

Safety Data Sheet

According to EU Directive 1907/2006, as amended

Product name: **Maertz PLA Glitter**

Date of issue: 04.09.2018

Version: 1.0

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

1.1 Trade name

Maertz PLA Glitter

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

2. Hazards identification

2.1 Classification of the substance or mixture

Not classified according to Directive 1272/2008/EC

2.2 Label elements

None

2.3 Other hazards

Danger of burns in contact with hot polymer and hazardous vapors in case of burning.

3. Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polylactic acid	9051-89-2	<96%	Non-hazardous

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4. First aid measures

4.1 On 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.

4.2 After inhalation

After inhalation of decomposition gases or dust remove patient to fresh air. Contact a doctor in case of discomfort.

4.3 On ingestion

No effects known. Rinse mouth with water and drink more water. Contact a doctor in case of discomfort.

4.4 On eyes contact

Rinse open eyes thoroughly with water.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, Dry powder, Carbon dioxide (CO₂).

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

During incomplete combustion release of carbon monoxide, carbon dioxide and hydrocarbons.

5.3 Advice for fire fighters

Fire fighting measures:

Evacuate non-essential personnel, move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

5.4 Remark

Accumulations of dust can be inflammable.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not touch or walk through spilled material. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Use personal protective equipment. Ensure adequate ventilation. Risk of slipping.

6.2 Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

6.4 Reference to other sections

Refer to section (8)

7. Handling and storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture / water.

8. Exposure controls / personal protection

8.1 Control parameters

Components with occupational exposure limits

Contains no substances with occupational exposure limit values.

Biological Limit Values

Not established.

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PNEC

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

DNEL

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

8.2

Exposure controls

Appropriate Engineering Controls:

Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 230°C / 446°F.

Individual protection measures, such as personal protective equipment:

Eye Protection:

Tightly fitting safety goggles (EN166).

Hand Protection:

Protective gloves (EN374): Butyl rubber. Glove thickness: 0.5 mm. Break through time: >8 hours.

Skin and body protection:

Long sleeved clothing.

Respiratory Protection:

In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter Type P2 / FFP2.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Environmental exposure controls:

The product should not be allowed to enter drains, water courses or the soil.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Solid Filament
Odour	Odourless
Colour	depending on product grade
Odour threshold	Sweet
pH	Not applicable
Melting point	150-170°C / 302-446°F
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Ca. 1.1-1.3 g/cm ³
Solubility(ies)	Insoluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	388°C
Decomposition temperature	>250°C
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

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10. Stability

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions observed under normal handling and storage conditions.

10.4 Conditions to avoid

Temperatures above 230°C / 446°F.

10.5 Incompatible materials

Oxidizing agents, Strong bases.

10.6 Hazardous decomposition products

Burning produces obnoxious and toxic fumes Aldehydes, carbon monoxide (CO), carbon dioxide (CO₂).

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Ingestion: No known effect.

Skin Contact : No known effect.

Inhalation : No known effect.

Product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials, are mechanically irritating to eyes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Germ Cell Mutagenicity:

Not known to cause heritable genetic damage.

Carcinogenicity:

Contains no ingredient listed as a carcinogen.

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Reproductive Toxicity:

Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

STOT-single exposure:

No known effect.

STOT-repeated exposure:

No known effect.

Aspiration Hazard:

No known effect.

12. Ecological information

12.1 Toxicity

Contains no substances known to be hazardous for the environment.

12.2 Persistence and degradability

Decomposes in contact with water. Hydrolysis product (S-lactic acid): Readily biodegradable.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No information available.

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13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:
Generation of waste should be minimized, check possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.

Contaminated Packaging:
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Product has been classified as being non-dangerous substance according to transport regulations ADR, RID, IMDG, IATA/ICAO

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 evaluated

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15. Regulatory information

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

Restrictions on use: None
Other Regulations : No information available

15.2 Chemical Safety Assessment

No information available.

16. Other information

Information is referenced from other manufacturers.

Abbreviations and acronyms

REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances
EC: European Commission
STOT: Specific Target Organ Toxicity
PBT: Persistent, Bioaccumulative, Toxic
vPvB: very Persistent and very Bioaccumulating
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Dangerous Goods Code
ICAO: International Civil Aviation Organization

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.