

SAFETY DATA SHEET



Version: 1.1
Date:
7-13-15



1. PRODUCT AND COMPANY IDENTIFICATION

RenewWrap™ Carbon Fiber Fabrics

Product Information: RenewWrap™ CF300, RenewWrap™ ESR CF335, RenewWrap™ ESR CF600

Company Identification:

Milliken Chemical
P.O. Box 1926
Spartanburg, SC, 29303 USA
1-864-472-9041
msds@milliken.com

Emergency telephone Number: Chemtrec

1-800-424-9300 (Chemtrec - US)
1-703-527-3887 (International)

Intended Use: Concrete Related Products

2. HAZARDS IDENTIFICATION

Emergency Overview Follow precautions for safe handling described in this safety data sheet.

The product has been classified according to the legislation in force.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name	CAS Number	Amount
Carbon	7440-44-0	95.0 %
Trade Secret		5.0 %

4. FIRST AID MEASURES

Eye	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
Inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. If respiratory problems, artificial respiration/oxygen.
Skin	If skin irritation or an allergic skin reaction develops, get medical attention.
Ingestion	Give large quantities of water and induce vomiting. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

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5. FIRE-FIGHTING MEASURES

Fire Fighting Media	Water spray, fog, CO ₂ , dry chemical, or alcohol resistant foam.
Fire Fighting Instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Use supplied air respirator if product is involved in a fire. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Unusual Fire & Explosion Hazards	Decomposition may produce fumes, smoke, carbon monoxide, sulphur oxides, nitrogen oxides, and carbon dioxide.
ACCIDENTAL RELEASE MEASURES	Do not release into the environment.

6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup Methods	Collect and dispose of spillage as indicated in section 13 of the MSDS.
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7. HANDLING AND STORAGE

Handling	Avoid inhalation of dust. Provide adequate ventilation. Dust clouds may be explosive under certain conditions.
Handling / Physical hazards	Avoid exposing to heat and contact with strong oxidizing substances. Store in a cool place but keep from freezing.
Storage Precautions	Keep container tightly closed and dry.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls	Minimize dust generation and accumulation. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. Use explosion-proof ventilation equipment.
Eye protection	Chemical goggles are recommended.
Skin and Body Protection	Wear necessary protective equipment.
Personal protection	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. Provide eyewash station and safety shower. Use explosion-proof ventilation equipment. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory Protection	Avoid breathing dust. In case of inadequate ventilation, use respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fiber
Color	Black
Odor	Odorless
Density	1.7 - 1.9 g/ml @ 20 °C
Solubility (in Water)	Insoluble in water
Melting/Freezing Point	3,500 °C
Decomposition Temperature	> 240 °C

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10. STABILITY AND REACTIVITY

Stability	Contact with strong oxidizer or acid liberates poisonous and flammable gas.
Conditions to avoid	Avoid contact with oxidizing agents. Avoid dust formation. Avoid dust close to ignition sources. Dust clouds may be explosive under certain conditions.
Hazardous Polymerization	This product is stable at ambient conditions.
Hazardous decomposition products	Material is stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : Oral
Component: Carbon

Type: LD 50
Species: Rat
Result: >10,000 mg/kg

Specific target organ toxicity - single exposure
Component: Carbon

Type: LD 50
Species: Mouse
Route of Exposure: Intravenous
Result: 440 mg/kg

12. ECOLOGICAL INFORMATION

No data available.

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13. DISPOSAL CONSIDERATIONS

Disposal Recommendations Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Uncleaned empty containers should be disposed of in the same manner as the contents

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

Not regulated.

Sea (IMDG)

Not regulated.

Air (ICAO/IATA)

Not regulated.

Environmental hazards: Not regulated.

15. REGULATORY INFORMATION

Additional information is available by request.

16. OTHER INFORMATION

The information contained in this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Milliken Chemical.
