

**SAFETY DATA SHEET**  
**PET-CF**



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Date: 01.06.22

Version V 1.0

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**1 PRODUCT AND SUPPLIER INFORMATION**

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Tradename:

Material 4 Print PET-CF

Manufacturer information:

Material 4 Print GmbH & Co. KG  
Scheidkamp 13  
32584 Löhne  
Germany

Recommended Use:

Additive manufacturing

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**2 RISK IDENTIFICATION**

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Classification:

According to Regulation (EC) NO 1272/2008:  
H319: Causes serious eye irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: Can cause allergic reactions to your skin.

Label Warnings:

The hazardous properties of this product are significantly reduced as the hazardous substances are enclosed in a polymeric matrix and are not released when used as intended. This means that labeling with the hazardous substance label is not necessary

Safety instructions:

*Prevention:*

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/ eye protection/ face protection.  
P284 Wear respirator.

*Reaction:*

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.  
P342 + P311 If experiencing respiratory symptoms: Call a poison center / doctor.

Other hazards:

Risk of burns from contact with hot polymer. Dangerous fumes when burning.

### 3 COMPOSITION INFORMATION

Chemical characterization:

CAS number: 89-32-7 EC number: 201-898-9 Index number: 607-098-00-X Registration number: 01-2120755188-46-XXXX	1,2,4,5-benzenetetracarboxylic 1,2:4,5-dianhydride Skin Sens. 1 H317, Eye Dam. 1 H318, Resp. Sens. 1 H334	≥ 1 - < 3 %
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### 4 FIRST AID MEASURES

After inhalation:

Call a doctor if you feel unwell. Provide fresh air. Lay the casualty down, cover and keep warm.

After skin contact:

Molten product can cause severe burns. Solidified product not pull off the skin. After contact with the molten product, cool the affected skin area rapidly with water.

After swallowing:

Call a doctor.

After eye contact:

Flush with water. Consult a doctor if symptoms persist.

### 5 FIRE FIGHTING MEASURES

Extinguishing agent:

Water, dry powder, alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>)

Special protective Equipment:

In case of fire, use respirator mask that is independent from outside air.

### 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and to be used in emergencies procedure:

Ensure adequate ventilation. Wear personal protective equipment

Environmental protection measures:

Do not discharge into drains or rivers.

Methods and material for containment and cleaning up:

Pick up mechanically. Treat the material taken up according to the Disposal section.  
Special danger of slipping due to leaking/spilling product.

### 7 HANDLING AND STORAGE

Handling:

Avoid contact with molten Polymer, generation of dust and electrostatic charging

Storage:

Protect from moisture and UV radiation. Store cool and when not in use keep closed.  
Avoid sources of ignition.

## 8 EXPOSURE AND PROTECTION INFORMATION

Protection and hygiene measures:

Take off contaminated clothing. Wash hands before breaks and at the end of work. Do not eat and drink at work.



Eye/face protection:

Wear Eye/face protection

Handguard:

Tested protective gloves must be worn (DIN EN 374)

Body armor:

Wear suitable protective clothing when working.

Respiratory protection:

In case of insufficient ventilation wear respiratory protection.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Filament

Color:

black

Melting area:

not determined

Boiling point / boiling range

not determined

Flammability

No data available

Upper explosion limit / Upper flammability limit

No data available

Lower explosion limit / Lower flammability limit

The product is not explosive, but the formation of explosive dust/air mixtures is possible

Flash point

not determined

Ignition temperature

not determined

Density

1,4 g/cm<sup>3</sup>

## 10 STABILITY AND REACTIVITY

Reactivity:

If handled and stored as intended, no dangerous reactions will occur.

Chemical stability:

The product is stable when stored at normal ambient temperatures.

Possibility of hazardous reactions:

Finely dispersed particles form explosive mixtures with air.

Burning produces noxious and toxic fumes.

Conditions to avoid:

Keep away from sources of ignition, humidity - No smoking.

Incompatible materials:

No data available

Hazardous decomposition products:

In case of fire may be liberated: aldehydes, carbon monoxide, carbon dioxide (CO<sub>2</sub>).

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## 11 TOXICOLOGICAL INFORMATION

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Acute toxicity:

*Acute oral toxicity*

No data available

*Acute inhalation toxicity*

No data available

*Acute dermal toxicity*

No data available

Skin corrosion/irritation

May cause skin irritation. May cause respiratory irritation.

Serious eye damage/irritation

Contact with dust can cause mechanical irritation of the eyes.

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## 12 ENVIRONMENTAL INFORMATION

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Ecotoxic effects:

Not determined

Biodegradation:

Not determined

Bioaccumulative potential:

No known significant effects or critical hazards

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

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## 13 DISPOSAL INSTRUCTIONS

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Disposal:

Disposal according to EC directives on waste and hazardous waste. In accordance with local and national legislation. According to the European Waste Catalog (EWC), waste code numbers are application-related and not product-related.

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## 14 TRANSPORT NOTICES

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Regulations:

PET-CF is not classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

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## 15 FURTHER INFORMATION

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The information in this safety data sheet corresponds to our knowledge to the best of our knowledge. The information is intended to give you clues for the safe handling of the in this Product specified in the safety data sheet during storage, processing, transport and disposal. The Specifications cannot be transferred to other products. It is the responsibility of the recipient to comply with the applicable legal regulations governing the use of this product.





