

 COMPOSITES	MATERIAL SAFETY DATA SHEET	No.	0007 v1
	COMPOSITE INSULATION	Date	June 2021

1. Chemical Product and Company Identification

1.1. Product identification

Name of product: **FR3D**

Description of product: Chopped carbon fibre silane mat

Substance/mixture/article:

1.2 Product use: Industrial insulation applications

1.3 Company identification: CFP Composites Ltd
Unit 3-5, Pedmore Road
Dudley, West Midlands
DY2 0RF
United Kingdom

1.4 Contact information: sales@cfpcomposites.com

In case of emergency between 08:00 – 17:00 Monday - Friday

+44 (0) 1384 481136
+ 44 (0) 121 647 2061

2. Hazard identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 Main hazards / harmful effects

Hazards that do not directly lead to a classification:

- Carbon fibres/dust are electrically conductive and may cause electrical short-circuits which could result in damage or malfunctioning of electrical equipment.

2.3 Other hazards

None known

3. Composition / information on components

3.1 Hazardous components or hazardous complex substances

This product including its components are not considered to be hazardous in sense of the Directive 67/548/EEC and Directive 1999/45/EC.

3.2 Chemical characteristics

Carbon Fibre Polysiloxane.

3.3 Hazardous ingredients

This material does not contain any reportable hazardous ingredients.

3.4 Mixtures

Not applicable

3.5 Other substances that are not considered to be dangerous to health and environment

Name	CAS No.	Content %
Fibre or carbon fabric (PAN-based)	7440-44-0	49
Partially cured epoxy resin	Registered	1

4. First aid measures

4.1 General information

In case of accident or if you feel unwell, seek medical advice (show MSDS where possible).

4.2 In case of contact with eyes

- In case of dust, thoroughly rinse eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
- Remove contact lenses if any before continuing to rinse.
- Do not let the victim rub his/her eyes.

4.3 In case of ingestion

- Give water to the victim if conscious, but do not make them vomit. In case of vomiting, do not let the victim swallow the vomit. Do not give anything to ingest to unconscious or convulsing victim.

4.4 In case of inhalation

- After inhalation of vapours or decomposition products, remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

4.5 In case of skin contact

- There are no special measures required. Wash with plenty water or water and soap after prolonged contact with skin. In the event of a visible skin change or other complaints, seek medical advice (show MSDS where possible).

5. Measures in case of fire

5.1 Suitable extinguishing methods

- Use foam, dry powder, carbon dioxide or water-mist/spray.

5.2 Dangerous combustible products and related risks

- Emission of toxic gases, carbon monoxide.

5.3 Special hazards arising from the substance or mixture

- Hazardous combustion products: carbon oxides, silicon oxides.

5.4 Advice for fire fighters

- Special protective equipment for fire fighters.
- Wear self-contained breathing apparatus and protective suit. Keep unprotected persons away.

5.5 Additional information

- Dispose of fire debris and contaminated fire fighter water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Do not breathe dust; avoid contact with eyes and skin.
- Because fine particles may be dispersed, it is advised to wear a dust mask with P3 type filter.

6.2 Environmental precautions

- No special environmental protection measures required. Avoid worsening the dispersion.
- Do not discharge product unmonitored into the environment.

6.1 Clean-up methods

- Collect mechanically. Avoid dust formation.

6.2 Reference to other sections

- See sections 8 for information on exposure control / individual protection.
- See sections 13 for information on disposal.

7. Handling and storage

7.1 Precautions for safe handling

- Handle in accordance with good hygiene and safety practice.

7.2 Technical measures

- Material to be handled with care – Do not cut the carbon fibre unnecessarily. Electricity conducting material, do not allow contact with electric current sources.

7.3 Handling precautions

- Avoid the dispersion of loose fibres – Handle the fibre in well ventilated premises (the ventilation devices should have a filter to avoid discharging loose fibres into open air) where there are no electrical appliances or said appliances are protected in sealed or pressurised cases-

Insulating varnish may be applied to electronic boards and electrical terminals.

7.4 Advise for use and incompatibility with other materials

- Avoid friction which may create loose and flying debris.

7.5 Storage

- Storage conditions do not have an influence on the product properties.
- Use suitable materials for containers.

7.6 Specific end use(s)

- No data available.

8. Exposure control / individual protection

8.1 Exposure limits

- NA.

8.2 Individual protection

If dust is created by cutting and ventilation is inadequate, it is advised to wear a dust mask, eye protection, gloves and clean and dry work wear.

- Respiratory protection: Use protection mask with P3 type filter in case of dispersion of dust.
- Hand protection: Always wear protective gloves which conform to EN 374-1/1/2/3 and EN 420 when handling this product.
- Eye protection: Wear protective goggles or dustproof goggles.

9. Physical and chemical properties

9.1 Physical properties

- Form: Filament – Drapable, mouldable and flexible sheet
- Odour: Odourless
- Colour: Black
- Volumic mass: 1.0 – 1.40 g/cc

9.2 Specific temperature at which physical state changes

- Boiling point: N/A
- Melting point: N/A
- Flash point: N/A
- Self-combusting point: N/A
- Steam pressure: N/A
- Steam density: N/A
- Density: N/A

9.3 Solubility (solubility and solvents)

- Water: Insoluble
- Others: Electricity conducting material

10. Stability and reactivity information

10.1 Chemical stability

- Stable.

10.2 Conditions to avoid

- N/A

10.3 Dangerous decomposition products

- Carbon monoxide.

11. Toxicological Information

11.1 Exposure limits

- | | |
|----------------------|--|
| • Ingestion: | Possible irritation of throat |
| • Inhalation: | Possible irritation of respiratory apparatus |
| • Skin contact: | May cause irritations |
| • Contact with eyes: | May cause irritations |

12. Ecological information

Environment exposure from substances of this preparation is limited due to the physical form of the product.

12.1 Persistence and degradability

Assessment:

- Silicon content: biologically not degradable. Elimination by adsorption to activate sludge.

12.2 Bio accumulative potential

Assessment:

- Bioaccumulation is not expected to occur.

12.3 Mobility in soil

Assessment:

- Polymer component: insoluble in water. Absorbs in soil.

12.4 Results of PBT and vPvB assessment

- Not applicable.

12.5 Other adverse effects

- No information available.

13. Consideration concerning disposal

13.1 Waste treatment methods

Recommendation:

- Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.
- Disposal of polluted packages according to the regulation in waste in force:
 - EWC (European Waste Catalogue): recommendations: 16 03 06
 - 16 kind of wastes not described on the list
 - 16 03 Manufacturing defective products and unused products
 - 16 06 06 other organic wastes than those listed on 16 03 05*

14. Information regarding transportation

- Codes and classifications of international regulations: NA
- Specific transport conditions: NA

15. Regulations information

15.1 Information on EU labelling

- Symbols: NA
- Chemical risk phrases (R-phrases): NA
- EINECS No.:

16. Other information

The information in this document has been gathered from reference materials and product suppliers and is to the best knowledge and belief of CFP Composites Limited accurate and reliable. CFP Composites Limited do not claim that this document is all inclusive and states that it should only be used as a guide. The toxicological effects of components of this product have not been fully investigated. This product should only be used by qualified personnel. The product is for Industrial and Research purposes only. The information is furnished without warranty, expressed or implied, with respect to the use of this information and CFP Composites Limited assumes no legal responsibility for use or reliance upon the data. The data on this sheet relates only to the specific material designated herein.