

 COMPOSITES	MATERIAL SAFETY DATA SHEET	No.	0001 v1
	COMPOSITE COMPONENT	Date	Oct 2018

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 PA resin

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

Classification (1272/2008/EC) Not classified

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 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

Polyamide (PA 6) - Additional information

- The components of this mixture are embedded in an inert polymeric matrix and therefore biologically unavailable. Any possible hazardous ingredients are bound in the polymeric matrix and, therefore, under normal processing and handling conditions the hazard risk is negligible. Contained additives in this mixture do not present a health risk if they are not released during processing (melting smoke, dust).

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 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 and hazardous organic compounds, Hydrogen cyanide.

5.4 Special hazards arising from the substance or mixture

- At temperature of >320 °C can be released: ammonia, carbon monoxide, carbon dioxide, ε-caprolactam, hydrogen cyanide and nitriles.

5.5 Advice for fire fighters

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

5.6 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 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.

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 Information on basic physical and chemical properties

Physical state @ 20 °C	Solid
Appearance	Black/Yellow when solid
Colour	Black/Yellow when solid
Odour	Odourless
pH	Not applicable
Melting point of resin	> 220 °C (DIN 53765)
Boiling point / boiling range	Not applicable
Ignition temperature	> 400 °C (ASTM D1929)
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Flammability limits in air	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1.20 – 1.60 grams / square centimetre
Solubility (in water)	insoluble
Decomposition temperature	> 500 °C
Thermal degradation	> 320 °C (TGA)
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not relevant

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

- Temperatures above 320 °C. To avoid thermal decomposition, do not over heat.

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 effect
- Respiratory or skin sensitisation
No known effect
- 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

- Contains no substances known to be hazardous for the environment.

12.2 Persistence and degradability

- Not readily biodegradable.

12.3 Bio accumulative potential

- Not applicable.

12.4 Mobility in soil

- Not relevant.

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.
- 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

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