

MATERIAL SAFETY DATA SHEET

V-Wrap C100-G

High Strength Carbon Fiber



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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MATERIAL IDENTITY:

Carbon (Carbon Fiber) V-Wrap C100-G

INFORMATION TELEPHONE:

410-850-7000

COMPANY:

VStructural LLC
7455 T New Ridge Road
Hanover, MD 21076

EMERGENCY TELEPHONE:

CHEMTREC: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL TYPE: Carbon (Carbon Fiber)

CAS Number: N/A

SUBSTANCE () MIXTURE (0); UN CLASS & UN NUMBER : N.A.

Chemical Name	Comp. (%)	Chemical Formula (Constitutional Formula, Structural Formula)	CAS No.	TSCA
Carbon Fiber	≥94	Carbon Fiber	N/A	Registered
Sizing Agent	≤2	Not open to public	Registered	Registered

3. HAZARDS IDENTIFICATION

EYE HAZARDS:

May be a mechanical eye irritant

SKIN HAZARDS:

May cause skin irritation

INGESTION HAZARDS:

May be harmful if swallowed.

INHALATION HAZARDS:

May cause mechanical irritation to the upper respiratory tract.

CHRONIC/CARCINOGENICITY EFFECTS:

N/A

CONDITIONS AGGRAVATED BY EXPOSURE:

N/A

4. FIRST AID MEASURES

EYE

Rinse eyes thoroughly with water for at least 15 minutes. Consult Physician.

SKIN ABSORPTION

Wash affected area with soap and water. Use a wash cloth to help remove the fibers. Get medical attention if irritation persists.

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INGESTION

If swallowed, get medical attention immediately.

INHALATION

Remove to fresh air and support breathing as necessary. Get medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

FLASHPOINT:

N/AV

FIRE AND EXPLOSION HAZARDS:

Avoid exposure through use of self-contained, positive pressure breathing apparatus.

EXTINGUISHING MEDIA

In case of fire, use water spray (fog) foam, dry chemical, or CO2.

FIRE FIGHTING INSTRUCTIONS:

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes, or clothing. Clean up material, put into suitable container and dispose of properly.

7. HANDLING AND STORAGE

HANDLING & STORAGE PRECAUTIONS:

Store in a cool, dry area. Maintain sealed against contamination from dirt and moisture.

WORK/HYGIENIC PRACTICES:

Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use with adequate ventilation.

EYE/FACE PROTECTION:

Safety glasses with side shields or goggles.

SKIN PROTECTION:

Wear protective clothing such as loose fitting clothing, long-sleeved shirt that covers to the base of the neck. Long pants and gloves are necessary to prevent irritation. Skin irritation is known to occur primarily at pressure points such as around neck, wrists, waist, and between fingers.

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RESPIRATORY PROTECTION:

General room ventilation is normally adequate. In areas where the P.E.L.s are exceeded, use a properly fitted NIOSH-approved respirator.

OTHER/GENERAL PROTECTION:

WASH THOROUGHLY AFTER HANDLING. USE VACUUM EQUIPMENT TO REMOVE FIBERS AND DUST FROM CLOTHING AND WORK AREAS. COMPRESSED AIR IS NOT RECOMMENDED.

INGREDIENT(S) – EXPOSED LIMITS: Graphite (Carbon) Synthetic Fiber

Content	Carbon Fiber
OSHA PEL	15 mg/m ³ (TOTAL) 5 mg/m ³ (RESP DUST)
ACGIH TLV:	10.0 mg/m ³ (TOTAL) 3 mg/m ³ (RESP DUST)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black fiber	Odor:	None
Chemical Type:	Mixture	Physical State:	Solid
Melting Point:	6512° F (3600° C)	Specific Gravity:	1.5 – 1.9
Vapor Pressure:	N/A	Vapor Density:	N/AV
PH Factor:	Not Determined	Solubility:	Negligible

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid (Stability): Rapid heating of the product in bulk may produce an uncontrolled exothermic reaction which may char and decompose the sizing system generating unidentified gasses and vapors which may be toxic. Avoid inhalation.
Hazardous Decomposition Products: CO, CO₂, NITROGEN OXIDE, PHENOLS, ALDEHYDES, ACROLEIN, CARBOXYLIC ACID, OTHER TOXIC GASES.
Hazardous Polymerization: Will not occur
Incompatible Materials: None known.

11. TOXICOLOGY INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available.

DISPOSAL CONSIDERATION

Dispose in accordance with applicable federal, state and local government regulations.

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TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:

Not regulated by DOT.

REGULATORY INFORMATION

U.S. REGULATORY INFORMATION:

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA HAZARD CLASSES:

Acute Health Hazard

SARA SECTION 313 NOTIFICATION:

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that VSL believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

N/A = Not Applicable
Established

N/D = Not Determined

N/E = Not