

Material Safety Data Sheet Phrozen ABS like Resin- Creamy White

Sec. 1: Product and Company Identification

Product Name	Phrozen ABS like Resin- Creamy White
Synonyms	-
Chemical Name	Mixture of Acrylate, Photoinitiator, and Pigment
Туре	Liquid
Application	UV/Visible Light curable resin for 3D printing
Manufactuers	普羅森科技股份有限公司 Phrozen Tech Co. Ltd. +8863-5302273 # 35 No.2, Ln. 496, Niupu S. Rd., Xiangshan Dist., Hsinchu City 300, Taiwan (R.O.C.) <u>phrozen.dlp@gmail.com</u>
Emergency Phone	+886916781577 Local police number



1. IDENTIFICCOMPOSITION/INFORMATION ON INGREDIENTS

?. (methyl-1,2-ethanediyl)		
Bis 【(oxy(methyl-2,1-	15~20%	42978-66-5/256-032-2/607-249-00-X
Ethanediy diacrylate		
Haxamethylene diacrylate	20~35%	13048-33-4/235-921-9/607-109-00-8
Acrylate Oligomers	30~40%	-
Titanium dioxide	0.5~2%	13463-67-7
Phenyl bis(2,4,6-trimethyl benzoyl)phosphine oxide	1~4%	162881-26-7 / - /-
Additive	0~2%	
For full text of the R-Phrase(s) mentioned in t	his section, Please refer to Section	16.

3. HAZARDS IDENTIFICATION

Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

Keep at rest.
Move to fresh air.
Consult a physician.
Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water and seek medical advice
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult a physician.
Do not induce vomiting.
Keep at rest.
Consult a physician.

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media :	Use dry chemical, carbon dioxide, water spray or alcohol resistant foam.
Extinguishing media which must not	High volume water jet
be used for safety reason	
Specific hazards	Prevent product from entering drains.
	Possible decomposition products are: COx, NOx
Special protective equipment for	Wear self-contained breathing apparatus and protective suit.
firefighters	
6. ACCIDENTAL RELEASE MEASU	JRES
Personal Precautions	See also Section 8.
	Ensure adequate ventilation.
	Wear personal protective equipment.
	Remove all sources of ignition.
	Avoid contact with skin and eyes.
	Do not breathe vapors or spray mist.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
	Shovel into suitable container for disposal.
	After cleaning, flush away traces with water.
7. HANDLING AND STORAGE	
Storage	Keep tightly closed in a dry, cool and well-ventilated place. (@25°C)
C C	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to
	avoid exothermic reactions.
	Keep away from sources of ignition - No smoking.
Handling	Handle in accordance with good industrial hygiene and safety practice.
-	Avoid contact with skin, eyes and clothing.
	Do not breathe vapors or spray mist.
	Use only in well-ventilated areas.
Specific use(s)	No information available

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Personal protective equipment Respiratory protection Hand protection

Eye protection Hygiene measures In case of insufficient ventilation, wear suitable respiratory equipment. (filter type A) Protective gloves (EN 374) Nitrile rubber Goggles (EN 166) Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information	
Appearance	Liquid
Color	Refer to product label
Color	Refer to product label
odour	Characteristic
Important health, safety and environmental information	I Contraction of the second
рН	Not applicable
Boiling point/boiling range	No data available
Melting point/melting range	No data available
Flash point	> 110 °C
Evaporation rate	< 1
Vapour density	> 1
Autoignition temperature	No data available
Oxidising properties	Not applicable
Vapour pressure	No data available
Relative density	1.11
Water solubility	Insoluble
Explosion limits	No data available
Viscosity	~70 cp (@25°C)
Partition coefficient (n-octanol/water)	No data available

10. STABILITY AND REACTIVITY

StabilityStable at normal conditionsConditions to avoidKeep away from heat ,sources of ignitionMaterials to avoidIncompatible with strong acids and oxidising agentsHazardous decomposition productsCOx, VOC

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Acrylate Monomers: > 5000 mg/kg
	Photoinitiators: > 2000 mg/kg
Inhalation	Irritating to respiratory system.
Skin contact	May cause sensitisation by skin contact.
	Repeated contact may cause allergic reactions in very susceptible persons.
	Irritating to skin.
Eye contact	Irritating to eyes.
Ingestion	Harmful if swallowed.

P3 Total 5 Pages

Total 5 Pages

May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION

Bioaccumulation	No data is available on the product itself.
Ecotoxicity effects	(1-methyl-1,2-ethanediyl)bis([oxy(methyl-2,1-ethanediyl)] diacrylate : LC50/96h/fish : 4,5mg/l - 10mg/l (Leuciscus idus)
	(1-methyl-1,2-ethanediyl)bis([oxy(methyl-2,1-ethanediyl)] diacrylate : EC50/48h/ daphnia : 88,7mg/l (Daphnia magna)
	(1-methyl-1,2-ethanediyl)bis([oxy(methyl-2,1-ethanediyl)] diacrylate : EC50/72h/ algae : >28mg/l (Scenedesmus subspicatus)
Ecotoxicity effects	Photoinitiators: LC50/96h >0.09-1mg/l
	Photoinitiators: EC50/48h/Daphnia >1.175-10mg/l
	Photoinitiators: IC50/72h/Algae >0.26-1mg/l
Mobility	Insoluble
Persistence and degradability	No data is available on the product itself.

13. DISPOSAL CONSIDERATION

Waste from residues

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

Class

ADR/RID	
UN-No	Not applicable
Proper shipping name	Not applicable
Class	Not applicable
Packing group	Not applicable
IMDG	
UN-No	Not applicable
Class	Not applicable
Packing group	Not applicable
Proper shipping name	Not applicable
ICAO/IATA	
It is not subject to current	regulations for transportation of hazardous goods. (IMDG)
UN-No	Not applicable
Class	Not applicable
Packing group	Not applicable

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Proper shipping name

Not applicable

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15. REGULATORY INFORMAT	ION
Labeling	The preparation is classified as dangerous in accordance with Directive 1999/45/EC.
Symbol(s)	Xi - Irritant
R-phrase(s)	R22 – Harmful if swallowed.
	R36/38 – Irritating to eyes and skin.
	R36/37/38 – Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

16. OTHER INFORMATION

S-phrase(s)

7. Text of R phrases mentioned in	R22 – Harmful if swallowed.
Section 2	R36/38 – Irritating to eyes and skin.
	R36/37/38 – Irritating to eyes, respiratory system and skin.
	R43 – May cause sensitization by skin contact.
Sources of key data used to compile	European Chemicals Bureau
the data sheet	

S37 - Wear suitable gloves.

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC, 1999/45/EC, 67/548/EC.

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