

	Dongguan Imai Intelligent Technology Co.,Ltd	Document and Revision Number	IGEF010 REV-02
	Material Safety Data Sheet	Revision Date	2022.12.04

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Product name	IEMAI 3D printing filament	Product code	PETG
Product use	A filament to be used in 3D printing applications.		

Revision date: 04/12/2022

Manufacturer / supplier:

Dongguan Imai Intelligent Technology Co.,Ltd

Address:

3 / F, Building C, Kanghuier Industrial Park, 178 Yongjun Road, Shuilang, Dalingshan Town, Dongguan City, China.

Responsible / issuing person:

info@iemai3d.com

Emergency telephone numbers:

+86-769-83060912

2. HAZARDS IDENTIFICATION

Health effects:

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Prolonged and /or repeated contacts: Risk of skin sensitization. When handled at high temperatures, can cause serious burns.

Eye contact:

Contact with eyes may cause irritation.

Skin contact:

Substance may cause slight skin irritation.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Glycol modified polyethylene glycol terephthalate polymer

CAS Number: 25038-91-9


4. FIRST AID MEASURES

Inhalation:

After inhalation of decomposition products, remove the affected person to a source of fresh air. Call a physician immediately.

Skin contact:

Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.

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Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Call a physician immediately.

Ingestion:

Drink water as a precaution. Never give anything by mouth to an unconscious person.

Do not induce vomiting without medical advice. Call a physician immediately.

Notes to physician:

Treat symptomatically.

5. FIRE- FIGHTING MEASURES

Suitable extinguishing media : Water, carbon dioxide (CO₂), sand.

Special extinguishing procedure: Wear self-contained breathing apparatus. Complete with protective clothing.


Explosion hazards: None.

Physical and chemical hazards: None.

Hazardous decomposition: Burning produces carbon monoxide (CO), carbon dioxide (CO₂).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

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Stop the leakage if you can do it without risk. Do not touch or walk through spilled material. Isolate exposed area. Keep unauthorized personnel away.

Use certificated protective equipment. Ventilate the leaked area.

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up:

Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Workers should be protected from the possibility of contact with molten material during fabrication. Use personal protective equipment.


Conditions for safe storage, including any incompatibilities. Further information on storage conditions:

Protect against moisture. Avoid extreme heat.

Avoid all sources of ignition: heat, sparks, open flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

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Provide sufficient air exchange and / or exhaust in work rooms.

Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Eye/face protection:

Wear safety glasses for general purpose.

Hand protection:

Wear gloves (product handled in molten state).

Skin and body protection:

Wear protective clothing (product handled in molten state).

Respiratory protection:

In case of dust formation, wear a dust mask. In case of insufficient ventilation, wear suitable respiratory equipment.

General safety and hygiene measures:

Avoid contact of molten material with skin. Avoid inhalation of dusts / mists / vapors.


Eye wash fountains and safety showers must be easily accessible.

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Filament.

Odour: Slight.

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pH Value: Not applicable.

Vapor pressure: Negligible.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Density: 1.27g/ml (25°C).

Solubility in water: Negligible.

Melting / freezing point: Not applicable.

Boiling point/Boiling range: Not applicable.

Flash point: Not applicable.

Flammability: Not applicable.

Auto ignition temperature: 454°C (ASTM E659).

Decomposition temperature: Not applicable.


10. STABILITY AND REACTIVITY

Stability: Not available.

Conditions to Avoid: Avoid contact with incompatible materials. Avoid release to the environment.

Materials to avoid: Not available.

11. TOXICOLOGICAL INFORMATION

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Acute toxicity: Not available.

Skin corrosion / irritation: Molten material will produce thermal burns.

Serious eye damage / irritation: Molten material will produce thermal burns.

Respiratory / skin sensitization: Not available.

Germ cell mutagenic: Not available.

Carcinogenicity: EU Regulation 1272/2009

Reproductive toxicity: Not available.

Aspiration hazard: Not available.

12. ECOLOGICAL INFORMATION

Toxicity: Not available.

Persistence and degradability: Not available.

Bio accumulative potential: Not available.


Mobility in soil (and other compartments if available): Not available.

Results of PBT and vPvB assessment: Not available.

Other adverse effects: Not available.

13. DISPOSAL CONSIDERATIONS

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.

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14. TRANSPORT INFORMATION

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Dangerous as defined by the EU CLP 2008:

This product is not classified and labeled as dangerous according to EC directives.

TSCA (US Toxic Substances Control Act):

All components of the co-polyester are listed on the TSCA inventory. The polymer is exempted from listing on TSCA.

DSL (Canadian Domestic Substance) and CEPA (Canadian Environment Protection Act):

All components of the co-polyester are listed on the DSL. The polymer is exempted from listing on DSL.

AICS/NICNAS (Australian Inventory of Chemical Substances and National Industrial

Notification and Assessment Scheme:


The co-polyester are listed on AICS or otherwise comply with NICNAS.

ENCS (Japanese Existing and New Chemical Substances):

The co-polyester is listed on the Japanese Existing and New Chemical Substances.

ECL (Korean Toxic Substances Control Act):

All components of the co-polyester are listed on the Korean inventory or otherwise

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comply with the Korean Toxic Substances Control Act.

TSCA (US Toxic Substances Control Act):

All components of the co-polyester are listed on the TSCA inventory. The polymer is exempted from listing on TSCA.

IECSC (Inventory of Existing Chemical Substances in China):

All components of the co-polyester are listed on the Inventory of Existing Chemical Substances in China. The polymer is exempted from listing on IECSC.

16. OTHER INFORMATION

Product safety data sheet for the co-polyester prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, Regulation (EC) 1272/2008.

This Material Safety Data Sheet (MSDS) is based on the legal provisions of the REACH Regulation (EC) 1907/2006; Article 31 and Annex II, as amended. Its contents are intended as guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in the MSDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability, for particular application, and does not establish a legally

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valid contractual relationship.