

## SAFETY DATA SHEET

Phrozen Wash Resin Cleaner

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### SECTION 1 : IDENTIFICATION

#### 1.1 Product identifier

**Product name** Phrozen Wash Resin Cleaner

#### 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 2A),Skin sensitizer (Category 1)

#### 2.2 Signal statement

Exclamation mark



#### 2.3 Pictograms

**2.4 Signal word** Warning

#### 2.5 Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

#### 2.6 Precautionary statements

Wear protective gloves, Wash thoroughly after handling.

Wear eye/face protection

IF ON SKIN: Wash with plenty of soap and water.

Take of contaminated clothing and wash before re-use.

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If skin irritation occurs, seek medical advice/attention.  
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.  
Wash hands after handling.

#### 2.7 Other hazard

None

### SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS number	Weight %	Classification acc. to GHS
Diethylene glycol monobutyl ether	112-34-5	20~50%	Acute Tox. 5 / H303 Skin Irrit. 2 / H316 Eye Dam. 2 / H319
Naxonate	1300-72-7	0~10%	Eye Dam. 2 / H319
Water	7732-18-5	20~80%	-

### SECTION 4 : FIRST AID MEASURES

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

##### 4.1.1 Inhalation

Keep at rest. Move to fresh air. Consult a physician.

##### 4.1.2 Skin Contact

Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water and seek medical advice

##### 4.1.3 Eyes Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

##### 4.1.4 Ingestion

Do not induce vomiting. Keep at rest. Consult a physician.

#### 4.2. Most important symptoms and hazardous effects

None

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### 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 (CO<sub>2</sub>)

### 5.2 Specific hazards confronted during fire fighting

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Specific fire-fighting procedure

None

### 5.4 Specific protective equipments for fire-fighters

For fires in enclosed areas, wear self-contained breathing apparatus and protective suit.

Do not inhale combustion gases.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions

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.

### 6.2. Environmental precautions

Do not flush into surface water.

### 6.3. Cleaning methods

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.

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### SECTION 7 : SAFETY HANDLING AND STORAGE

#### 7.1. Handling

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with eyes. Avoid prolonged repeated skin contact.

Use in well-ventilated area away from all ignition sources.

Switch off all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work.

Do not smoke; do not weld. Do not empty waste into sanitary drains.

Take measures to prevent the build up of electrostatic charge.

#### 7.2. Storage

Keep tightly closed in a dry, cool and well-ventilated place. (e.g. 25°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.

### 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

Use Chemical Resistant Gloves

##### 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

Ensure adequate ventilation.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Apperance and color</b>	Clear viscous liquid	<b>Odor</b>	Typical acrylate
<b>Odor threshold</b>	N/A	<b>Melting point</b>	N/A
<b>pH value</b>	N/A	<b>Boiling point</b>	100 °C
<b>Flammable</b>	N/A	<b>Flash point</b>	>93°C
<b>Decomposition Temp</b>	N/A	<b>Testing method</b>	N/A
<b>Natural Temp</b>	240°C	<b>Explosive limit</b>	N/A
<b>Vapor pressure</b>	>1	<b>Vapor density</b>	N/A
<b>Density</b>	1.0 g /cm <sup>3</sup>	<b>Solubility</b>	N/A
<b>Octanol/water distribution coefficient (log Kow)</b>	N/A	<b>Evaporaion rate</b>	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 decomposed product

None

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## 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

Components	route	Species	End point	Value
Diethylene glycol monobutyl ether	Oral	Rat	LD50	2410 mg/kg
	Dermal	Rabbit	LD50	2,700 mg/kg
Naxonate	Ingestion	Rabbit	LD50	>7000 mg/kg
	Dermal	Rabbit	LD50	>2000 mg/kg
	Oral	Rat	LC50	>6.41 mg/l/4h

## 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 (acute) of components of the mixture				
Components	End point	Value	Species	Exposure time
Diethylene glycol monobutyl ether	LC50	1300mg/l	fish	96 h
	EC50	>100mg/l	aquatic invertebrates	48 h
	ErC50	>100mg/l	algae	72h

#### 12.2. Persistence and degradability

Degradability of components of the mixture				
Components	Process	Degradation rate	Time	Source
Diethylene glycol monobutyl ether	aerobic	85%	28d	ECHA

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Naxonate	aerobic	83 - 85%	28d	ECHA
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### 12.3. Bio-accumulative potential

Components	BCF	Log kow	BOD/COD
Diethylene glycol monobutyl ether	3		

### 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

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

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<b>Other requirements</b>	N/A
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**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
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



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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

## SECTION 16: OTHER INFORMATION

<b>Reference</b>	US OSHA HCS 29 CFR 1910.1200 / ECHA / REACH
<b>Table formulation unit</b>	Name : Phrozen Tech. Co. Ltd Address / Phone : 287 Niupu Rd, Xiangshan Dist, Hsinchu City 30091, TAIWAN( R.O.C ) /+ 886-3-6210505
<b>Table formulator</b>	Job title : Occupational Safety & Health manager Name : Chun-Yao, Kuo
<b>Table formulation Date</b>	2023.11.14
<b>Remarks</b>	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**