATION**DOT AND IATA:**

| | |
|-------------------------|----------------|
| PROPER SHIPPING NAME | Not Applicable |
| HAZARD CLASS | Not Applicable |
| UN/NA | Not Applicable |
| DOT HAZARDOUS SUBSTANCE | Not Applicable |
| LABEL REQUIRED | Not Applicable |

SECTION XV: REGULATORY INFORMATION

No data available

SECTION XVI: OTHER INFORMATION

EXPLANATION AND DISCLAIMER: Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the or the direct sources for these laws such as the International Agency for Research on Cancer (ISRC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. ANY EXPOSURE CAN ONLY BE UNDERSTOOD WITHIN THE ENTIRE CONTEXT OF ITS OCCURRENCE, WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE MSDS, AMOUNT AND DURATION OF EXPOSURES, OTHER CHEMICALS PRESENT AND PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.

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