

## PET-g ESD · Safety Data Sheet

In accordance with paragraph (d) of 29 CFR 1910.1200:2012 Regulation (EU) No. 1907/2006

### Section 1. Chemical Product and Company identification

**Product Name**

Smart3D Polyethylene Terephthalate-Glycol

**Importer**

Industry Supplies, Inc.  
2035 Sunset Lake Road Newark, Delaware 19702 USA.  
Email: support@smart3d.tech  
USA Emergency Poison Control Hot Line (24/7): 1 (800) 222-1222 or call your LOCAL POISON CONTROL CENTER

### Section 2. Hazards Identification

**GHS Classification**

Not applicable

**Precautionary statements**

**GHS label elements Hazard symbols**

None needed

**Prevention**

None needed

**Signal word**

None needed

**Response**

None needed

**Hazard statement**

None needed

**Storage**

None needed

**EU Classification**

**Classification of substance or mixture**

REGULATION (EC) No 1272/2008 - This product is not classified as dangerous according to EC criteria.

**OSHA Regulatory Status**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulation.

**Other hazards**

NFPA rating: (0-4 steps) Health=1, Flammability=0, Reactivity=0

### Section 3. Composition

**Chemical name**

Copolyester

**Chemical family**

Polymer, thermoplastic, polymer resin

**CAS n./ ECL n./ EINECS n.**

25038-91-9/EC 607-509-2

**Product use**

Monofilament for FFF 3D Printing

**Contents (%)**

100

### Section 4. First-Aid Measures

**Skin contact**

It is unlikely that first aid shall be needed. In case of contamination, rinse skin with running water. Molten material may cause thermal burns. Get medical attention when in case of burn or skin irritation.

**Inhalation**

Heating may release irritating fumes. Wear NIOSH approved full or half face piece respiratory protective equipment when necessary

**Eye contact**

It is unlikely that first aid shall be needed. In case of dust in the eyes, rinse immediately eyes with plenty of water at least 15 minutes. If irritation persists, get medical advice from and ophthalmologist.

**Ingestion**

Not likely due to nature of product. It is unlikely that first aid shall be needed. The product is not considered toxic. Drink plenty of water. It may cause gastrointestinal blockage, get medical advice.

**Notice to physician**

It is unlikely that first aid shall be needed if the product is used under ordinary conditions. Treat symptomatically according to victim's conditions and specifics of incident.

**Antidote**

None known. Treat symptomatically and supportively.

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### Section 5. Fire-fighting measures

#### Flammability

According to UL 94

#### Suitable extinguishing media

Suitable extinguishing media: CO<sub>2</sub>, water, sand

#### Unsuitable extinguishing media

None known

#### Specific hazards arising from the chemical

- Thermal decomposition products: Not available
- Hazardous combustion products: CO, CO<sub>2</sub>
- Unusual fire and explosion hazard: No explosion hazards

#### Hazardous combustion products

Carbon monoxide, Carbon dioxide, Hydrogen cyanide (HCN). Levels of fire hazard: Not available.

#### Fire fighting procedures and equipments

Wear appropriate personal protective equipment (see section 9. EXPOSURE CONTROLS/PERSONAL PROTECTION). Avoid inhalation of smoke or gas when fire fighting. Use self contained breathing apparatus (SCBA) for protection against possible exposure. Isolate hazard area and deny entry. Stay upwind and keep out of low areas. Move container from fire area if it can be done without risk. Cool containers with water until well after fire is out.

#### Special protective equipment and precautions for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA)
- structural fire fighters protective clothing will only provide limited protection

### Section 6. Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency procedures

Stop leak if it can be done without risk.  
Isolate exposed area.  
Exclude unauthorized personnel.  
Use certified protective equipment.  
Ventilate the leaked area.  
Do not touch or walk through spilled material.

#### Methods and Materials for Containment and Cleaning Up

Use sweeping brush or vacuum cleaner

#### Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

### Section 7. Handling and Storage

#### Handling

Keep away from the molten plastic while printing in case of being burned.

#### Storage

Store at temperatures not exceeding 50°C/122°F. Keep cool. Avoid heat, flames, sparks and other sources of ignition. Keep away from incompatible materials.

#### Incompatible materials

Oxidizing agents

#### Precautions for safe handling

- Avoid contact with molten material
- Use general dilution ventilation and / or local exhaust ventilation to control airborne exposures
- Prevention of Fire and Explosion: Not available

#### Conditions for safe storage

Keep container closed. Store container in a well dry/cool place. Keep away from waterways and sewers. Keep away from any source of ignition

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### Section 8. Exposure Controls / Personal Protection

#### Exposure limit under ISHL

Not applicable

#### ACGIH

Not applicable

#### Biological exposure limits

Not applicable

#### EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health

#### Surveillance Measures

There are no biological limit values for any of this product's components

#### Engineering Controls

- Provide local exhaust ventilation system or other engineering controls to keep any airborne contamination below the respective threshold limit value.
- Check legal suitability of exposure level.

#### Personal Protective Equipment

#### Respiratory Protection

- Wear NIOSH approved full or half face piece (with goggles) respiratory protective equipment when necessary.

#### Eye/face/skin Protection

- An eye wash unit and safety shower station should be available nearby work place.
- Wear safety glasses to protect eyes when working with molten material.
- It is a good industrial hygiene practice to minimize skin contact.
- When material is heated, wear gloves to protect against thermal burns

### Section 9. Physical & Chemical Properties

#### Appearance

Monofilament, spool

#### Vapour pressure

Negligible (20°C)

#### Physical State

Solid

#### Solubility

Negligible

#### Odor

Slight Odor

#### Vapour density (Air=1)

Not available

#### pH

Not available

#### Relative density

1.27 gr/ml (25°C)

#### Melting point

Softening point >100°C

#### Partition coefficient of n-octanol/water

Not available

#### Initial Boiling Point/Boiling Ranges

Not available

#### Autoignition Temperature

454°C (ASTM E 659)

#### Flash point

Not available

#### Decomposition Temperature

Not available

#### Evapourating Rate

Not available

#### Viscosity

Not available

#### Flammability (solid, gas)

Not available

#### Molecular weight

Not available

#### Upper/Lower Flammability or explosive limits

Not available

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### Section 10. Stability & Reactivity

#### Reactivity / Stability

This product is chemical stable.

#### Possibility of hazardous reaction

None Known.

#### Conditions to avoid

Avoid contact with incompatible materials.

#### Materials to avoid

Not available.

#### Hazardous decomposition products

Not available.

### Section 11. Toxicological information

#### Information on the likely routes of exposure

##### Inhalation

No data available. Not expected to be harmful. Dust may cause irritation of the upper respiratory tract.

##### Ingestion

No data available. Not expected to be harmful.

##### Eye/Skin

No data available. Not expected to be harmful. Molten material may cause burns.

##### Genotoxicity

No data available. Not expected to be harmful.

##### Medical conditions aggravated by exposure

No data available.

### Section 12. Ecological Information

#### Ecotoxicity

No data available

#### Persistence and Degradability

No data available

#### Bioaccumulative Potential

No data available

#### Mobility

No data available

### Section 13. Disposal Considerations

#### Disposal methods

Dispose of contents/container in accordance with applicable local, regional, national, and/or international laws and regulations. Avoid release to the environment. Incineration should be done in accordance with prevailing municipal, state, and federal laws and standards from local environmental agencies.

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### Section 14. Transport Information

<b>US DOT Information</b> <b>UN/NA number</b> Not regulated for transport of dangerous goods	<b>ICAO/IATA</b> <b>UN-No.</b> Not regulated for transport of dangerous goods	<b>IMDG:</b> <b>UN-No.</b> Not regulated for transport of dangerous goods
<b>Proper shipping name</b> None	<b>Proper shipping name</b> None	<b>Proper shipping name</b> None
<b>Hazard class</b> Not applicable	<b>Hazard class</b> Not applicable	<b>Hazard class</b> Not applicable
<b>Packing group</b> None	<b>Packing group</b> None	<b>Packing group</b> None

### Section 15. Regulatory Information

**U.S. Federal Regulations**  
**SARA 313**  
 Not listed

**OSHA (29CFR 1910.1200):**  
 Not Listed

**EC Classification:**  
 Not Listed

**Issue date**  
 2017. 10. 28

#### Disclaimer:

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