



Safety Data Sheet

Inslogic PLA Silk

According to GHS

Version: 1.0

Issue date: 09.24.2024

Prepared by: GB/T 16483 and GB/T 17951

SDS record number: SLFDM2105023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product form: 3D printing filament

Product Name: PLA Silk Filament

Product code: -

1.2 Relevant identified uses of the substance or mixture and uses advised against

For use in 3D printers at recommended temperatures.

1.3 Details of the supplier of the safety data sheet

Inslogic International Holding Co., Ltd.

3, 13/F, Grand City Plaza

1-17 Sai Lau Kok Road

Tsuen Wan, New Territories

Hong Kong

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classified.

2.2 GHS Label elements

Not Applicable.

2.3 Other hazards

Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.1 Substance/Mixture:

Chemical Name	CAS No	EC No.	Weight %
Additives	-	-	20
Poly (DL- lactide)	51063-13-9	-	30
Poly lactide resin	9051-89-2	618-575-7	50

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Following skin contact:

Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

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Following eye contact:

If irritation continues, seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Following ingestion:

Immediately give a glass of water.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed Specific treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.

Unsuitable extinguishing media: None known.

5.2 Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

Fire/explosive hazards:

Combustible solid which burns but propagates flame with difficulty. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

Fire incompatibility:

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc.as ignition may result.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Sweep up to prevent slipping hazard.

For emergency responders

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Clean up promptly with scoop or vacuum. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment.

Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

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7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.
Keep containers securely sealed.
Avoid contact with incompatible materials.
Polyethylene or polypropylene container.
Check all containers are clearly labelled and free from leaks.
Packing as recommended by manufacturer.
Avoid contamination of water, foodstuffs, feed or seed.
Avoid reaction with oxidising agents.

7.3 Specific end uses

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

8.2 Exposure controls

Appropriate engineering controls

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Hand protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage.

Skin and body protection

Impervious clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

Avoid release into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Solid
Colour	Black
Odour	Odorlessness
Odour threshold	Not applicable
pH	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable

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Flash point	Not determined
Relative evaporation rate	Not applicable
Flammability	Low
Explosion limits	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Vapor pressure	Not applicable
Relative density	1.25 g/cm3
Relative vapor density at 20C	Not determined
Solubility	Insoluble in water
Log pow	Not determined
Log kow	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable

9.2 Other information

No other information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable when stored as recommended.

10.2 Chemical stability

Unstable in the presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

10.5 Incompatible materials

Strong acids, strong bases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	None known
Skin corrosion/irritation	Contact with molten material may cause thermal burns
Serious eye damage/irritation	Contact with dust/fumes may cause irritation
Respiratory or skin sensitisation	None known
Germ cell mutagenicity	Not determined
Carcinogenicity	Not determined
Reproductive toxicity	Not classified

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STOT-single exposure	Not determined
STOT-repeated exposure	Not determined

SECTION 12: Ecological information

12.1 Toxicity

Not determined.

12.2 Persistence and degradability

Not determined.

12.3 Bioaccumulative potential

Not determined.

12.4 Mobility in soil

Not determined.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

No other information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. In accordance with local and national regulations. Do not contaminate ponds, waterways, or ditches with chemical or used container. For recycling, contact local waste disposal centers. A Hierarchy of Controls seems to be common - the user should investigate: reduction, reuse, recycling, disposal (if all else fails).

SECTION 14: Transport information

ADR: Not regulated as dangerous goods.

RID: Not regulated as dangerous goods.

ADN: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1 US federal regulations.

SARA 313: None.

15.2 International regulations

Components are in compliance and/or are listed. The product needs to follow local regulations.

SECTION 16: Other information

List of abbreviations: Not available.

References: Not available.

Disclaimer:

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