

19 rue Jean Brito - F-56240 PLOUAY - FRANCE contact@apply-carbon.fr - Tel +33 (0) 2 97 65 10 89

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Revision Date: March 2024

SAFETY DATA SHEET

valid for the whole range of our cut and milled carbon fibers

in accordance with regulation (EC) N°1907/2006 – REACH

1 - PRODUCT AND COMPANY IDENTIFICATION

Product name CARBISOTM / CF

milled, cut or chopped carbon fibers

Relevant uses rubber belts, thermosetting composites, textile yarns, paints,

non-wovens, ablatives and friction materials

Uses advised against None

Company name APPLY CARBON S.A.S.

Address 19 rue Jean Brito

F-56240 PLOUAY FRANCE

Telephone number +33 2 97 65 10 89

2 - HAZARDS IDENTIFICATION

Main product risks Electricity conducting material. Airborne fibers can short circuit

electrical equipment. Our carbon fibers are NOT ATEX nor

hazardous.

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

Supplemental hazard risks Could contain traces of epoxy resin that may produce an allergic

reaction: EUH 208.

This product is an <u>ARTICLE</u> that is <u>NOT classified as hazardous</u> according to the decree of 07/12/2009, or regulations (EC) n°1272/2008 (CLP), 67/548/EEC and 1999/45/EC.

3 - COMPOSITION / COMPONENT INFORMATION

Substance/mixture/Article \geq 94% of carbon fiber (in graphite form) Standard or chemical name Carbon fiber on basis polyacrylonitrile

CAS number 7440–44–0

EINECS/ELINCS number Polymer (231–153–3)

GHS/CLP or hazard symbols

R-phrase

Substances of Very High Concern (SVHC)

Not classified

Not applicable

None or below 0.1%

CMR None or below 0.1%

Other components original sizing (epoxy or polyether resins traces) $\leq 1.8 \%$



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4 _	FIRST	MFASI	IRFS

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 extinguishing 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.

Specific methods None

6 - ACCIDENTAL RELEASE MEASURES

Individual precautions Use an individual protection equipment.

Environmental precautions Avoid worsening the dispersion. Prevent entry into waterways,

sewers, basements or confined areas.

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

7 - HANDLING AND STORAGE

Handling precautions Keep away from sources of ignition - no smoking. Avoid the

dispersion of discharging loose fibres into open air. Wash

thoroughly after handling.

No electrical appliances or protect them in sealed or pressurised

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.

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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 FFP2 or FFP3.

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 or baby cleaning milk

to wash hands and face.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state solid

Form short fiber (filament)
Colour black or charcoal grey

Odour none

pH not applicable

Boiling point not applicable

Melting point > 2760 °C or 5000 °F

Vapour pressure/ Vapour density not applicable
Specific gravity (filament) 1.6 to 2.0 g/cm³

Bulk density (short fibers) 0.1 to 0.5 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 none

Decomposition temperature > 650°C in air, > 290°C in preparation

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

acetone, DMF

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



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10 - STABILITY AND REACTIVITY

Stability Stable.

Conditions to avoid See section 7. Avoid contact with heat, flame, spark.

Hazardous reactions Reactions with strong oxidizing agents.

In the supplied form our product is not explosive however the processing and buildup of fine dust can lead to a risk of dust

explosion (accumulation of fine dust in a closed area).

Hazardous decomposition products

Oxides of carbon (CO, COx).

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 μ m (\geq 7 μ m) and length below 80 μ m, therefore they are not considered as "respirable fiber-shaped

particles" (RFP $\leq 3.5 \mu m$ diameter).

12 - ECOLOGICAL INFORMATION

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

Ecological data are not available.

Persistence and degradability Non-polluting, stable product.

No information available.

No information available.

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

13 - DISPOSAL CONSIDERATIONS

Mobility in soil

Bioaccumulation

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

regulations - do not incinerate. Incineration may cause carbon fibre 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 hazardous** in terms of national and international transport regulations – **no specific transport label** required (<u>not ADR</u>). **Not CLP-classified nor GHS classified.**

15 - REGULATORY INFORMATION

These products **are not** submitted to regulations (EC) n°1272/2008 (CLP), 67/548/EEC, nor n°1999/45/EC. This MSDS has been established in accordance with REACH regulations (EC) N°1907/2006 and N°453/2010. All our products don't contain substances of very high concern (SVHC, REACH: EC 1907/2006 & 453/2010) or substances submitted to authorization (ANNEX XIV, REACH) or substances in current GADSL.

These products comply with TSCA (USA), DSL/NDSL (Canada), EINECS/ELINCS (Europe), REACH UK (UK), CH INV (Switzerland), IECSC (China), ENCS (Japan), KECL (Korea) and AICS (Australia) regulations.

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 the QSE Department of Apply Carbon.

Apply Carbon transforms the carbon fibers only by cutting, chopping or milling, at very various lengths, to meet the very large needs of its customers.

Apply Carbon sometimes also mixes different carbon fibers for specific applications or customers requirements.

All the information given in this Material Safety Data Sheet are excerpt from these of its carbon fibers suppliers (TORAYCA, TOHO-TENAX, CYTEC...).