

Section 1: Product and company identification

1. Identification of the material

INTAMSYS Ultem™ 1010 Filament

2. Identified Uses

Used primarily for extrusion-based 3D printing processes

3. Manufacturer information

Manufacturer:

INTAMSYS TECHNOLOGY CO., LTD.

Address:

Building E11, 3188 Xiupu Road, Pudong New Area, Shanghai, China

Tel/Fax:

+86 021 58465932 / +86 021 58463623

4. Emergency contact number

Emergency telephone number:

+86 021 58465932; or call LOCAL POISON CONTROL CENTER

Section 2: Hazards identification

1. Classification of the substance of mixture

REGULATION (EC) No 1272/2008: The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Physical hazards: none.

2. Label elements

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

3. Other hazards

Can burn in a fire creating dense, toxic smoke.

Section 3: Composition/information on ingredients

1. Substances

Chemical Name	CAS No.	Weight (%)
Polyetherimide	61128-46-9	100%

Section 4: First aid measures

1. Description of first aid measures

1.1. Inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

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1.2. Skin contact

Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.

1.3. Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

1.4. Ingestion

No hazards which require special first aid measures. Not probable due to nature of the product. If a large amount of pellet material is swallowed, consult a physician for medical treatment.

2. Most important symptoms and effects, both acute and delayed

No information available.

3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

Section 5: Fire-fighting measures

1. Suitable extinguishing media

Water. Dry powder. Foam. Carbon dioxide (CO₂).

2. Special hazards arising from the substance or mixture

Burning produces noxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO₂). Hydrogen cyanide.

3. Advice for fire fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental release measures

1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

3. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

Section 7: Handling and storage

1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Ensure adequate ventilation. Prevent contact with molten product. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

2. Conditions for safe storage

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Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure controls/personal protection

1. Control parameters

Exposure Limits:

None established.

2. Engineering controls

Provide appropriate exhaust ventilation at places where dust is formed or the material is molten, such as during printing.

3. Personal protective equipment

Wear gloves when handling hot/molten material.

Section 9: Physical and chemical properties

1. Information on basic physical and chemical properties

Appearance: Filament, Solid

Color: Different according to coloration

Odor: Odorless

Odor threshold: Not available

Softening point: Not available

Boiling point: Not applicable

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability: Not available

Upper/lower flammability or explosive limits: Not available

Vapor pressure: Not applicable

Vapor density: Not applicable

Relative density: 1.2–1.4 g/cm³

Water Solubility: Insoluble

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: 630°C estimated

Decomposition temperature: Not available

Viscosity: Not applicable

Section 10: Stability and reactivity

1. Reactivity

The product is stable.

2. Chemical stability

Material is stable under normal conditions.

3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

4. Conditions to avoid

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

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5. Incompatible materials

Not available

6. Hazardous decomposition products

Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates, other substituted hydrocarbons.

Section 11: Toxicological information

1. Likely routes of exposure

Inhalation:

Non-irritating to the respiratory system.

Skin contact:

Non-irritating. Molten polymer will adhere to skin causing deep thermal burns.

Eye contact:

May cause physical abrasion in contact with eyes. Molten polymer will cause serious burns to the eyes.

Ingestion:

Not an expected route of exposure. Ingestion may cause stomach discomfort.

2. Symptoms

Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may cause temporary irritation.

3. Information on toxicological effects

No information available.

Section 12: Ecological information

1. Toxicity

Fishes: Not available.

Algae: Not available.

2. Persistence and degradability

No data available.

3. Bioaccumulative potential

No data available.

4. Mobility in soil

Not available.

5. Other adverse effects

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Section 13: Disposal considerations

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:

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- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

Section 14: Transport information

UN/ID No.: Not regulated
UN Proper shipping name: Not regulated
IMDG Code: Not regulated
Hazard Class: Not regulated
Packing Group: Not regulated
Special precautions: No information available
Marine pollutant: Non-marine pollutant

Section 15: Regulatory information

REGULATIONS

The product needs to follow local regulations.

Section 16: Other information

Revision information

Date of this revision: May 15, 2021

Declare to reader

During handling and use, product can cause static discharge. In the presence of flammable materials, a fire and/or explosion may occur. Molten material may cause thermal eye burns. Molten material may cause thermal skin burns. Processing vapors may cause respiratory tract irritation.