



Material Safety Data Sheet

Phrozen Aqua Gray

	Till Ozoli Aqua Olay		
Product Name	Phrozen Aqua Gray		
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. +8865400076#14 3F., No. 287, Niupu Rd., HSIN CHU CITY 30091, Taiwan sales@phrozen3d.com		
Emergency Phone	+886916781577 Local police number		



Substance Name	% by weight	CAS No / EC No./ EC Index
1-methyl-1,2-ethanediyl)bis([oxy(methyl-2,1-ethanediyl)] diacrylate Hexamethylene diacrylate	15~20%	42978-66-5 / 256-032-2 / 607-249- 00-X
	20~30%	13048-33-4 / 235-921-9 / 607-109- 00-8
crylate Oligomers iitanium dioxide/Pigment	30~50% 0.1~2%	55818-57-0/ 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 this section, Please refer to Section 16.

2.HAZARDS IDENTIFICATION

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3.FIRST AID MEASURES

Inhalation Keep at rest.

Move to fresh air. Consult a physician.

Skin contact Take off contaminated clothing and shoes immediately.

Rinse immediately with plenty of water and seek medical advice

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult a physician.

Ingestion Do not induce vomiting.

Keep at rest. Consult a physician.

4.FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, carbon dioxide, water spray or alcohol resistant

foam.

Extinguishing media which must not be used for safety High volume water jet

reason

Specific hazards Prevent product from entering drains.

Possible decomposition products are: COx, NOx

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

5.ACCIDENTAL RELEASE MEASURES

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.

6.HANDLING AND STORAGE

Storage Keep tightly closed in a dry, cool and well-ventilated place. (@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.

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.

No information available

Specific use(s)

7.EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. (filter type A)

Hand protection Protective gloves (EN 374)

Nitrile rubber

Eye protection Goggles (EN 166)

Hygiene measures Ensure adequate ventilation.

Handle in accordance with good industrial hygiene and safety practice.

8.PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance Liquid

ColorRefer to product labelodourCharacteristic

Important health, safety and environmental information

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Not applicable Hа **Boiling point/boiling range** > 110 °C Melting point/melting range No data available Flash point > 110 °C

Evaporation rate < 1 Vapour density > 1

Autoignition temperature No data available Not applicable **Oxidising properties** Vapour pressure No data available

Relative density 1.11 Water solubility Insoluble No data available **Explosion limits**

Viscosity 80~100 cp (@25·C) Partition coefficient (n-octanol/water) No data available

9.STABILITY AND REACTIVITY

Stability Stable at normal conditions

Keep away from heat ,sources of ignition Conditions to avoid

Materials to avoid Incompatible with strong acids and oxidising agents

Hazardous decomposition products COx, VOC

10.TOXICOLOGICAL INFORMATION

Eye contact

Acrylate Monomers: > 5000 mg/kg **Acute toxicity**

Photoinitiators: > 2000 mg/kg Irritating to respiratory system.

Inhalation Skin contact May cause sensitisation by skin contact.

Repeated contact may cause allergic reactions in very susceptible persons.

Irritating to skin. Irritating to eyes. Harmful if swallowed.

Ingestion Chronic toxicity May cause sensitisation by skin contact.

11.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.

12.DISPOSAL CONSIDERATION

Waste from residues Dispose of in accordance with local regulations

13.TRANSPORT INFORMATION

Class

ADR/RID

UN-No Not applicable Not applicable Proper shipping name Not applicable Class Not applicable Packing group

IMDG

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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
Proper shipping name Not applicable

14.REGULATORY INFORMATION

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.

S37- Wear suitable gloves.

S-phrase(s)

15.OTHER INFORMATION

Text of R phrases mentioned in Section 2 R22– Harmful if swallowed.

R36/38 – Irritating to eyes and skin.

R37/38 – Irritating to eyes, respiratory system and skin.

R43 – May cause sensitization by skin contact.

pean Chemicals Bureau

Sources of key data used to compile the data sheet

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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