Safety Data Sheet

INTAMSYS ABS-HT Filament Version 01

Section 1: Product and company identification

1. Identification of the material
INTAMSYS ABS-HT Filament

2. Identified Uses
Used primarily for extrusion-based 3D printing processes

3. Manufacturer information
Manufacturer:
INTAMSYS TECHNOLOGY CO., LTD.
Address:
1&4F, Building 2, No.24&26, Gubo Road Pudong New District, 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
Acrylonitrile-Butadiene- Styrene copolymer	9003-56-9	>98	None
Additives	——	≤2	None

Section 4: First aid measures

1. Description of first aid measures

Remove affected persons from the danger area, at the same time ensuring your own safety. Remove all contaminated clothing immediately.

1.1. Inhalation
In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically.

1.2. Skin contact
In case of pellets or powder, wash with water. In case of smelt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice.

1.3. Eye contact
In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain. In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

1.4. Ingestion
Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

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
Water, foam, dry chemical powder.

2. Special hazards arising from the substance or mixture
Not applicable.

3. Advice for fire fighters
Protective equipment: Self-contained breathing apparatus.

Section 6: Accidental release measures

1. Personal precautions, protective equipment and emergency procedures
Filaments remained on ground may cause slipping Wear protective equipment
Ensure adequate ventilation
Keep away from ignition sources
Keep unprotected persons away.

2. Environmental precautions
Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water, sewage system or soil.

3. Methods and materials for containment and cleaning up
Recovery if not contaminated or disposal.

Section 7: Handling and storage

1. Precautions for safe handling

Measures to prevent fire:
No biological exposure limits noted for the ingredient(s)
Measures to prevent aerosol and dust generation:
maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.

2. Conditions for safe storage

Store in ambient temperatures. Avoid exposure to high moisture levels. No special restrictions on storage with other products. Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

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: Various
Odor: Odorless or negligible
Odor threshold: None
pH: Not applicable
Melting point/freezing point: Not determined
Boiling point: Not applicable
Flash point: 404˚C
Evaporation rate: Not applicable
Flammability: Not available
Upper/lower flammability or explosive limits: 45 g/m3 (open cup, powder)
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: 1.03 - 1.10 g/cm^3
Solubility: No soluble
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: 466˚C
Decomposition temperature: Onset of decomposition > 380˚C
Viscosity: Not applicable.

Section 10: Stability and reactivity

1. Reactivity

Non-reactive under normal handling and storage conditions.

2. Chemical stability
Stable under normal handling and storage conditions.

3. Possibility of hazardous reactions
Data no available.

4. Conditions to avoid
Avoid excessive heat, flames and all sources of ignition.

5. Incompatible materials
not applicable.

6. Hazardous decomposition products
not applicable.

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.

Section 12: Ecological information

1. Toxicity
Short-term aquatic toxicity:

Based on available data on the constituents the classification criteria are not met.
LC(50)mixture = 5.78 mg/l (additivity and summation method, toxicity information available for 92,5 % of the mixture)
Long-term aquatic toxicity:
Based on available data on the constituents the classification criteria are met and the mixture is therefore classified as Aquatic Chronic 1. NOECmixture = 0.0079 mg/l (additivity and summation method,
toxicity information available for 78 % of the mixture)

2. Persistence and degradability
Further details:
Biodegradation: Product is not readily biodegradable. The product is likely to persist in the environment.
Effects in sewage plants:
In sewage treatment plants it may be separated mechanically.

3. Bioaccumulative potential
To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

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

1. Waste treatment methods
Product / Packaging disposal:
Dispose in accordance with the current local regulations.
Waste treatment-relevant information:
Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM.

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
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

Authorization and / or restrictions on use: None
Other EU regulations: The following substances are under European Seveso regulation:

Substance	Seveso category	Other Seveso categories	Seveso concentrations	Categories
Acrylonitrile	2	9ii/7b	10% ≤ C < 20%	2
Buta-1,3-diene	0	7b	-	-

Styrene	6	-	C ≥ 12.5%	-

2. Chemical safety assessment

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

Section 16: Other information

Revision information
Date of this revision: July 17, 2026
Declare to reader
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.