	Dongguan Imai Intelligent Technology Co.,Ltd	Document and Revision Number	IGEF012 REV-02
	Material Safety Data Sheet	Revision Date	2022.12.02

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	PA
Product use	A filament to be used in 3D printing applications.		

Revision date: 02/12/2022

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

Adverse human health effects: None.

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Environmental effects: None.

Physical and chemical hazards: None.

Special hazards: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Nylon 12	Other
CAS Number	24937-16-4	/
Weight	≥99%	≤1%

Remarks: No hazardous ingredients.

4. FIRST AID MEASURES

Inhalation:

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Call a physician immediately in case of discomfort.

Skin contact:


Areas affected by molten material should be quickly placed under cold running water.

Burns caused by molten material require hospital treatment.

Eye contact:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

Call a physician immediately.

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Ingestion:

Induce vomiting with medical advice. Rinse mouth and then drink plenty of water. If difficulties occur, seek medical attention.

5. FIRE- FIGHTING MEASURES

Suitable extinguishing media: Foam, water spray, dry powder.

Fire and explosion hazards: None.

Special fire-fighting procedure: Minimize dust generation and accumulation.

Special protective equipment: Wear a self-contained breathing apparatus. Fire fighters must wear fire resistant personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear appropriate personal protective equipment.


Environmental precautions:

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

Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal.

Reference to other sections:

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Information regarding exposure controls / personal protection and disposal considerations can be found in section 8 and 13.

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:

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


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

Apply measures to prevent dust explosions.

Respiratory protection:

Effective dust mask. In the case of vapor formation use respirator with an approved filter.

Hand protection:

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Use additional heat protection gloves.

Eye protection:

Safety glasses with side- shields (frame goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical- protection suit.

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.

Color: Black.

pH Value: Not applicable.


Melting temperature point / Melting temperature range:

182 °C / 190°C to 240°C

Boiling point / boiling range: Not determined.

Flash point: Not determined.

Flammability: No data available.

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Vapor pressure: Not determined.

Density: 1.1g/cm³.

Relative vapor density: Not determined.

Solubility in water: Insoluble.

Ignition temperature: No data available.

Decomposition temperature: No data available.

10. STABILITY AND REACTIVITY

Reactivity:

No hazardous reactions if stored and handled as prescribed / indicated.

Chemical stability:

The product is stable if stored and handled as prescribed / indicated.

Conditions to avoid:

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


Avoid moisture.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

No data available.

Irritation:

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Fumes generated from decomposing resin may be irritant to eyes.

Respiratory / skin sensitization:

May cause irritation of respiratory tract.

Germ cell mutagenic:

No data available.

Carcinogenicity:

No data available.

Reproductive toxicity:

No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure):

No data available.

Other relevant toxicity information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.


12. ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and degradability: Product is not biodegradable.

Bio accumulative potential: No data available.

Mobility in soil (and other compartments if available): No data available.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Must be disposed of or incinerated in accordance with local regulations.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATORY INFORMATION

Not available

16. OTHER INFORMATION

The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.