CPE+

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)
A safety data sheet is not required for this product. This document was created on a voluntary basis.
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SECTION 1: Identification

1.1. GHS Product identifier

Product form	:	Mixture
Trade name	:	CPE+ (Transparent, Black, White)

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Restrictions on use	:	This product must not be used in applications other than those identified above, without first seeking advice of the supplier

1.4. Supplier's details

Supplier
UltiMaker
Watermolenweg 2
Geldermalsen, 4191 PN
The Netherlands
T +31 (0) 88 383 4000 (9 AM - 5 PM CET)
Product-Compliance@Ultimaker.com

1.5. Emergency phone number

Emergency number	:	+31 (0) 88 383 4000 (during office hours: 9 AM - 5 PM CET)

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Not classified

2.2. GHS Label elements, including precautionary statements

GHS AU labelling
No labelling applicable

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification	:	Risk of thermal burns on contact with molten product.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Copolyester
(proprietary ingredient)

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)	Classification (GHS CA)
Carbon black (Additive for CPE+ Black)	-	CAS-No.: 1333-86-4	< 4	Not classified
Titanium dioxide (Additive for CPE+ White)	-	CAS-No.: 13463-67-7	< 1	Not classified

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. In molten state: Hazardous vapours may be released.

First-aid measures after skin contact : In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Burns caused by molten material must be treated clinically.

First-aid measures after eye contact : Rinse eyes with water as a precaution. In the event of contact with molten product: Immediately flush eyes thoroughly with water for at least 15 minutes. Get immediate medical advice/attention.

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

4.2. Symptoms caused by exposure

Symptoms/effects : No acute and delayed symptoms and effects are observed.

Symptoms/effects after skin contact : Risk of thermal burns on contact with molten product.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

No additional information available

5.2. Specific hazards arising from the chemical

Explosion hazard : Material can accumulate some static charge during transfer. Prevent build-up of electrostatic charges (e.g, by grounding).

5.3. Special protective actions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Environmental precautions

Methods for cleaning up : Sweep up and put in a closed container for disposal. If melted: allow liquid to solidify before taking it up.

6.3. Methods and materials for containment and cleaning up

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. In molten state: Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : To guarantee the quality and properties of the product: Store in a well-ventilated place. Store in original container. Keep container tightly closed to avoid moisture absorption and contamination.

Incompatible materials : Strong oxidizing agents.

Heat and ignition sources : Keep away from heat, sparks and flames. Keep out of direct sunlight.

Storage temperature : -20 – 30 °C (Relative air humidity: <50%)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

Titanium dioxide (Additive for CPE+ White) (13463-67-7)	
Australia - Occupational Exposure Limits	
Local name	Titanium dioxide
TWA (mg/m³)	10 mg/m³
Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)

Carbon black (Additive for CPE+ Black) (1333-86-4)	
Australia - Occupational Exposure Limits	
Local name	Carbon black
TWA (mg/m³)	3 mg/m³
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)

8.2. Appropriate engineering controls

Appropriate engineering controls : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Ventilation conditions (1 printer): Provide a good standard of general ventilation, not less than 2 air changes per hour (assumes a room volume of: 30 m³).

8.3. Appropriate engineering controls

Hand protection:
None under normal conditions. Use insulated gloves when handling this material hot

Eye protection:
None under normal use. In molten state: Wear eye protection

Skin and body protection:
None under normal use. In molten state: Wear suitable protective clothing

Respiratory protection:
None under normal use. In molten state: In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection:

Risk of thermal burns on contact with molten product. Hazardous vapours may be released. In molten state: Wear respiratory protection/heat resistant gloves.

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Filament
Colour	:	Various colours
Odour	:	Slight
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available

Melting point	:	> 100 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1.18 g/cm³
Solubility	:	Water: Negligible
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Explosive limits	:	No data available
Particle size distribution	:	Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No additional information available
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7). Printing process: Do not expose to temperatures above 280 °C.
Incompatible materials	:	Strong oxidizing agents.
Hazardous decomposition products	:	No additional information available
Hardening time:	:	

SECTION 11: Toxicological information

11.1. Effects on humans

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

Symptoms/effects : No acute and delayed symptoms and effects are observed.

Symptoms/effects after skin contact : Risk of thermal burns on contact with molten product.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

Titanium dioxide (Additive for CPE+ White)(13463-67-7)	
LC50 fish 1	> 1000 mg/l

12.2. Persistence and degradability

CPE+ (Transparent, Black, White)	
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

CPE+ (Transparent, Black, White)	
Bioaccumulative potential	No additional information available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
Not regulated for transport		

ADG	IMDG	IATA
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
No supplementary information available		

14.6. Special precautions for user

ADG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

National regulations : All the chemicals contained in this product are listed introductions.
This chemical is not covered by the Standard for the Uniform Scheduling of Medicines and Poisons.
This chemical is not covered by the Agricultural and Veterinary Chemicals Act 1988.

International regulations : Not subject to the Basel Convention (Hazardous Waste).
Not subject to the International Convention for the Prevention of Pollution from Ships (MARPOL).
Not subject to the Montreal Protocol (Ozone depleting substances).
Not subject to the Rotterdam Convention (Prior Informed Consent).
Not subject to the Stockholm Convention (Persistent Organic Pollutants).

SECTION 16: Any other relevant information

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Indication of changes: : Not applicable.

Abbreviations and acronyms:	
ADG	Transport of Australian Dangerous Goods
ATE	Acute Toxicity Estimate
CAS	Chemical Abstract Service number
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
SDS	Safety Data Sheet
STEL	Short-term exposure limit
TWA	Time Weighted Average

SDS AU (GHS Australia) - UM

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.