

Safety Data Sheet in according to EC-Regulation 1907/2006 (REACH) Registration, Evaluation,
Authorization and Restriction of Chemicals, Commission Regulation (EU) No 453/2010

Material Safety Data Sheet

Section 1: Product and company identification

MSDS identification: Recycled Carbon Fibers (rCF)

Information phone no. +48 506 126 749

Product identification: Recycled Carbon Fibers in different varieties

Chemical family: Carbon fibers / Composites

Section 2: Hazards identification

Classification according to Regulation (EC) No 1272/2008 (CLP): Not classified

Physio-chemical hazards: In the supplied forms the product is not explosive at all, however, the build-up of fine dust can lead to a risk of dust explosions. More information – see chapter 10

Human health dangers: See chapter 11 and below

Eye: Dust may cause temporary irritation

Skin: Dust may cause mild irritation. In some cases, the dust may cause allergic skin reactions.

Inhalation: Carbon fibers commonly in use are also greater than six micrometers in diameter, making them unlikely to be respirable.

(Ref.: OSHA Technical Manual (OTM) Section III: Chapter 1 / VI. HEALTHY HAZARDS/ C. Reinforcement Fibers /1. Carbon/graphite fibers)

Permissible Exposure: 15 MCCPF OSHA TWA, 10 mg/m³ ACGIH TWA (Total Dust)

Environmental hazards: See chapter 12

Other hazards: This product and its dusts are electrically conductive.

Least-0 / Slight-1 / Moderate-2 / High-3 / Extreme-4

	Health	Fire	Reactivity
Carbon Fiber	1	0	0
Sizing	1	1	0

Section 3: Composition / information on ingredients

Impurities and stabilizing additives which are classified, and which contribute to the classification of the chemical: None

The chemical name and concentration (i.e., exact percentage) of all ingredients which are classified as health hazards and are present above their cut-off/concentration limits or present a health risk below the cut-off/concentration limits: None

Section 4: First aid measures

Eye contact: Flush eyes with water for 15 minutes.

Skin contact: Wash affected areas thoroughly with soap and water.

Inhalation: Remove from the area of the dust to fresh air. Seek medical attention if you feel unwell.

Ingestion: In the event of deliberate ingestion, do not induce vomiting unless directed to do so by consulting with a doctor.

Section 5: Firefighting measures

Flash Point/Method of Determination: Not determined

Means of Extinction: Use water spray, dry chemical or CO₂ to extinguish fires.

Special Fire Hazards: Avoid exposure through use of a self-contained, positive-pressure breathing apparatus.

Section 6. Accidental release measures

Measures For Handling Personnel: No special measures required.

Measures For Environmental Effects: No special measures required.

Section 7. Handling and storage

Handling: Touching Carbon Fiber directly can cause transient skin irritation.

Exposure control for handling personnel: N/A

Protective measures against fire and explosion: N/A

Storage: Storage in a cool, dry place. Wash hands with soap and water after handling. Wear appropriate protective clothing as described in section 8 during handling activities.

Section 8. Exposure control / personnel protection

Additional advice on system design: Ensure adequate ventilation on workstation. If dust handling systems are used, they should be designed in a manner to prevent the escape of dust into the work area.

Respiratory protection: Breathing apparatus in the event of high concentrations. short term: filter apparatus, filter N95. Dust may produce mechanical irritation to the mucus membranes of the nose, throat and upper respiratory tract.

Hand protection: Butyl rubber, > 120 min (EN 374)

Eye protection: Safety glasses

Skin protection: Mechanical irritation accompanied by itching or dermal effects may occur from exposure to material. Cleanroom type clothing that is a light weight fabric and is well ventilated and prevents the transfer of dust. Consider taping at the wrist and ankle areas to control contact with exposed areas. PPE hazard analysis based on user process should be completed.

General protective measures: Avoid contact with eyes. Do not inhale dust.

Hygiene measures: Wash hands before breaks and after work. Use barrier skin cream.

Delimitation and monitoring of the environmental exposition: Not determined

Summarize: It is recommended for full employee protection, to use of a full-face mask with filters, and lightweight dust coverall.

Section 9. Physical and Chemical properties

Physical State/Appearance: Black Fiber (Can be long or chopped)

Odor: None

Specific Gravity: 1.7 – 2.0 gr/cm³

Vapor Pressure/Density: Not Applicable

Viscosity: Not Applicable

Boiling point: Not Applicable

Melting point: Not Applicable

Volatility: Not Applicable

Solubility: Insoluble

Electrically Conductivity: Yes

Section 10: Stability and reactivity

Stability: Stable under proper handling and storage conditions

Incompatible Materials: None

Products evolved from Heat of Combustion or Decomposition: The products of combustion and decomposition depend on other materials present in the fire and the actual conditions of the fire. Burning will decompose the sizing system, if appropriate, and produce carbon and nitrogen oxides, phenols, aldehydes, acrolein, carboxylic acid, traces of incompletely burned carbon products and other unidentified gases and vapors that may be toxic. Avoid inhalation.

Hazardous Polymerization: Will not occur under proper conditions of use. Rapid heating of the product in bulk may produce an uncontrolled exothermic reaction that may char and decompose the sizing system, if appropriate, generating unidentified gases and vapors that may be toxic. Avoid inhalation.

Section 11: Toxicological information

Carcinogenicity: not determined

Epidemiology: Contact with fly or dust can cause skin irritation.

Teratogenicity/Toxic for reproduction: not determined

Mutagenicity/Neurotoxicity: not determined

Acute toxicity: not determined

Chronic toxicit : not determined

Sub-chronic toxicity: not determined

Section 12: Ecological information

Aquatic toxicity: not determined

Biological degradability: not determined

Bioaccumulative potential: not determined

Mobility in soil: not determined

General information: Ecological data is not available.



Section 13: Disposal considerations

Product:

For recycling, consult manufacturer or recycling, consult waste disposal centers, material can be recycled many times.

EU Waste Number:

160306, 061399, also possible 070213 as composite.

Contaminated packaging:

Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.

EU Waste Number:

150101, 150102

Section 14: Transport information

UN Number: None

Labeling: None

Classification Code: None

This product is not regulated as dangerous or hazardous goods under ADR, RID, DOT, IMO, ICAO, IATA, IMDG or UN shipping.

Section 15: Other information

Special Precautions: recycled Carbon fibers or dust are electrically conductive and may create electrical short-circuits that could result in damage to and malfunction of electrical equipment and/or personal injury.

The data provided in this MSDS is based on the information received from our tests on raw material and other sources believed to be reliable.

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