

SAFETY DATA SHEET

by EP and Council Regulation (EC) No 1907/2006 (REACH)

PRODUCT NAME: CPE 3D printing filament

Revision date: 6. 12. 2017/1

1 Identification of the substance / preparation and company / undertaking

1.1 Identification of the substance / preparation

Product name: **CPE 3D printing filament**

Other Name: Not listed

Registration number: Not applicable for objects

1.2 Application

Filaments for 3D printing

Intended Use: Designed for professional / industrial use.

1.3 Manufacturer / Supplier:

PARZLICH s. r. o.

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2 Hazards Identification

2.1 Classification

1,4-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol (CAS No. 1038843-64-9) is not classified according to Regulation (EC) 1272/2008 and Directive 67/548/EEC.

2.2 Labelling

Not applicable.

3 Composition / information on ingredients

3.1 Substances

Subject does not contain any hazardous ingredients at concentrations higher than the limit for which it is necessary to classify.

Component	Concⁿ / %	CAS / EC #	Classification
1,4-Benzenedicarboxylic acid, polymer	> 99,9 %	25038-59-9 / -	See section 2

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4 First aid

4.1 Description of first aid

Skin Contact

Contaminated clothing and shoes must be removed. In the case of contact with hot material, quickly cool the molten material with water and call a physician for removing of adhering material and treatment of burn.

Eye Contact:

Immediately flush eyes with water for at least 15 minutes in the case of contact with molten material.

Ingestion:

After ingestion get medical attention.

Indication of immediate medical attention and notes for physician:

Call emergency medical service. If needed, get medical advice. Inform the medical personnel about the material(s) involved to protect themselves. If burned by contact with molten material, immediately cool with water and see a physician for treatment of burn.

5 Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, water, sand

5.2 Special fire-fighting procedures

Wear positive pressure self-contained breathing apparatus (SCBA).

Structural fire fighters' protective clothing will only provide limited protection.

5.3 Special exposure hazards

Thermal decomposition products: Not available

Hazardous combustion products: CO₂, CO

Unusual fire and explosion hazards: No explosion hazards

5.4 Sensitivity to static discharge

Not available.

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6 Accidental release measures

6.1 Personal precautions

Stop leak if you can do it without risk.
Isolate exposed area.
Keep unauthorized personnel away.
Use certificated protective equipment.
Ventilate the leaked area.

6.2 Methods for cleaning up / removal

Do not touch or walk through spilled material.
Prevent entry into waterways, sewers, basements or confined areas.

7 Handling and storage

7.1 Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid contact with molten material.
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures.
Do not unpack the filament if not immediately used.

7.2 Prevention of fire and explosion

Flammable product. Keep away from any source of ignition.

7.3 Precautions for storage

Keep the package closed. Keep in protective aluminium bag with silica gel.
Store the package in a dry place. Recommended temperatures of storage are 2–30 °C.
Do not expose to direct sunlight and UV radiation.
Protect from excessive heat, dust and condensed water.
Use within 12 months from delivery.
Keep away from waterways and sewers. Keep away from any source of ignition.

7.4 Specific end uses

Specific application is listed in the instructions for use on the label of the product packaging or in the product documentation.

8 Exposure controls / personal protection

8.1 Exposure limits/standards

Specific exposure limits have not been established or are not applicable unless listed below.

- EU Regulation: Not available.
- US (NIOSH/OSHA AGGIH):
 - NIOSH- TWA: Not applicable
 - OHSA- TWA: Not applicable
 - ACGIH- TWA: Not applicable
- Regulation in Korean: Not applicable
- Biological Exposure Index: Not applicable

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8.2 Engineering Controls

Provide local exhaust ventilation system or other engineering controls to keep the airborne below their respective threshold limit value.

Check legal suitability of exposure level.

8.3 Personal Protection

Respiratory Protection

- Wear NIOSH or European Standards EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Eye Protection

- An eye wash unit and safety shower station should be available nearby work place.
- Wear safety glasses to protect eyes from scattering toxic substance.

Skin Protection

- When material is heated, wear gloves to protect against thermal burns.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical Appearance:	Solid, natural or colored filament
Odor:	Slight odor
pH:	Not applicable
Melting / freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash point:	Not available
Flammability:	Not available
Evaporation rate:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Negligible (20 °C)
Vapor density:	Not available
Water solubility:	Negligible
Density:	1,25 g/ml (25 °C)
Specific gravity:	> 1
Log partition coefficient (n-octanol/water):	Not available
Auto ignition temperature:	454 °C (ASTM E659)
Decomposition Temperature:	Not available
Viscosity:	Not available

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10 Stability and reactivity

10.1 Stability

Not available.

10.2 Conditions to avoid

Avoid contact with incompatible materials.

Avoid release to the environment.

10.3 Materials to avoid

Not available.

11 Toxicological information

11.1 Acute toxicity

Not available.

11.2 Skin corrosion/irritation

Molten material will produce thermal burns.

11.3 Serious eye damage/irritation

Molten material will produce thermal burns.

11.4 Respiratory or skin sensitization

Not available.

11.5 Germ cell mutagenicity

Not available.

11.6 Carcinogenicity

IARC, NTP, OSHA, ACGIH, EU Regulation 1272/2008, US EPA: not listed.

11.7 Reproductive toxicity

Not available.

11.8 STOT-single exposure

Not available.

11.9 STOT-repeated exposure

Not available.

11.10 Aspiration hazard

Not available.

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12 Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Not available.

13 Disposal considerations

13.1 Disposal method

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

13.2 Disposal precaution

Consider the require attentions in accordance with waste treatment management regulation.

14 Transport information

Not regulated as hazardous for transport.

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15 Regulatory information

15.1 Safety, health and environmental regulations

EU (EINECS/ELINCS/NLPL): Copolyester is not classified as a hazardous substance under EU regulations. The polymer is exempted from listing on EINECS.

TSCA (US Toxic Substances Control Act): All components of copolyester are listed on the TSCA inventory. Any impurities present in this product are exempt from listing. The polymer is exempted from listing on TSCA.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All components of copolyester are listed on the DSL. Any impurities present in this product are exempt from listing. The polymer is exempted from listing on DSL.

ENCS (Japanese Existing and New Chemical Substances): Copolyester is listed on the Japanese Existing and New Chemical Substances

ECL (Korean Toxic Substances Control Act): All components of copolyester are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

IECSC (Inventory of Existing Chemical Substances in China): All components of copolyester are listed on the Inventory of Existing Chemical Substances in China. The polymer is exempted from listing on IECSC.

16 Other information

Incorrect processing can cause degradation of the product. Observe maximum recommended processing temperatures.

16.1 Key literature references and sources for data

Information contained herein is based on our best knowledge and current legislation. MSDS has been further elaborated on the basis of the original safety data sheet provided by the manufacturer.

16.2 List of R-phrases, hazard statements, safety phrases and / or precautionary statements used in the safety data sheet

No.

16.3 More information

The product should not be used for any purpose other than that for which it is intended. As the specific conditions of use are beyond control of the supplier, it is the responsibility of the user to adapt the warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical information about the product.