

# Safety data sheet CPE+

**Ultimaker**  
It's in the making

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

<b>1.1 Trade name</b>	CPE+
<b>1.2 Use of the product</b>	3D-Printer filament
<b>1.3 Supplier</b>	Ultimaker (Watermolenweg 2, 4191PN, 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

<b>2.1 Classification of the substance or mixture</b>	No risk exists to the health of users if the product is handled and processed properly
<b>2.2 Label elements</b>	
Labelling	Not applicable
<b>2.3 Other hazards</b>	Not known

## 3. Composition/information on ingredients

<b>3.1 Composition</b>	Not applicable
<b>3.2 Mixture</b>	Copolyester

## 4. First aid measures

<b>4.1 Description of first aid measures</b>	General advice: If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person
Inhalation	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 and seek for 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
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Burns should be treated as thermal burns. The material will come off as healing occurs; therefore immediate removal from skin is not necessary
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No data available
<b><u>5. Firefighting measures</u></b>	
<b>5.1 Extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ), water spray, dry chemical  Unsuitable extinguishing media: not known
<b>5.2 Special hazards arising from the substance or mixture</b>	Burning produces obnoxious and toxic fumes: carbon oxides (CO <sub>x</sub> )
<b>5.3 Advice for firefighters</b>	Use self-contained breathing apparatus and full protective clothing
<b><u>6. Accidental release measures</u></b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Avoid breathing gases released from molten filament. Ensure adequate ventilation, especially in confined areas
<b>6.2 Environmental precautions</b>	No data available
<b>6.3 Methods and materials for containment and cleaning up</b>	Allow molten material to solidify. Dispose of waste and residue in accordance with local regulations.
<b>6.4 Reference to other sections</b>	-
<b><u>7. Handling and storage</u></b>	
<b>7.1 Precautions for safe handling</b>	Avoid contact with molten material
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	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
<b>7.3 Specific end use(s)</b>	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 stare at printing
Skin and body protection	Good practices suggest 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**

### **10.1 Reactivity**

Stable under recommended storage conditions

No data available

### **10.2 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**

Principle 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 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bio accumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

No data available

### **12.6 Other adverse effects**

No 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	Not regulated

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 EINECS	-
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

Na 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 3.003
Date	18/10/2016