

Phrozen Aqua Blue

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Name	Phrozen Aqua Blue	
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. +8863-5400076 # 14 3F., No. 287, Niupu Rd., HSIN CHU CITY 30091, Taiwan sales@phrozen3d.com	
Emergency Phone	+886916781577 Local police number	

2.Hazards Identification

Chemical Hazard Classification: Serious eye damage/eye irritation category 2B, Skin sensitizer category 1.

Symbol Contents:



Symbol: Exclamation mark.

Signal word: Warning.

Hazard Statement: Causes eye irritation, May cause allergic skin reaction.

Precautionary Statement: Store in well-ventilated place. Keep away from ignition sources—No smoking. Do not wear contact lenses. Chemical safety goggles are recommended. Avoid eyes and skin contact. Wear suitable protective equipment. Call a doctor or physician if you feel unwell.

Other Effects: -----

3. Ingredients

Hazardous ingredient name	Concentration WT%	CAS No.
Prepolymer	64.95	139352-65-1
Ethoxylated TrimethylolpropaneTriacrylate	16	28961-43-5
Tripropylene glycol diacrylate	16	42978-66-5
Diphenyl(2,4,6-trimethylbenzoyl)-	1.5	75980-60-8
phosphine oxide		
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide	1.5	162881-26-7
Pigment	0.05	1328-53-6

4. First Aid Measures

The First-aid Measures for Different Exposure Routes:

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Immediately wash with soap and water. Wash contaminated clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Flush with lukewarm water at least 15 minutes. Seek medical advice.

Ingestion: Clean with water and drink plenty of water. Induce vomiting. Keep individual calm. Obtain medical attention.

The Most Important Symptoms and Hazardous Effects: Nausea and irritating.

The Protection of First-aides: Wear impervious gloves. Avoid contacting the pollutant.

Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire-Fighting Measures

Suitable Fire Extinguishing Media: Carbon dioxide, foam or dry chemical.

Specific Hazards May Be Encountered During Fire-fighting: May cause carbon monoxide, acetone, aldehyde, ammonia and some organism materials.

Specific Fire-fighting Methods: Move to the safe area.

Special Equipment for The Protection of Firefighters: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals

6.Accidental Release Measures

Personal Precautions: Wear suitable protective equipment. Clean the floor to prevent from slipping and falling.

Environmental Precautions: Extinguish the flame. Do not flush into surface water or sanitary sewer system.

Advise water authority if spillage has entered water course or drainage system.

Methods for Cleaning Up: Spontaneous hazardous polymerization may occur. Eliminate sources of ignition. Use eye and skin protection. Maintain adequate ventilation. Soak up with inert absorbent. Store in a half filled, closed container until disposal.

7. Handling and Storage

Handling: Wear suitable protective equipment.

Avoid leak.

Keep away from light and heat.

Avoid eye and skin contact.

Keep the place ventilated.

Storage: Keep away from flame and sunlight

Keep in a cool, well ventilated area away from heat, sparks and open flame

8.Exposure Controls/Personal Protection

Engineering Controls: If handling results in aerosol or vapor generation, local exhaust ventilation is recommended. Do not smoke and eat in the work area. Keep the workplace clean.

Control Parameters:

0	3	 •	Biological Standards (BEIs)
Control a aramete			

Personal Protection:

Respiratory: Respiratory equipment and gas mask.

Hand protection: Use protective gloves.

Eyes: Do not wear contact lenses. Chemical safety goggles are recommended.

Skin: Avoid skin contact. Use impermeable gloves and protective clothing as necessary to prevent skin contact. Wash contaminated clothing before reuse.

Other Hygienic Practices: Use good personal hygiene practices. Wash hands and face before eating and drinking. Exercise more to keep healthy. Ingest food which contains vitamins and minerals. Do physical examination regularly.

9. Physical and Chemical Properties

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Physical State(Appearance, Color): Green liquid	Odor: Mild
Odor Threshold:	Melting Point:C
pH Value :	Boiling Point : > 250°C
Flammable (Solid, Gas):	Flash Point : > 113 ℃
Decomposition Temp.:C	Test Method:
Autoignition Temperature:C	Explosion Limits:
	Upper(UEL):; Lower(LEL):
Vapor Pressure : <mmhg (@20⋅c)<="" td=""><td>Vapor Density: (Air=1)</td></mmhg>	Vapor Density: (Air=1)
Density:g/cm³ (Water=1)	Solubility in Water:
Octanol-water Partition Coefficient, Kow:	Evaporation Rate:

10.Stability and Reactivity

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Stability	
Hazardous Polymerization	
. ,	Avoid flammable, ignitable, heat source, spark, flame, strong oxidant, free radical initiator,
	peroxide and basic materials.
Hazardous Decomposition	Carbon monoxide, acetone, aldehyde, ammonia.
Products	

11. Toxicological Information

Acute Toxicity: Inhalation: May irritate to nose and throat.

Skin: Irritating to skin if contact.

Eye: The vapor may Irritate to eye.

Ingestion: May cause headache, nausea, dizziness and tiredness.

Ingredients	Concentration	LD ₅₀ (Lethal Dose 50)	LC ₅₀ (Lethal Concentration
	%		50)
Prepolymer	64.95		
Ethoxylated TrimethylolpropaneTriacrylate	16		
Tripropylene glycol diacrylate	16	200 mg/kg(Rat, Oral)	
		2 gm/kg(Rabbit, Skin)	
Diphenyl(2,4,6-trimethylbenzoyl)-	1.5		
phosphine oxide			
Phenyl bis(2,4,6-trimethylbenzoyl)- phosphine	1.5	2000 mg/kg(Rat,	
oxide		Oral)	
		2000 mg/kg(Rat,	
		Skin)	
Pigment	0.05		
and Effects: May across imitation if also contact for a long time			

Local Effects: May cause irritating if skin contact for a long time.

Sensitization: -----

Chronic Toxicity or Long Term Toxicity: ------

Specific Effects: -----

12. Ecological Information

Ecotoxicity:
Persistence / Degradability:
Bioaccumulation:
Mobility:
Other Information: Avoid the products enter into drainage or soli surface. After the product curing, it can be disposed by

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13. Disposal Considerations

Recommended methods of Disposal: Recover or recycle if possible. Otherwise, incineration following local regulations.

14.Transport Information

United Nation Number (UN No.): ------

Proper Shipping Name: -----

Class : -----

Packing Group: -----

IMarine pollutant (Yes/No): No

Special delivery methods and precautions: ------

ATA-DGR: Not Restricted AS DGR 58th edition

15. Regulatory Information

Traffic Regulation

Occupational Safety and Health Act

Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials

Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace

Management Regulations for the Import, Export, Transit and Transshipment of Waste

Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Procedures

16. Other Information

Reference documents

MSDS prepared by

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Date: 2020/04/15

Remark:" – " = not available ; " / " = not applicable

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