

 COMPOSITES	MATERIAL SAFETY DATA SHEET	No.	0005 v1
	COMPOSITE COMPONENT	Date	March 2019

1. Chemical Product and Company Identification

1.1. Product identification

Name of product: **ROCCS 1-2-1 Carbon & Aramid Fibre Composite Component**

Description of product: Chopped carbon and Aramid fibre, infused with a Polymer

Substance/mixture/article:

1.2 Product use: Finished parts for industrial 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

This product is not considered to be hazardous in the sense of classification according to Regulation (EC) No. 1272/2008.

2.2 Main hazards / harmful effects

Hazards that do not directly lead to a classification:

- Carbon fibre is an electricity conducting material; it may break up into fine particles.
- Finally dispersed carbon fibre may irritate the skin, eyes and mucous membranes.
- Carbon fibre dust may cause electrical short-circuits which could result in damage or malfunctioning of electrical equipment.
- Risk of dust explosion.

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 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	39.2

3.3 Mixtures

Chemical nature Polymer, Fibres.

Chemical name	EC-No.	CAS-No.	Weight %	Classification (1272/2008/EC)	REACH registration number
Poly-(para-phenylene-terephthalamide)	-	26125-61-1	> 88	-	-

3.4 Information on composition

Sodium sulphate <3%, Fiber finish <1.2%.

Aramid Fibre finish:

The fibre product itself is non-toxic. It may, however, contain up to 1.2% of a fibre finish. If the product is intended for special applications, e.g. in the food industry, please consult the manufacturer prior to application. So far no impairment of health has become known in cases where the product has been used for its intended application. In cases where the product is heat-treated at temperatures of between 130 and 190 °C, the applied fibre finish may evaporate or decompose. If water is used for further treatment, the waste water generated by the process must be treated in a water purification plant in compliance with local regulations.

Residual solvents: none.

4. First aid measures

4.1 General information

Main symptoms Slight skin irritation has been observed in isolated cases (Redness, Itching). Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

- In case of accident or if you feel unwell, seek medical advice (show MSDS where possible).
- If symptoms persist or in all cases of doubt seek medical advice.

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 hands with soap and water 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: nitrogen, carbon monoxide.

5.3 Special hazards

- Possible formation of carbon oxides, nitrogen oxides, silicon oxides and hazardous organic compounds, Hydrogen cyanide.

5.4 Advice for fire fighters

- Special protective equipment for fire fighters.
- Wear self-contained breathing apparatus and protective suit. Keep unprotected persons away.
- When the product is burnt, fine carbon fibre particles may be produced. They may cause short-circuits which could result in damage or malfunctioning of electrical equipment.

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 Storage

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

7.3 Handling precautions

- Avoid the dispersion of loose fibres – Handle the product 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.

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 – solid sheet |
| • Appearance | Black/Yellow when solid |
| • Colour | Black/Yellow when solid |
| • Odour | Odourless |
| • Volumic mass | 1.2 – 1.6 grams per square centimetre |

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 Reactivity

- No hazardous reactivity if stored and handled as prescribed / indicated.

10.2 Chemical stability

- Stable under normal conditions.

10.3 Conditions to avoid

- N/A

10.4 Hazardous / dangerous decomposition products

- Emission of Nitrogen oxides (NO), carbon dioxide (CO), organic materials, hydrogen cyanide (HCN).

11. Toxicological information

11.1 Information on toxicological effects

Toxicological data are not available.

- Acute toxicity
Ingestion No known effect
Skin Contact No known effect
Inhalation No known effect

Chemical name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Poly-(para-phenylene-terephthalamide)	> 75000 mg/kg (Rat)	-	-

- Serious eye damage / irritation
No known permanent effect; may cause irritation of the eye.
- Respiratory or skin sensitisation
No known permanent effect; may cause irritation of the skin and throat
- Carcinogenic, mutagenic and reproductive toxic effects
When used and handled according to specifications, the product has according to our knowledge and experiences no adverse health effects.
- Specific target organ toxicity after single exposure
STOT assessment: Not applicable.
- Severe effects after repeated or prolonged exposure
When used and handled according to specifications, the product has according to our knowledge and experiences no adverse health effects.

- Aspiration hazard

Based on available data, no aspiration danger is given.

12. Ecological information

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

12.1 Toxicity

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

12.2 Persistence and degradability

- Not readily biodegradable.

12.3 Bio accumulative potential

- Bioaccumulation is not expected to occur.

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

- Not applicable.

12.6 Other adverse effects

- No information available.

13. Consideration concerning disposal

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

13.1 Waste treatment methods

- Check for possible recycling.
- 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.
- Recommendation - Disposal according to official regulations.
 - 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 03 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 Carbon Fibre Preforms Limited accurate and reliable. Carbon Fibre Preforms 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 Carbon Fibre Preforms 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.