

Section 1: Product and company identification

1. Identification of the material

INTAMSYS PPA-CF 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

1.1. Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

1.2. Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2. Label elements

Not applicable.

3. Other hazards

Not likely to be an irritant in the solid form. Danger of burns when heated/molten material is handled.

Section 3: Composition/information on ingredients

1. Substances

Chemical Name	CAS No.	Weight (%)	Exposure Limits
Nylon	—	84-85	None
Chopped Carbon Fiber	—	15	None
Additives	—	0-1	None

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Section 4: First aid measures

1. Description of first aid measures

1.1. Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical attention if you feel uncomfortable.

1.2. Skin contact

Remove contaminated clothing and wash skin thoroughly with soap and water. Get medical attention if you feel uncomfortable.

1.3. Eye contact

Separate the eyelids and rinse with running water or saline. Get medical attention if you feel uncomfortable.

1.4. Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if you feel uncomfortable.

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

Dust: Skin irritation, eye irritations and redness.

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

Treat symptomatically. (Decontamination, vital functions).

Section 5: Fire-fighting measures

1. Suitable extinguishing media

Suitable extinguishing media

Use water spray, dry chemical, foam or carbon dioxide.

Avoid using DC water to extinguish the fire. Direct current water may cause splashing of flammable liquids and spread the fire.

2. Special hazards arising from the substance or mixture

Not applicable.

3. Advice for fire fighters

Firefighters should wear a gas-filled respirator or an activated carbon mask, wear a full-body fire suit and extinguish the fire in the upwind direction.

Move the container from the fire to the open space as much as possible.

If the container in the fire has changed color or sounded from a safe pressure relief device, it must be evacuated immediately.

Isolation of the accident site, prohibiting unrelated personnel from entering. Contain and handle fire water to prevent environmental pollution.

Section 6: Accidental release measures

1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

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ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

2. Environmental precautions

No special environmental precautions required.

3. Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

1. Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

2. Conditions for safe storage

Store in a cool place at room temperature and humidity. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure controls/personal protection

1. Control parameters

Components with workplace control parameters

2. Engineering controls

General industrial hygiene practice.

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

a) Appearance: Black solid

b) Odour: Odorless

c) Odour: Threshold no data available

d) pH: no data available

e) Melting point/freezing point: Melting point: 237°C

f) Initial boiling point and boiling range: no data available

g) Flash point: no data available

h) Evaporation rate: no data available

i) Ignition temperature: no data available

j) Upper/lower flammability or explosive limits: Non-explosive

k) Vapour pressure: no data available

l) Vapour density: no data available

m) Density: 1.20g/cm³

n) Water solubility: no data available

o) Partition coefficient: n-octanol/water: no data available

p) Autoignition temperature: no data available

q) Decomposition temperature: no data available

r) Viscosity: no data available

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Section 10: Stability and reactivity**Reactivity**

Non-reactive under normal handling and storage conditions.

1. Chemical stability

Data no available.

2. Possibility of hazardous reactions

Data no available.

3. Conditions to avoid

Data no available.

4. Incompatible materials

Strong oxides, strong acids, strong bases.

5. Hazardous decomposition products

Data no available.

Section 11: Toxicological information**1. Likely routes of exposure**Inhalation:

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.

Skin contact:

Dust may irritate skin.

Eye contact:

Dust may irritate the eyes.

Ingestion:

May cause discomfort if swallowed.

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

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data. May cause irritations.

eye damage/eye irritation: Lack of data. May cause irritations.

Sensitisation to the respiratory tract: Lack of data. Not to be expected

Skin sensitization: Lack of data. Not to be expected

Germ cell mutagenicity/Genotoxicity: Lack of data. Not to be expected

Carcinogenicity: Lack of data. Not to be expected

Reproductive toxicity: Lack of data. Not to be expected

Specific target organ toxicity - single exposure: Lack of data.

Dusts: Irritating to eyes, respiratory system and skin.

Specific target organ toxicity - repeated exposure: Lack of data.

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Section 12: Ecological information

1. Toxicity

Data no available.

2. Persistence and degradability

Data no available.

3. Bioaccumulative potential

Data no available.

4. Mobility in soil

No data available.

5. Other adverse effects

General information:

Do not allow to enter into ground-water, surface water or drains.

Section 13: Disposal considerations

Waste treatment methods

Recycle as much as possible.

If it cannot be recycled, use incineration for disposal or consult a licensed waste disposal unit for proper disposal.

When burying, it must be implemented in accordance with government regulations.

The finished product or waste after heat molding does not decompose at normal temperature.

Remember: Do not allow spills and cleaning waste to flow into municipal sewers and open bodies of water.

Section 14: Transport information

ADR/RID:

UN number

Not applicable

UN proper shipping name

Proper Shipping Name: NOT REGULATED

Transport hazard class(es)

Not applicable

Packing Group

Not applicable

Environmental hazards

Not considered environmentally hazardous based on available data

Special precautions for user

Special Provisions: no data available

Hazard identification No: no data available

ADNR / ADN

UN number

Not applicable

UN proper shipping name

Proper Shipping Name: NOT REGULATED

Transport hazard class(es)

Not applicable

Packing Group

Safety Data Sheet

Not applicable

Environmental hazards

Not considered environmentally hazardous based on available data

Special precautions for user

no data available

IMDG

UN number

Not applicable

UN proper shipping name

Proper Shipping Name: NOT REGULATED

Transport hazard class(es)

Not applicable

Packing Group

Not applicable

Environmental hazards

Not considered environmentally hazardous based on available data

Special precautions for user

EMS Number: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

ICAO/IATA

UN number

Not applicable

UN proper shipping name

Proper Shipping Name: NOT REGULATED

Transport hazard class(es)

Not applicable

Packing Group

Not applicable

Environmental hazards

Not considered environmentally hazardous based on available data

Special precautions for user

no data available.

Section 15: Regulatory information

1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulatory information Please note that waste disposal should also comply with local regulations.

If applicable, the chemical meets the requirements of the Regulation on the Safety Management of Dangerous Chemicals (adopted by the State Council on January 9, 2002).

2. Chemical safety assessment

For this substance a chemical safety assessment is not yet required.

Section 16: Other information

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to

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Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.