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SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name Agua - Blue

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

Skin corrosion/irritation Category 2, Serious eye damage/eye irritation Category 2,

Skin sensitization Category 1, Reproductive toxicity Category 1B,

Specific target organ toxicity -single exposure(respiratory tract irritation)Category 3

Hazardous to the aquatic environment-chronic hazard Category 3

2.2. Signal statement

Exclamation mark Health hazard



2.3. Pictograms

2.4. Signal word Danger

2.5. Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause respiratory irritation

May damage fertility. May damage the unborn child

Harmful to aquatic life with long lasting effects



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2.6. Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

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.

Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point.

2.7. Other hazard

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS number	Weight %	Classification acc. to GHS
2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylen ebis(4-isocyanatocyclohexane) and alpha.,.alpha.',.alpha.''-1,2,3	73324-00-2	50-75%	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335
Propylidynetrimethanol, ethoxylat ed, esters with acrylic acid	28961-43-5	10- 25%	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412
(1-methyl-1,2- ethanediyl)bis[oxy (methyl-2,1- ethanediyl)] diacrylate	42978-66-5	10- 25%	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT SE 3 / H335 Aquatic Chronic 2 / H411
Additives1	Trade Secret	5-10%	Repr. 1B / H360FD







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Additives2	Trade Secret	<1%	-
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SECTION 4: FIRST AID MEASURES

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

4.1.1. Inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

4.1.2. Skin Contact

Wash with plenty of soap and water.

4.1.3. Eyes Contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

4.1.4. Ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2. Most important symptoms and hazardous effecects

None

4.3. Protection of First-aid personnel

None

4.4. Note for physician

None

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

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3. Specific fire-fighting procedure

None



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5.4. Specific protecttive equipments for fire-fighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precations

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2. Environmental precations

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3. Cleaning methods

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust,kieselgur(diat omite), sand, universal binder. Covering of drains.

Place in appropriate containers for disposal. Ventilate affected area.

SECTION 7: SAFETY HANDLING AND STORAGE

7.1. Handling

Use local and general ventilation. Use only in well-ventilated areas.

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Wash hands after use.

Never keep food or drink in the vicinity of chemicals.

Never place chemicals in containers that are normally used for food or drink.

7.2. Storage

Storage at the area of cool, dry.

Keep away from heat ,direct sunlight, rainy and rapid temperature .

Storage temperature between 15°C/59°C to 35°C/95°F.

Close the lid tightly when not in use.

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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

In case of inadequate ventilation wear respiratory protection.

8.3.2 Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374.

For example: Nitrile

Material thickness : ≥ 0.35mm

Breakthrough times of the glove material: > 60 minutes (permeation: level 3)

8.3.3 Eye protection

Use safety goggles.

8.3.4 Skin protection

Use clothing that provides complete protection to the skin.

8.4. Hygiene measures

Do not eat, drink and smoke in work areas.

Wash thoroughly after handling.

Keep clean of operation area.

Take off polluted clothing as soon as possible after work. The clothing can be re-wear only after washed in clean or discard.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Apperance and color	Blue viscous liquid	Odor	Typical acrylate
Odor threshold	N/A	Melting point	N/A
pH value	6 - 8	Boiling point	>391 °C at 1,013 hPa





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Flammable	N/A	Flash point	N/A
Decomposition Temp	N/A	Testing method	N/A
Natural Temp	214℃	Explosive limit	N/A
Vapor pressure	0.003 Pa at 20 °C	Vapor density	N/A
Density	1.1 g /cm³ at 25 °C	Solubility	N/A
Octanol/water distrib ution 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

UV-radiation/sunlight.

10.4. Must avoid substances

Oxidisers, Reducing agents

10.5. Hazardous decomposted product

None

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Test data are not available for the complete mixture.

11.1. Exposure paths

None

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11.2. Symptoms

None

11.3. Acute toxicity

Components	route	Species	End point	Value
Diphenyl(2,4,6-trimethyl	Oral	Rat	LD50	> 5,000 mg/kg
benzoyl)	Dermal	Rat	LD50	> 2,000 mg/kg
phosphine oxide				

11.4. Chronic toxicity

None

11.5. Reproductive and/or Developmental Effects

Components	route	Species	End point	Value
Diphenyl(2,4,6-trim	oral	Rat	NOAEL	200 mg/kg/day
ethyl benzoyl)		premating into lactati		
phosphine oxide			on for female	

SECTION 12: ECOLOGICAL INFORMATION

The product has not been tested. The statement has been derived from the properties of the individual components.

12.1. Ecological toxicity

Aquatic toxicity (chronic) of components of the mixture					
Components	End point	Value	Species	Exposure time	
Diphenyl(2,4,6-trim	EC50	>1,000 mg/l	microorganisms	180 min	
ethyl benzoyl)					
phosphine oxide					

12.2. Per sistence and degradability

Degradability of components of the mixture					
Components	Process	Degradation rate	Time	Source	
Propylidynetri-	carbon dioxide	58 -61%	28d	ECHA	
methanol, eth-	generation				
oxylated, es-					
ters with acryl-					
ic acid					
(1-methyl-1,2-	carbon dioxide	48%	28d	ECHA	





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ethanediyl)bis[o xy(methyl-2,1- ethanediyl)] diacrylate	generation			
Diphenyl(2,4,6-trim ethyl benzoyl) phosphine oxide	oxygen deple-tion	0 -10%	28 d	ECHA

12.3. Bio-accumulative potential

Components	BCF	Log kow	BOD/COD
Propylidynetrimethanol,	-	2.89(pHvalue : 8.1, 23°C)	-
eth-oxylated, esters with			
acrylic acid			
(1-methyl-1,2-ethanedi	-	2.5-2.7(pHvalue : 6.7, 23°C)	-
yl)bis[oxy(methyl-2,1			
-eth-anediyl)] diacrylate			
Diphenyl(2,4,6-trimethyl	47 – 55	3.1 (pH value: 6.4, 23 °C)	-
benzoyl)			
phosphine oxide			

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

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.

SAFETY DATA SHEET

Aqua-Blue



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15.5. National inventories

Country	Inventory	Status
AU	AU AICS	all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not 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 / REACH
Table formulation	Name: Phrozen Tech. Co. Ltd
unit	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	2023.11.09
Date	
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