



SAFETY DATA SHEET

Phrozen-PLA Filament

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SECTION 1 : IDENTIFICATION

1.1 Product identifier

Product name Phrozen-PLA Filament

Recommended use and restrictions on use

Recommended use For use in Phrozen 3D-printers

Restrictions on use Do not use in the situation that easily generate aerosol, steam.

1.2 Name, address and phone of manufacturer , importers or supplier

Manufacturer Phrozen Tech Co., Ltd.287 Niupu Rd, Xiangshan Dist,
Hsinchu City 30091, TAIWAN

Phone +886-3621-0505

Emergency phone / Fax +886-3621-0505 / +886-3539-6591

SECTION 2 : HAZARD IDENTIFICATION

2.1 Hazard classification None

2.2 Signal statement None

2.3 Pictograms None

2.4 Signal word None

2.5 Hazard statements

May cause skin allergy.

Harmful if ingested.

2.6 Precautionary statements

Avoid inhaling dust or fumes.

If contact with eyes, rinse with water and seek medical advice.

In case of skin contact, wash with soap and water. If molten PHA contacts the skin, rinse with cold water immediately and seek medical attention.

In case of accidental ingestion, rinse mouth with water. Do not induce vomiting without medical advice.

2.7 Other hazard None

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SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not relevant (mixture)

3.2. Mixtures

Components	CAS number	Weight %	Classification acc. to GHS
Polylactic Acid	26023-30-3	>70%	-
Butane-1,4-diol, Dimethyl benzene-1,4-dicarboxylate, Hexanedioic Acid	55231-08-8	<30%	-

SECTION 4 : FIRST AID MEASURES

4.1. First-aid advice and recommendations for different routes of exposure

4.1.1 Inhalation

No special measures required.

4.1.2 Skin Contact

Wash with soap and water. For molten PHA, rinse immediately with cold water and seek medical advice.

4.1.3 Eyes Contact

Rinse thoroughly with water and seek medical attention if discomfort persists.

4.1.4 Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel.

4.2. Most important symptoms and hazardous effects

None

4.3. Protection of First-aid personnel

None

4.4. Note for physician

None

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SECTION 5 : FIRE-FIGHTING MEASURES

5.1 Applicable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

5.2 Specific hazards confronted during fire fighting

May release harmful gases like carbon monoxide and nitrogen oxides during combustion.

5.3 Specific fire-fighting procedure

None

5.4 Specific protective equipments for fire-fighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Wear a respirator, goggles, rubber gloves, and boots.

6.2. Environmental precautions

None

6.3. Cleaning methods

Store in a suitable container in a well-ventilated area.

SECTION 7 : SAFETY HANDLING AND STORAGE

7.1. Handling

Use in well-ventilated areas. Avoid eating, drinking, or smoking in the work area.

7.2. Storage

Store in a cool, dry place away from direct sunlight and moisture.

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SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Engineering controls

Ensure good ventilation, especially in areas where molten material is present (e.g., near nozzles, molds, or vents).

8.2. Control Parameters

None

8.3. Personal protective equipment

8.3.1 Respiratory protection

Wear respiratory protection if ventilation is insufficient.

8.3.2 Hand protection

Wear insulated gloves to avoid burns when handling molten material.

8.3.3 Eye protection

No specific eye protection is mentioned.

8.3.4 Skin protection

Wear protective clothing to prevent burns when handling molten material.

8.4. Hygiene measures

Do not eat, drink and smoke in work areas.

Wash thoroughly after handling.

Contaminated clothing should be cleaned before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Apperance and color	White viscous liquid	Odor	Typical acrylate
Odor threshold	N/A	Melting point	160-180°C
pH value	7	Boiling point	104.5 °C at 2.05 hPa
Flammable	N/A	Flash point	>110°C
Decomposition Temp	N/A	Testing method	Closed cup



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Natural Temp	N/A	Explosive limit	N/A
Vapor pressure	N/A	Vapor density	N/A
Density	1.23 g /cm ³ at 20 °C	Solubility	Insoluble in water
Octanol/water distribution coefficient (log Kow)	N/A	Evaporaion rate	N/A

SECTION 10: STABILITY AND REACTIVITY

10.1. Stability

Stable under normal condition.

10.2. Possible hazardous reation under specific conditions

None

10.3. Must avoid condition

Avoid high temperatures, open flames, moisture, and unsuitable environments. There is a risk of dust explosion under certain conditions.

10.4. Must avoid substances

Strong acids and strong oxidizing agents.

10.5. Hazardous decomposed product

Carbon dioxide and carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Test data are not available for the complete mixture.

11.1. Exposure paths

None

11.2. Symptoms

None



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11.3. Acute toxicity

None

11.4. Chronic toxicity

None

11.5. Reproductive and/or Developmental Effects

None

SECTION 12: ECOLOGICAL INFORMATION

The product has not been tested.

12.1. Ecological toxicity

None

12.2. Persistence and degradability

None

12.3. Bio-accumulative potential

None

12.4. Mobility in soil

None

12.5. Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste disposal methods

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

13.2. Sewage disposal method

Do not empty into drains. Avoid release to the environment.

13.3. Contaminated Packaging disposal method

Handle contaminated packages in the same way as the substance itself.

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SECTION 14: TRANSPORT INFORMATION

Land transport USDOT	Not classified as dangerous goods under transport regulations.
Sea transport IMDG	Not classified as dangerous goods under transport regulations.
Air transport IATA/ICAO	Not classified as dangerous goods under transport regulations.
Further information	N/A
Other requirements	N/A

SECTION 15: REGULATORY INFORMATION

15.1. List of substances subject to authorisation (REACH, Annex XIV) / SVHC- candidate list

None of the ingredients are listed

15.2. Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed

15.3. Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed

15.4. Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.5. National inventories

Country	Inventory	Status
AU	AU AICS	not all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not all ingredients are listed



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EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	not all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
DSL	Domestic Substances List (DSL)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
EU	EC Substance Inventory (EINECS, ELINCS, NLP)
EU	REACH registered substances
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
NZIoC	New Zealand Inventory of Chemicals
CICR	Chemical Inventory and Control Regulation
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

SECTION 16: OTHER INFORMATION

Reference	US OSHA HCS 29 CFR 1910.1200 / ECHA / OECD
Table formulation unit	Name : Phrozen Tech. Co. Ltd
	Address / Phone : 287 Niupu Rd, Xiangshan Dist, Hsinchu City 30091, TAIWAN(R.O.C) /+ 886-3-6210505
Table formulator	Job title : Occupational Safety & Health manager Name : Chun-Yao, Kuo
Table formulation Date	2024.09.25
Remarks	In the above described information, the symbol "N/A" means no relevant information currently.



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To the best of our knowledge the information contained herein is accurate. However, Phrozen Tech. Co. Ltd. makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Phrozen Tech. Co. Ltd. assumes no responsibility for injury from the use of the product described herein.

END OF SAFETY DATASHEET