Safety data sheet CPE+

Ultimaker

1. Identification of the substance / preparation and of the company

1.1 Trade name CPE+

1.2 Use of the product 3D printer filament

1.3 Supplier Ultimaker B.V.

Watermolenweg 2 4191 PN, Geldermalsen

The Netherlands

Emergency phone number In case of toxicological emergency, contact your doctor

2. Hazards identification according to regulation (EC) No 1272/2008 and GHS

2.1 Classification of the substance or mixture No risk exists to the health of users if the product is

handled and processed properly

2.2 Label elements Not applicable2.3 Other hazards Not known

3. Composition / information on ingredients

3.1 Composition Not applicable
3.2 Mixture Copolyester

4. First-aid measures

4.1 Description of first-aid measures

General advice If you feel unwell, seek medical advice (show the label where

possible). Never give anything by mouth to an unconscious

person

In case of inhalation of gases released from molten filament,

move person into fresh air

Skin contact Wash with soap and water. Seek medical attention if symptoms

occur. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water – do not try to peel it off. Seek medical attention, if necessary, for

removal and treatment of the burns

Eye contact Any material that contacts the eye should be washed out

immediately with water. If easy to do, remove contact lenses. Seek medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of water for at

least 15 minutes. Seek medical attention immediately

Ingestion Not probable. Seek medical advice in case ingestion occurs

Note to physician Treat symptomatically

4.2 Most important symptoms and effects, both acute and delayed

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore immediate removal from skin is not necessary

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 General advice Material can accumulate static charges which may cause an

electrical spark (ignition source). Use proper bonding and/or

grounding procedures

5.2 Extinguishing media Carbon dioxide (CO₂), water spray, dry chemical

Unsuitable extinguishing media: not known

5.3 Special hazards arising from the

substance or mixture

Burning produces unpleasant and toxic fumes: carbon oxides

 (CO_x)

5.4 Advice for firefighters Use self-contained breathing apparatus and full protective

clothing

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Avoid breathing gases released from molten filament. Ensure

adequate ventilation, especially in confined areas

6.2 Environmental precautions

6.3 Methods and materials for containment

and cleaning up

Allow to solidify molten material. Dispose of waste and residue

according to local regulations

No data available

6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling Avoid contact with molten material

7.2 Conditions for safe storage, including any

incompatibilities

Product should be stored in a dry and cool place

at temperatures between -20 to +30 °C. Avoid direct sunlight. Minimize moisture uptake by leaving it in a sealed package

with a desiccant

7.3 Specific end use(s) Filament for 3D printing

8. Exposure controls / personal protection

8.1 Control parameters None

DNEL No data available
PNEC No data available

8.2 Exposure controls

Eye protection Use safety glasses for prolonged staring at printing

Skin and body protection Good practice suggests to minimize skin contact. When material

is heated, wear gloves to protect against thermal burns

Respiratory protection If engineering controls do not maintain airborne concentrations

below recommended exposure limits (when applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: air-purifying respirator with an appropriate government approved (where applicable) air-purifying filter, cartridge, or canister. Contact a health and safety professional or

manufacturer for specific information

Hand protection Follow good industrial hygiene practices

Hygiene measures Follow good industrial hygiene practices

Engineering measures Good general ventilation (typically 10 air changes per hour)

is recommended. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls that maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Filament

Color Transparent, black, and white

Odor Slight

Flash point -

Ignition temperature -

Thermal decomposition -

Auto-ignition temperature -

Melting point / range -

Density 1.18 g/cm³
Water solubility Negligible

Solubility in other solvents -

9.2 Other information -

10. Stability

Stable under recommended storage conditions

10.1 Reactivity No data available10.2 Chemical stability Chemically stable

10.3 Possibility of hazardous reactions

No decomposition or hazardous reactions if stored and applied

as directed

10.4 Conditions to avoid Print temperatures above 280 °C (at standard printing speeds)

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products See 5.2

11. Toxicological information

11.1 Information on toxicological effects

Principal routes of exposure Eye contact, skin contact, inhalation, ingestion

Acute toxicity

No data available

Skin corrosion / irritation

No data available

Serious eye damage / eye irritation

No data available

Respiratory or skin sensitization

No data available

Reproductive toxicity

No data available

Carcinogenicity

No data available

12. Ecological information

12.1 ToxicityNo data available12.2 Persistence and degradabilityNo data available12.3 Bio accumulative potentialNo data available12.4 Mobility in soilNo data available12.5 Results of PBT and vPvB assessmentNo data available12.6 Other adverse effectsNo data available

13. Disposal considerations

13.1 Waste treatment methods In accordance with local and national regulations

14. Transport information

ADR Not regulated
RID Not regulated
IATA Not regulated
IMDG Not regulated

Special precautions for user -

15. Regulatory information

Not meant to be all-inclusive - selected regulations represented

15.1 Safety, health, and environmental regulations / legislation specific for the substance or mixture

US Regulations:

Sara 313 title III

TSCA Inventory List Listed

OSHA hazard category -

CERCLA -

WHMIS -

State right-to-know requirements

Other Inventories:

Canada DSL Inventory List Listed

REACH / EU EINIECS -

NEHAPS -

Japan (ECL/MITI) Listed

Australia (AICS) Listed

Korean toxic substances control act (ECL) Listed

Philippines inventory (PICCS) Listed

Chinese chemical inventory (IECSC)

15.2 Chemical Safety Assessment No data available

16. Other information

The information provided in this Safety Data Sheet (SDS) is based on current knowledge and experience. This information is provided without warranty. This information should help to make an independent determination of the methods to ensure proper and safe use and disposal of the filament

Version Version 4.002

Date January 14, 2019