

SECTION 1 : IDENTIFICATION**1.1 Product identifier**

Product name Light Curable Putty

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(R.O.C)

Phone +886-3621-0505

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

SECTION 2 : HAZARD IDENTIFICATION**2.1 Hazard classification**

Serious eye damage/eye irritation Category 2

2.2 Signal statement

Exclamation mark

**2.3 Pictograms**

2.4 Signal word Warning

2.5 Hazard statements

Causes serious eye irritation

2.6 Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

2.7 Other hazard

None

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS number	Weight %	Classification acc. to GHS
Polyester acrylate	73378-73-1	100%	Eye Dam. 2 / H319

SECTION 4 : FIRST AID MEASURES**4.1. First-aid advice and recommendations for different routes of exposure****4.1.1 Inhalation**

Remove to fresh air. Seek immediate medical attention/advice.

4.1.2 Skin Contact

May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

4.1.3 Eyes Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

4.1.4 Ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

4.2. Most important symptoms and hazardous effects

May cause allergic skin reaction. May cause redness and tearing of the eyes.

4.3. Protection of First-aid personnel

None

4.4. Note for physician

May cause sensitization in susceptible persons. Treat symptomatically.

**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 be ignited by heat, sparks or flames. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3 Specific fire-fighting procedure

None

5.4 Specific protective equipments for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Remove all sources of ignition. Ensure adequate ventilation.

6.2. Environmental precautions

Prevent product from entering drains.

6.3. Cleaning methods

Prevent further leakage or spillage if safe to do so.

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7 : SAFETY HANDLING AND STORAGE**7.1. Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

**7.2. Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of the reach of children. Store locked up.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Engineering controls**

Provide adequate ventilation to the areas where the product is stored and/or handled.

8.2. Control Parameters

None

8.3. Personal protective equipment**8.3.1 Respiratory protection**

Suitable respiratory protection for higher concentrations or long-term effect
Gas filter EN141 Type A for gases/vapors of organic compounds
(boiling point >65 °C).

8.3.2 Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374.
For example : Nitrile rubber (nitrile)
Material thickness : $\geq 0.5\text{mm}$

8.3.3 Eye protection

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

8.3.4 Skin protection

Long sleeved, impervious protective clothing and boots.

8.4. Hygiene measures

Wear suitable gloves and eye/face protection.
Do not eat, drink or smoke when using this product.
Avoid contact with skin, eyes or clothing.
Remove and wash contaminated clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Apperance and color	None clear viscous liquid	Odor	Typical acrylate
Odor threshold	N/A	Melting point	<0°C

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pH value	6.8-7.2	Boiling point	>200°C
Flammable	N/A	Flash point	>110°C
Decomposition Temp	N/A	Testing method	close up
Natural Temp	N/A	Explosive limit	N/A
Vapor pressure	< 0.01 mm Hg at 20 °C	Vapor density	N/A
Density	N/A	Solubility	N/A
Octanol/water distribution coefficient (log Kow)	N/A	Evaporation rate	N/A

SECTION 10: STABILITY AND REACTIVITY

10.1. Stability

Stable under normal condition.

10.2. Possible hazardous reaction under specific conditions

None

10.3. Must avoid condition

UV-radiation/sunlight.

10.4. Must avoid substances

Oxidisers, Reducing agents

10.5. Hazardous decomposed product

None

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

11.3. Acute toxicity

None

11.4. Chronic toxicity

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.



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

Additional information for IMDG CODE 3.4.1

According to the general provisions 2.10.2.7, if the volume of the product is less than 5L or the mass is less than 5kg when transported, and the packaging complies with the general provisions in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8, the product is not regarded as dangerous goods transportation.

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	all ingredients are listed

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CA	DSL	all ingredients are listed
CA	NDSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
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	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	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

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**SECTION 16: OTHER INFORMATION**

Reference	US OSHA HCS 29 CFR 1910.1200, ECHA
Table formulation unit	Name : Phrozen Tech. Co. Ltd
	Address / Phone : 287 Niupu Rd, Xiangshan Dist, Hsinchu City 30091, TAIWAN(R.O.C) /+ 886-3-621-0505
Table formulator	Job title : Occupational Safety & Health manager Name : Chun-Yao, Kuo
Table formulation Date	2023.11.14
Remarks	In the above described information, the symbol "N/A" means no relevant information currently.

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