



FCB-240 FABRIC

Section 1. Product and Company Identification

Product Name: FCB-240 Fabric
Supplier: CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491
Emergency Phone Number: 800.424.9300 (CHEMTREC)
 +1 703.741.5970 (Outside the US)
Product Description: Woven/Knitted Carbon Fiber product
Product Use: Carbon tape for repairing pipes
Chemical Name or Synonym: N/A

Section 2. Hazards Identification

Classification of the substance or mixture

Skin corrosion/irritation – Category 2

Serious eye damage/eye irritation – Category 2

Label Elements:



Hazard Statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Signal Word: Warning

Precautionary Statement:

P261 Avoid breathing dust

P280 Wear protective gloves

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Emergency Overview: Black continuous carbon fiber. Not expected to present an immediate concern for emergency response personnel. Not expected to present an immediate health, reactivity, or flammability hazard. Not expected to present an environmental hazard.

Section 3. Composition/ Information on Ingredients

Chemical Name	CAS#	Weight %
Carbon fiber	7440-44-0	>94

Section 4. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure: Flush with copious amount of water. Preferably lukewarm, for at least 20 minutes, holding eyelids open at all times. Get medical attention.



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Skin Exposure: Remove contaminated clothing. Wash affected skin thoroughly with soap and water. If fibers are imbedded in the skin, remove with tweezers. Wash contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops after area is washed.

Inhalation: If there is inhalation exposure to the fibers, remove to an area free from risk of further exposure and move to fresh air. If not breathing give artificial respiration. Obtain medical attention.

Ingestion: Not expected to occur since ingestion is not likely route of exposure for this product. If ingestion does occur, do not induce vomiting. Do not give anything by mouth to an unconscious person, consult a physician.

Most important symptoms/effects, acute and delayed:

Acute Inhalation: Under very limited circumstances exposure to respirable fibers can occur and may result in respiratory tract irritation.

Acute Eye: Fragments of this product may cause mechanical eye irritation. Chemical irritation may occur from exposure to sizing present on the carbon fiber.

Acute Skin contact: May cause skin irritation. Chemical irritation may occur from exposure to sizing present on the carbon fiber.

Over-exposure signs/symptoms: None known

Notes to Physician: No available

Section 5. Fire Fighting Measures

Extinguishing Media: Carbon dioxide, foam, dry chemical, water fog.

Special Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fires from a safe distance or protected areas. Fire hoses with fog nozzles may be used for controlling fires but care must be exercised not to spread flaming. Water may not always be effective for large fires. This material is not expected to burn in fire. If this product is present in a fire, fight fire based on the presence of flammable materials, i.e., packaging material and the sizing may burn off the fiber.

Special Protective Equipment for Fire-fighters: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes helmet, coat, pants, boots, and gloves).

Unusual Fire and Explosion Hazards: Under high heat (> 750 °C), this product may react with oxygen to give off carbon oxides and other decomposition products.

Hazardous Decomposition Materials (Under Fire Conditions): Fiber or dust may glow in an oxygen-containing atmosphere above 50°C. When glowing, and during combustion CO/CO₂ is generated as well as the potential release of degradation products such as NH₃, HCN and monomeric acrylonitrile.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Cleanup and Disposal of Spill: In case of spill, collect spilled material and either reuse or dispose properly (e.g., sweep up, vacuum, etc). Chopped or milled carbon fibers may be slippery if spilled posing an accident risk.



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Section 7. Handling and Storage

Precautions for safe handling: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes. Do not breathe aerosols or vapors. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Ensure good ventilation/exhaustion at the workplace.

Conditions for safe storage including any incompatibilities: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Storage at temperature between 64 °F and 86 °F. Keep away from humidity and water. Keep container tightly closed and sealed until ready for use.

Section 8. Exposure Controls / Personal Protection

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Carbon fiber	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	ND	mg/m ³ (respirable)

Appropriate Engineering Controls: Local exhaust should be used to maintain levels below the TLV whenever MDI is processed, heated or spray applied. Standard reference sources regarding industrial ventilation (i.e., ACGIH Industrial Ventilation) should be consulted for guidance about adequate ventilation.

Personal Protective Equipment:

Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Eye / Face Protection: Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection: The glove material has to be impermeable and resistant to the product. Cover as much of the exposed area as possible, with protective clothing.

Section 9. Physical and Chemical Properties

Physical Appearance:	Woven Carbon Fiber tape	
Odor:	None	
Odor Threshold:	ND	
pH:	ND	
Melting Point Range:	ND	
Boiling point:	ND	
Flash Point:	ND	
Evaporation rate:	ND	
Method Used:	N/A	
Flammability Limits (vol/vol%):	Lower: N/A	Upper: N/A
Vapor Pressure:	None	
Vapor Density:	ND	
Relative Density / Density:	1.6 – 2.0 (carbon fiber) at 20 °C	
Water Solubility:	Insoluble.	
Partition Coefficient (n-octanol/water):	ND.	
Auto-ignition Temperature:	N/A	
Decomposition Temperature:	> 650 °C in air	



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Viscosity: ND

Section 10. Stability and Reactivity

Reactivity: No reactivity

Chemical Stability: Stable

Possibility of Hazardous reactions: No dangerous reactions known. Hazardous polymerization will not occur.

Conditions to Avoid: None

Incompatible Materials / Chemicals: Do not expose to strong oxidizing agents such as fluorine. Carbon fiber can react violently with such compounds

Hazardous Decomposition Products: Not expected under normal conditions of processing and use. Thermal decomposition of sizing may begin to occur at high temperatures (> 120 °C) resulting in the release of small amounts of nitrogen oxides, carbon monoxide, organic compounds, and other potentially hazardous substances.

Section 11. Toxicological Information

Acute toxicological data: There are no acute toxicological data available on this product.

Dermal toxicity: Irritant

Inhalation toxicity: Irritant

Irritant effect on skin: Mechanical skin irritation

Symptoms:

Inhalation: No data available

Eye Contact: No data available

Skin Contact: No data available

Ingestion: No expected to occur

Chronic Health Effects: No data available

Numerical measures of toxicity: No data available

Mutagenicity (Effects on genetic material): No data available

Reproductive toxicity: No data available

Other information (about experimental toxicology):

Carcinogenic Categories: No data available

Section 12. Ecological Information

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

Section 13. Disposal Considerations

Waste treatment methods: If discarded in its manufactured form, this product is not expected to be a characteristic or specifically listed hazardous waste under RCRA. However, it is the responsibility of the user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste.

Uncleaned packaging: Dispose of in accordance to all local, state, and/or national legislation. Do not incinerate carbon fibers since airborne fibers may cause electrical malfunctions.

**Section 14. Transport Information**

U.S./international shipping information under DOT/IMO/IATA regulations: This product is not regulated as dangerous or hazardous goods under DOT, IMO, ICAO, IATA, or UN shipping regulations.

Section 15. Regulatory Information**SARA Title III:**

Section 302 / 304: None

Section 311: None

Section 313: None

CERCLA Section 102 9(a): None

EPA, TSCA Information: This product is an article as defined by TSCA and is not required to be listed in the TSCA inventory.

Section 16. Other Information**NFPA Hazard Ratings:**

Health Hazard: 1

Flammability: 0

Instability: 0

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit

NIOSH – National Institute for Occupational Safety and Health

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Date of issue: 07.23.20

Revision date: 07.23.20

Supersedes: N/A

Version: 1.0