

Section 1: Product and company identification

1. Identification of the material

INTAMSYS SP3030 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

No need for classification according to GHS criteria for this product.

2. Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

3. Other hazards

The product may cause burns, if handled in the melted state.

Section 3: Composition/information on ingredients

1. Substances

Not applicable

2. Mixtures

Chemical nature:

polymer blend based on: alcohols

Section 4: First aid measures

1. Description of first aid measures

1.1. Inhalation

Keep patient calm, remove to fresh air.

Safety Data Sheet

1.2. Skin contact

Wash thoroughly with soap and water.

1.3. Eye contact

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

1.4. Ingestion

Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: No hazards anticipated.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Section 5: Fire-fighting measures

1. Suitable extinguishing media

Dry powder, foam, carbon dioxide.

2. Special hazards arising from the substance or mixture

Harmful vapours, carbon oxides

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated.

3. Advice for fire fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6: Accidental release measures

1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. Spilled material may cause slippery floors. Use personal protective clothing.

2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

3. Methods and materials for containment and cleaning up

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up. Pack in tightly closed containers for disposal.

Dispose of contaminated material as waste according to item 13.

Section 7: Handling and storage

Safety Data Sheet

1. Precautions for safe handling

Provide suitable exhaust ventilation at the drying process and in the area surrounding the melt outlet of processing machines. Personal protective equipment should be worn during open handling. Avoid contact with skin and eyes. Provide exhaust ventilation if dust is formed. Keep safety distance from accumulated hot melt. Caution in the area of the melt-outlet during process start-up and during process interruptions, as well as at excessive processing. Protect against moisture.

2. Conditions for safe storage

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Do not store in steel or stainless steel containers; polyethylene is the preferred material.

Storage stability:

Avoid extreme heat.

Avoid freezing.

Frost sensitive:

The packed product will be damaged by high temperatures.

Section 8: Exposure controls/personal protection

1. Control parameters

Components with occupational exposure limits

67-56-1: Methanol

2. Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Suitable respiratory protection for higher concentrations or long-term effect: (Particle filter EN 143 P1)

Hand protection:

Chemical resistant protective gloves (EN 374)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

General safety and hygiene measures

Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied

Section 9: Physical and chemical properties

1. Information on basic physical and chemical properties

Appearance: Filament, Solid

Color: Different according to coloration

Odor: Almost Odorless

Odor threshold: Not available

pH: 5-7

Melting range: 150 - 300 °C

Melting point/freezing point: Not applicable

Boiling point: Not applicable

Flash point: > 200 °C

Evaporation rate: Not applicable

Flammability: Not available

Upper/lower flammability or explosive limits: Not available

Vapor pressure: Not applicable

Safety Data Sheet

Vapor density: Not applicable

Relative density: approx. 1.14 g/cm³

Water Solubility: Soluble in water

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available

Decomposition temperature: > 200 °C Decomposes on heating.

Viscosity: Not applicable

Section 10: Stability and reactivity

1. Reactivity

Stable at normal conditions.

2. Chemical stability

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

3. Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

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

4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge. Avoid extreme temperatures.

5. Incompatible materials

Strong oxidizing agents.

6. Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced. Flammable vapours.

Section 11: Toxicological information

1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation

Assessment of irritating effects:

May cause slight irritation to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation: May cause slight irritation to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

No applicable information available.

Germ cell mutagenicity

Assessment of mutagenicity:

No applicable information available.

Carcinogenicity

Assessment of carcinogenicity:

No applicable information available.

Safety Data Sheet

Reproductive toxicity

Assessment of reproduction toxicity:

No applicable information available.

Developmental toxicity

Assessment of teratogenicity:

No applicable information available.

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

Assessment of repeated dose toxicity:

No applicable information available.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

Section 12: Ecological information

1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Product is not expected to be readily biodegradable.

3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: Study technically not feasible.

Adsorption in soil: Due to the product characteristics the test is impossible.

5. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

6. Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

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:

- 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.

Safety Data Sheet

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: Aug 05, 2022

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.