

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 A safety data sheet is not required for this product. This document was created on a voluntary basis. SDS ID: UM00008

Revision date: 06/12/2023 Supersedes version of: 22/12/2022 Version: 6.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture
Trade name : PLA

(Green, Black, White, Transparent, Orange, Blue, Red, Yellow, Silver Metallic, Magenta,

Pearl White)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : 3D-Printer filament

1.2.2. Uses advised against

Restrictions on use : This product must not be used in applications other than those identified above,

without first seeking advice of the supplier

#### 1.3. Details of the supplier of the safety data sheet

#### **Supplier**

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

### 1.4. Emergency telephone number

| Country        | Organisation/Company          | Address | Emergency number                                | Comment |
|----------------|-------------------------------|---------|---|---------|
| United Kingdom | National Health Service (NHS) |         | 111<br>999 (in life-threatening<br>emergencies) |         |
| Wales          | National Health Service (NHS) |         | 0845 46 47                                      |         |

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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#### 2.3. Other hazards

Other hazards not contributing to the

: Risk of thermal burns on contact with molten product.

classification

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % : This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation,

annex XIII.

| Component  |   |
|--|---|
| Polylactic acid (9051-89-2)  | PBT: not relevant – no registration required vPvB: not relevant – no registration required  |
| Titanium dioxide<br>(Additive for PLA White, Green, Blue, Magenta)<br>(13463-67-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII  |
| Component  |   |
| Polylactic acid(9051-89-2)   | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Titanium dioxide<br>(Additive for PLA White, Green, Blue,<br>Magenta)(13463-67-7)  | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

: Polylactic acid Comments

| Name   | Product identifier   | Conc.<br>(% w/w) | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP] |
|--|--|------------------|---|
| Polylactic acid  | (CAS-No.) 9051-89-2<br>(EC-No.) 618-575-7  | > 95             | Not classified  |
| Carbon black<br>(Additive for PLA Black)                           | (CAS-No.) 1333-86-4<br>(EC-No.) 215-609-9  | < 2              | Not classified  |
| Titanium dioxide<br>(Additive for PLA White, Green, Blue, Magenta) | (CAS-No.) 13463-67-7<br>(EC-No.) 236-675-5<br>(EC Index-No.) 022-006-00-2<br>(REACH-no) 01-2119489379-17 | <1               | Not classified  |

Comments

: Contains less than 1 % of titanium dioxide in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm

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### **SECTION 4: First aid measures**

First-aid measures after eye contact

#### 4.1. Description of first aid measures

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

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 : Take off contaminated clothing. Wash skin with plenty of water and soap. 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.

: 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 after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

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 any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire: Water spray, Dry powder,

Foam, Carbon dioxide.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : Material can accumulate some static charge during transfer. Prevent build-up of

electrostatic charges (e.g, by grounding).

Hazardous decomposition products in case of it under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Aldehydes.

Te monoxide,

5.3. Advice for firefighters

Precautionary measures fire : Do not allow run-off from fire-fighting to enter drains or water courses.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Refer to section 8.2. Remove

contaminated clothing and shoes.

Emergency procedures : None in particular. In molten state: Do not breathe vapours. Ventilate spillage area.

Avoid contact with skin, eyes and clothing.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further

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

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#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

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

before taking it up.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

### **SECTION 7: Handling and storage**

#### 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.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

#### 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 : Oxidising agents. Strong bases.

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

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

### 7.3. Specific end use(s)

3D-Printer filament.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

| Titanium dioxide<br>(Additive for PLA White, Green, Blue, Magenta) (13463-67-7) |   |  |
|---|---|--|
| Ireland - Occupational Exposure Limits  |   |  |
| Local name  | Titanium dioxide  |  |
| OEL (8 hours ref) (mg/m³)   | 10 mg/m³ total inhalable dust<br>4 mg/m³ respirable dust    |  |
| OEL (15 min ref) (mg/m3)  | 30 mg/m³ (calculated-respirable dust) 12 mg/m³ (calculated) |  |
| Regulatory reference  | Chemical Agents Code of Practice 2020                       |  |
| United Kingdom - Occupational Exposure Limits                                   |   |  |
| Local name  | Titanium dioxide  |  |

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| Titanium dioxide<br>(Additive for PLA White, Green, Blue, Magenta) (13463-67-7) |   |
|---|---|
| WEL TWA (mg/m³)   | 4 mg/m³ respirable<br>10 mg/m³ total inhalable                            |
| WEL STEL (mg/m³)  | 30 mg/m³ (calculated-total inhalable)<br>12 mg/m³ (calculated-respirable) |
| Regulatory reference  | EH40/2005 (Fourth edition, 2020). HSE                                     |

| Carbon black<br>(Additive for PLA Black) (1333- | 36-4)                                 |  |
|---|---------------------------------------|--|
| Ireland - Occupational Exposure Li              | mits                                  |  |
| Local name                                      | Carbon black                          |  |
| OEL (8 hours ref) (mg/m³)                       | 3 mg/m³ I (Inhalable Fraction)        |  |
| Regulatory reference                            | Chemical Agents Code of Practice 2021 |  |
| United Kingdom - Occupational Exposure Limits   |                                       |  |
| Local name                                      | Carbon black                          |  |
| WEL TWA (mg/m³)                                 | 3.5 mg/m³                             |  |
| WEL STEL (mg/m³)                                | 7 mg/m³                               |  |
| Regulatory reference                            | EH40/2005 (Fourth edition, 2020). HSE |  |

### 8.1.2. Recommended monitoring procedures

| Monitoring methods |   |
|--------------------|---|
| Monitoring methods | Refer to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) or equivalent national standard(s).  Refer to European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) or equivalent national standard(s).  Refer to European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) or equivalent national standard(s). |

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. 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).

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#### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

| Eye protection:   |                 |                 |          |  |
|---|-----------------|-----------------|----------|--|
| None under normal use. In molten state: Wear eye protection |                 |                 |          |  |
| Туре  | Use             | Characteristics | Standard |  |
| Safety glasses with side shields                            | In molten state |                 | EN 166   |  |

| 8.2.2.2. Skin protectio  | n                        |                          |                   |             |                |
|--|--------------------------|--------------------------|-------------------|-------------|----------------|
| Skin and body prote  | ction:                   |                          |                   |             |                |
| None under normal u  | se. In molten state: Wea | ar suitable protective c | lothing           |             |                |
| Туре   |                          |                          | Standard          |             |                |
| Long sleeved protective clothing EN 13688  |                          |                          |                   |             |                |
| Hand protection:   |                          |                          |                   |             |                |
| None under normal co   | onditions. Use insulated | gloves when handling     | this material hot |             |                |
| Туре   | Material                 | Permeation               | Thickness (mm)    | Penetration | Standard       |
| In molten state:<br>Chemically resistant<br>protective gloves,<br>Heat-resistant | Nitrile rubber (NBR)     | 6 (> 480 minutes)        | >0.35             |             | EN 374, EN 407 |

#### 8.2.2.3. Respiratory protection

| Respiratory protection:  |             |           |                  |  |
|--|-------------|-----------|------------------|--|
| None under normal use. In molten state: In case of insufficient ventilation, wear suitable respiratory equipment |             |           |                  |  |
| Device   | Filter type | Condition | Standard         |  |
| Air-Purifying Respirator (APR), disposable   | Type B/P2   |           | EN 140, EN 14387 |  |

### 8.2.2.4. Thermal hazards

### 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.

### 8.2.3. Other exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands immediately after handling the product. Take off contaminated clothing and wash before reuse.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

: Solid Physical state

Colour : Various colours : Filament **Appearance** Odour : Slight

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: Not available Odour threshold Melting point : 145 - 160 °C Freezing point : Not applicable : Not available **Boiling point** Flammability : Non flammable **Explosive limits** : Not applicable Flash point : Not applicable Auto-ignition temperature : 388 °C : > 250 °C Decomposition temperature : Not available

Viscosity, kinematic : Not applicable
Solubility : Water: Insoluble

Organic solvent: Chloroform

Vapour pressure: Not availableDensity: 1.24 g/cm³Relative density: Not availableRelative vapour density at 20°C: Not applicableParticle size: Not availableParticle size distribution: Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Do not expose to temperatures above 300 °C.

### 10.5. Incompatible materials

Oxidising agents. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Aldehydes.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Based on available data, the classification criteria are not met Acute toxicity (dermal) : Based on available data, the classification criteria are not met

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Acute toxicity (inhalation) : Based on available data, the classification criteria are not met Skin corrosion/irritation : Based on available data, the classification criteria are not met Additional information : Product dust may cause mechanical irritation to the skin and mucous membranes.

Serious eye damage/irritation : Based on available data, the classification criteria are not met Additional information : Dust from this product may cause minor eye irritation : Based on available data, the classification criteria are not met Respiratory or skin sensitisation : Based on available data, the classification criteria are not met Germ cell mutagenicity : Based on available data, the classification criteria are not met Carcinogenicity Reproductive toxicity : Based on available data, the classification criteria are not met STOT-single exposure : Based on available data, the classification criteria are not met

STOT-repeated exposure : Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Aspiration hazard

PLA (Green, Black, White, Transparent, Orange, Blue, Red, Yellow, Silver Metallic, Magenta, Pearl White)

Not applicable

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: Contains no substances identified as having endocrine disrupting properties

#### 11.2.2 Other information

Viscosity, kinematic

No additional information available

### **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-

: Not classified

term (chronic)

### Titanium dioxide (Additive for PLA White, Green, Blue, Magenta) (13463-67-7) LC50 fish 1 > 1000 mg/l

### 12.2. Persistence and degradability

| PLA<br>(Green, Black, White, Transparent, Orange, Blue, Red, Yellow, Silver Metallic, Magenta, Pearl White) |                   |  |
|---|-------------------|--|
| Persistence and degradability Not biodegradable.  |                   |  |
| Polylactic acid (9051-89-2)   |                   |  |
| Biodegradation  | Not biodegradable |  |

#### 12.3. Bioaccumulative potential

| PLA<br>(Green, Black, White, Transparent, Orange, Blue, Red, Yellow, Silver Metallic, Magenta, Pearl White) |                     |  |
|---|---------------------|--|
| Bioaccumulative potential   | No bioaccumulation. |  |

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#### 12.4. Mobility in soil

No additional information available

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

| Component  |  |  |
|--|--|--|
| Polylactic acid (9051-89-2)  | PBT: not relevant – no registration required vPvB: not relevant – no registration required   |  |
| Titanium dioxide<br>(Additive for PLA White, Green, Blue, Magenta)<br>(13463-67-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |  |

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: Contains no substances identified as having endocrine disrupting properties

#### 12.7. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional waste regulation

: Dispose of in accordance with relevant local regulations.

Waste treatment methods

 $: \ \, \text{Dispose of contents/container in accordance with licensed collector's sorting} \\$ 

instructions

Product/Packaging disposal recommendations

: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG          | IATA          | ADN           | RID           |  |
|--|---------------|---------------|---------------|---------------|--|
| 14.1. UN number or ID number           |               |               |               |               |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |
| 14.2. UN proper shipping name          |               |               |               |               |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |
| 14.3. Transport hazard class(es)       |               |               |               |               |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |
| 14.4. Packing group                    |               |               |               |               |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |
| 14.5. Environmental hazards            |               |               |               |               |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |
| No supplementary information available |               |               |               |               |  |

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#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

**Inland waterway transport** 

Not regulated

Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

Not required

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

| Indication of changes: |  |          |          |
|------------------------|--|----------|----------|
| Section                | Changed item                           | Change   | Comments |
| 3.1                    | Composition/information on ingredients | Modified |          |

Training advice

: Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.

| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland<br>Waterways |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road                |  |
| CAS                         | Chemical Abstract Service number   |  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                        |  |
| IATA                        | International Air Transport Association  |  |
| IMDG                        | International Maritime Dangerous Goods   |  |

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| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
|-------|---|
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| PBT   | Persistent Bioaccumulative Toxic  |
| SDS   | Safety Data Sheet   |

Safety Data Sheet applicable for regions

: IE - Ireland;GB - United Kingdom

SDS EU (CLP) - 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.