Valid for cut and chopped carbon fibers

In accordance with regulation (EC) No 1907/2006-

REACH

Revision date: 01/05/2021

1 - PRODUCT AND COMPANY IDENTIFICATION

Product name Carbon Fibers Milled, cut or chopped or granules

Relevant uses rubber belts, thermosetting composites, textile yarns, paints, non-wovens, ablative

and friction materials

Uses advised against None

Company name Suter Kunststoffe AG

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2 - HAZARDS IDENTIFICATION

Main product risk Electricity conducting material. Airborne fibers can short circuit electrical equipment. The

build-up of fine dust can lead to a risk of explosion.

Human health risks Fine dust may irritate skin, eyes and mucous membranes. No case of disease reported.

Environmental risks Known as a non-polluting product, but which may cause electrical short circuits when

dispersed.

Specific risks None

Product and its components are not classified as dangerous according to the decree of 07/12/2009, or

regulations (EC) No 1272/2008(CLP), 67/548/ECC and 1999/45/EC.

3 - COMPOSITION / COMPONENT INFORMATION

Substance/mixture ≥92%
Standard or chemical name Carbon
CAS number 7440-44-0

EINECS/ELINCS number Polymer (231-153-3)
GHS/CLP or hazard symbols Not applicable
R-phrase Not applicable

Substances of Very High Concern (SVHC)

CMR

None or below 0.1%

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4 - FIRST AID MEASURES

General advice Dust may be irritating. Change clothing.

Eye contact Rinse thoroughly with plenty of water for at least 15 min and seek

medical advice

Skin contact Wash thoroughly with water and soap.

Inhalation Remove subject to fresh air.

Seek medical attention if symptoms persist.

Ingestion Rinse mouth and drink water. No medical treatment required

5 – FIRE-FIGHTING MEASURES

Suitable extinguish media All usual extinguishing products appropriate for the surrounding fire

are allowed. Avoid full water jet.

Specific hazards Not flammable or combustible under normal uses.

Risk of formation of toxic pyrolysis products (CO)

Special protective equipment for firefighters Wear full-face, self-contained breathing apparatus to avoid

inhalation of fumes or decomposition products

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Specific methods None

6 – ACCIDENTAL RELEASE MEASURES

Individual precautions None

Environmental precautions Avoid worsening the dispersion

Cleaning methods Avoid dust formation. Clean up with sweep or vacuum.

7 - HANDLING AND STORAGE

Handling precautions Dust can form an explosive mixture with air. Keep away from sources

of ignition - no smoking. Avoid the dispersion of discharging loose

fibers into open air. Wash thoroughly after handling.

No electrical appliances or protect them in sealed or pressurized cases. Insulating varnish may be applied to electronic boards and

electrical terminals.

Technical measures Electrical conducting material – do not cut the carbon fibre

unnecessarily – do not allow contact with electric current sources.

Storage Store in a cool (<50°C), dry and well-ventilated area.

8 - EXPOSURE CONTROLS / INDIVIDUAL PROTECTION

Engineering measures Ensure adequate ventilation on workstation to avoid dust

accumulation.

Control parameters See local regulations. VME for total dust: 10 mg/m³

Long-term exposure for carbon fibers: 0.5 mg/m³ or 0.5 RFP/ml

(respirable fiber-shaped particles)

Personal protective equipment:

concentrations (poor ventilation, fine dust production). Filter

apparatus FFP1 or FFP2.

Skin/hand protection Gloves and protective clothing. Avoid skin contact.

Eye protection Safety glasses with side shields or face protection

Hygiene measures Wash face and hands before eating, drinking or smoking and do it in

separate areas. Use barrier skin cream.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state solid

Form short fiber (filament)
Color black or charcoal grey

Odor none

pH not applicable
Boiling point not applicable
Melting point > 2760°C or 5000°F
Vapor pressure / Vapor density not applicable
Specific gravity (filament) 1.6 to 2.0 g/ml

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Bulk density (shot fibers) 0.1 to 0.3 kg/dm³ depending on whether the fiber is cut, chopped or

milled; depending on its length and the sizing type.

Flash point no information available Viscosity no information available

Flammability not applicable Autoignition temperature not applicable

Oxidizing properties >650 in air, >290 in preparation

Solubility in water and solvents used insoluble fiber – sizing agent soluble in chlorinated solvents, acetone,

DMF

Partition coefficient (n-octanol/water) no information available

10 - STABLITY AND REACTIVITY

Stability Stable.
Conditions to avoid See section 7

Hazardous reactions Reactions with strong oxidizing agents.

Risk of dust explosion if accumulation of fine dust in the air.

Hazardous decomposition products

Oxides of carbon (CO)

11 - TOXICOLOGICAL INFORMATION

Acute toxicity Product presumed non toxic

Local effects Carbon fibers and dust may cause mechanical irritation of the eyes,

skin, nose and throat.

The filament is not breathable (IARC). None carbon fibers with diameter below $3.5\mu m$ ($\geq 7\mu m$) and length below $80\mu m$, therefore they are not considered as "respirable fiber-shaped particles" (RFP \leq

3.5µm diameter)

12 - ECOLOGICAL INFORMATION

Ecotoxicity This material is not classified as dangerous for the environment.

Ecological data are not available.

Persistence and degradability

Mobility in soil

No information available

No information available

PBT/vPvB These products are not classified as PBT or vPvB.

13 - DISPOSAL CONSIDERATIONS

Waste disposal Dispose of wastes in a suitable place according to local regulations –

do not incinerate. Incineration may cause carbon fiber particles to be dispersed into the air which may damage electrical equipment.

Treatment of contaminated packaging Packaging that cannot be cleaned should be disposed of as for

product.

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14 - TRANSPORT INFORMATION

Carbon products are not classified as dangerous in terms of national and international transport regulations – no specific transport label required.

15 - REGULATORY INFORMATION

These products are not submitted to regulations (EC) No. 1272/2008 (CLP), 67/548/EEC, nor No.1999/45/EC. This MSDS has been established in accordance with REACH regulations (EC) No. 1907/2006 and No. 453/2010.

16 - OTHER INFORMATION

We believe that the information contained in this safety data sheet is correct to the best to our knowledge. However, the information contained in this sheet is not exhaustive. This safety data sheet does not anticipate all the circumstances in which the product may be used, nor all the physical and mental characteristics of each individual responsible for its transport or transformation. It is the duty of the user to test and use this product safely, in accordance with the laws and regulations in force. Unless otherwise stated in writing, we accept no responsibility for complaints or damage caused related to the use of this product. For all additional information, please contact Suter Kunststoffe AG.

All the information given in this Material Safety Data Sheet are from carbon fiber producers.