

## Safety Data Sheet

According to EU Directive 1272/2008, as amended

Product name: **Maertz PLA Matt**

Date of issue: 23.10.2018

Version: 1.0

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

**1.1 Trade name**  
Maertz PLA Matt

**1.2 Use of the product**  
3Dprinter Filament

**1.3 Supplier**  
IGO3D GmbH  
Am Brabrinke 14  
30519 Hannover, Germany  
Phone: +49 (0) 511 89 88 87 12  
Emergency Phone: +49 (0) 511 89 88 87 10

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### 2. Hazards identification

**2.1 Classification of the substance or mixture**  
Classification according to Regulation (EC) N° 1272/2008 (CLP):  
This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**2.2 Label elements**  
Labelling (REGULATION (EC) No 1272/2008)  
Not a hazardous substance or mixture.

**2.3 Other hazards**  
Not available.

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### 3. Composition/information on ingredients

**3.1 Composition of the substance**  
Polymer-blend based on Polylactid acid filled with additives. The components are not hazardous or are below required disclosure limits.

**3.2 Additional information**  
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**3.3 For full text of R- and H-phrases**  
See section 16.

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### 4. First aid measures

#### 4.1 Description of first aid measures

General Notes:

If inhaled:

In case of gases evolving from melted resin, move subject to fresh air and let him rest. Treat symptomatically.

In case of skin contact:

In case of contact with molten polymer immediately cool the skin with cold water. Medical aid may be required to remove adhering material and for treatment of burns.

In case of eye contact:

If easy to do, remove contact lens, if worn. In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain. In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

If swallowed:

Rinse mouth with water and let subject drink more water. Seek medical advice if subject is feeling unwell.

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

No special indications

#### 4.3 Indication of any immediate medical attention and special treatment needed

No special indications

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### 5. Fire fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media:

Water, foam, dry chemical powder, Carbon dioxide fire extinguishers.

Unsuitable extinguishing media:

Full water Jet.

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

Hazardous Combustion Products:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to:

Carbon monoxide, Carbon dioxide, Hydrocarbons.

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- 5.3 Advice for fire fighters**  
Protective equipment:  
Self-contained breathing apparatus (SCBA).

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## 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Keep out of irrigation ditches, sewers, and water supplies. Spills should be collected to prevent contamination of waterways. Isolate area. Wear protective equipment. Ensure adequate ventilation and avoid dust inhalation. Keep away from ignition sources. Keep unprotected persons away.
- 6.2 Environmental precautions**  
Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water. Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water, sewage system or soil.
- 6.3 Methods and materials for containment and cleaning up**  
Sweep up and contain spilled material if possible. Risk of slipping. Collect in suitable and properly labelled containers.
- 6.4 Reference to other sections**  
Refer to section (8,13).

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## 7. Handling and storage

- 7.1 Handling**  
Avoid contact with molten polymer. Avoid generation of dust and electrostatic charge.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Protect against moisture. Store cool and keep packaging closed when not in use. Avoid sources of ignition, avoid dust formation.

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### 8. Exposure controls / personal protection

#### 8.1 Control parameters

Dnel: Dnel/Dmel- values are not available

PNEC: PNEC values are not available

#### 8.2 Exposure controls

Personal protection:

- Eye protection: Wear safety glasses for general purpose. Wear chemical goggles for cleaning moulding machines.
- Respiratory protection: Wear masks for cleaning moulding machines, in case of dust, wear mask with particle filter.
- Hand protection: Chemical resistant gloves (EN 374). Suitable materials, also with longer and direct contact (protective index 6, >480 min penetration time / permeation time according to EN374) Nitril rubber, isoprenechloroprenerubber, PVC etc. Heat-insulating gloves when handling molten form.
- Skin and body protection: Gloves necessary for handling molten resin, wear overall and safety shoes. Avoid contact of hot material with the skin.
- Hygiene measures: Wash hands after handling

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Solid Filament
Odour	Odourless – slight odour
Colour	Depending on colour
Odour threshold	Not determined
pH	Not applicable
Melting point / freezing point	120-170°C
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Not available
Bulk density	Not available
Solubility(ies)	Partially soluble in water
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	>280°C
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

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### 10. Stability

#### 10.1 Reactivity

Non-reactive under normal handling and storage conditions.

#### 10.2 Chemical stability

Stable under normal handling and storage conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reactions observed under normal handling and storage conditions.

#### 10.4 Conditions to avoid

While printing, keep away from sparks and open flame. Exposure to elevated temperatures can cause product to decompose.

#### 10.5 Incompatible materials

Avoid strong acids and peroxides.

#### 10.6 Hazardous decomposition products

None under normal handling and storage conditions.

#### 10.7 Hazardous polymerization

Not likely occurs.

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### 11. Toxicological information

#### 11.1 Information on toxicological effects

Toxicological effects:

Acute toxicity: No known toxicity.

Skin corrosion/irritation: Non irritating.

Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: No sensitivity.

Toxicity with repeated administration: Negative.

Carcinogenicity: Lack of data.

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## 12. Ecological information

### 12.1 Toxicity

Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

### 12.2 Persistence and degradability

This water-insoluble polymeric solid is difficult to decompose.

### 12.3 Bio accumulative potential

To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

Containers must be recycled in compliance with national legislation and environmental regulations.

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

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### 14. Transport information

Product has been classified as being non-dangerous substance according to transport regulations.

- 14.1 UN number**  
Not applicable
- 14.2 UN proper shipping name**  
Not applicable
- 14.3 Transport hazard class(es)**  
Not applicable
- 14.4 Packing Group**  
Not applicable
- 14.5 Environmental hazards**  
No additional data is available
- 14.6 Special precautions for user**  
No data available
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
Not applicable
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### 15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**ANNEX XVII of EG No 1907/2006**  
Restrictions regarding EC no.1907/2006 Annex XVII are not applicable for the identified use of the product as mentioned in this MSDS.
- 15.2 Chemical Safety Assessment**  
For this substance a chemical safety assessment is not executed.

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### 16. Other information

Information is referenced from other manufacturers.

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.