

# SAFETY DATA SHEET

According to 1907/2006/EC  
Revision: 1.1  
Issued: 2023.12.11  
Page: 1 / 5

Standard

## 1. IDENTIFICATION

<b>Product Names</b>	<b>Standard</b>
<b>Recommended use</b>	PHOTOPOLYMER RESIN, UV-curable
<b>Manufacturer details</b>	PANCOLOUR INK CO., LTD. No. 72-1, Wenming Rd., Guishan Dist., Taoyuan City 33382 , Taiwan Tel: +886-3-3270177 ; Fax: +886-3-3270180
<b>Emergency phone number</b>	Tel: +886-3-3270177, ext.110

## 2. HAZARD IDENTIFICATION

**Classification:** according to Directive 1999/45/EC



Xi; Irritant

R22 – Harmful if swallowed  
R36/38 - Irritating to eyes and skin.  
R43 - May cause sensitization by skin contact.  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**according to Regulation (EC) No 1272/2008**  
Skin corrosion/irritation (Category 2)  
Serious eye damage/eye irritation (Category 2A)  
Skin sensitizer (Category 1)  
Carcinogenicity, ( Category 2)  
STOT-Single exposure, ( Category 3)  
Chronic Aquatic hazard, ( Category 3)

**Labeling:**

**Hazard Symbols:**



**Signal Word:** WARNING

**Hazard Statement:** Cause skin irritation; Causes serious eye irritation; May cause allergic skin reaction

**Precautionary Statements:**

**Prevention**

Wear protective gloves, Wash thoroughly after handling.  
Wear eye/face protection

**Response**

IF ON SKIN: Wash with plenty of soap and water. Take of contaminated clothing and wash before re-use. 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.

**Disposal**

Dispose of contents/container in accordance with local and national regulations.

# SAFETY DATA SHEET

According to 1907/2006/EC  
Revision: 1.1  
Issued: 2023.12.11  
Page: 2 / 5

Standard

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Hazard Components	% by weight	CAS No	Symbol(s)	R-phrases
Glycerol, propoxylated, esters with acrylic acid	15~25%	52408-84-1	Xi	36/38-43
2-Propenoic acid, 1,1'-[oxybis(methyl-2,1-ethanediyl)] ester	15~25%	57472-68-1	Xi	36/38-43
Urethane diacrylate	10~20%	264888-31-5		
Epoxy diacrylate	10~30%	55818-57-0	Xi	36/37/38-43-52-5
Titanium dioxide	0.1~2%	13463-67-7		3
Carbon black	0.05~0.1%	1333-86-4		
[bis(4-methylphenyl)phosphoroso](2,4,6-trimethylphenyl)methanone	1~4%	270586-78-2	Xi	43-53
Additive	0~2%	-		

## 4. FIRST AID MEASURES

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

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use foam, extinguishing powder, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.
<b>Extinguishing media which must not be used for safety reason</b>	High pressure water jet
<b>Specific hazards in case of fire</b>	Possible decomposition products are: COx, NOx
<b>Special protective equipment for firefighters</b>	For fires in enclosed areas, wear self-contained breathing apparatus and protective suit. Do not inhale combustion gases.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	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.
<b>Environmental precautions:</b>	Do not flush into surface water.
<b>Methods and materials for containment and cleaning up:</b>	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



# SAFETY DATA SHEET

According to 1907/2006/EC  
Revision: 1.1  
Issued: 2023.12.11  
Page: 3 / 5

Standard

<b>Precautions for safe handling:</b>	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.
<b>Conditions for safe storage, including incompatibilities:</b>	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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits:</b>	No values have been established.
<b>Appropriate engineering controls:</b>	
<b>Personal protective equipment:</b>	<b>Respiratory protection:</b> In case of insufficient ventilation, wear suitable respiratory equipment. <b>Hand protection:</b>  Protective gloves <b>Eye protection:</b>  Tightly sealed Goggles
<b>Hygiene measures</b>	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Viscous liquid	<b>Odor</b>	Typical arylates
<b>Color</b>	Refer to product label	<b>Odor Threshold</b>	Not available
<b>pH</b>	Not applicable		
<b>Melting point / Freezing point</b>	No data available	<b>Initial boiling point / Boiling range</b>	Not available
<b>Flash point</b>	> 110°C (Closed-cup)	<b>Evaporation rate</b>	Not available
<b>Flammability (Solid, gas)</b>	Not available	<b>Explosive limits</b>	Not available
<b>Vapor pressure</b>	Not available	<b>Vapor density</b>	Not available
<b>Relative density</b>	ca. 1.12g/cm <sup>3</sup>	<b>Solubility</b>	Not available
<b>Partition Coefficient: n-Octanol/Water</b>	Not available	<b>Auto-ignition temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available	<b>Viscosity (25°C)</b>	150~230 cP

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable at normal conditions
<b>Possibility of hazardous reactions</b>	Under high temperature and exposed to ultraviolet light.

# SAFETY DATA SHEET

According to 1907/2006/EC  
Revision: 1.1  
Issued: 2023.12.11  
Page: 4 / 5

**Standard**

<b>Conditions to avoid</b>	Avoid temperatures above 60°C and exposure to direct sunlight. Keep away from heat, sources of ignition. Avoid contact with acids, oxidizing agents, free radical initiators, sunlight or ultraviolet light, and bases or amines.
<b>Incompatible materials</b>	Peroxides, free radical initiators, strong alkalis, reactive metals
<b>Hazardous decomposition products</b>	COx, NOx, VOCs

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	[2-Propenoic acid 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester] : LD50 = 5000 mg/kg Rat [2-Propenoic acid 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester] : LD50 = 5170 mg/kg Rabbit Acrylated Oligomer : LD50/oral/rat : 5000 mg/kg
<b>Inhalation</b>	Irritating to respiratory system.
<b>Skin contact</b>	May cause sensitization by skin contact. Repeated contact may cause allergic reactions in very susceptible persons. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Ingestion</b>	Harmful if swallowed.
<b>Chronic toxicity</b>	May cause sensitization by skin contact.

## 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	Fish- LC50 1.47mg/L, 95hr, Leuciscus idus (DIN 38412) ( ) Crustaceans- LC50 19,9 mg/L, 48hr, Daphnia magna (DIN 38412) Algae-EC50 4,86 mg/l - 96hr, Desmodesmus subspicatus (DIN 38412)
<b>Persistence and Degradability</b>	Not available
<b>Bioaccumulation Potential</b>	Not available
<b>Mobility in Soil</b>	Insoluble in water

## 13. DISPOSAL CONSIDERATION

<b>Disposal Methods</b>	Dispose of in accordance with local regulations
-------------------------	---

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	Not applicable
<b>UN Proper Shipping Name</b>	Not applicable
<b>Transport hazard class(es)</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not marine pollutant
<b>Special Precautions for Users</b>	None
<b>ICAO/ IATA –DGR : NOT RESTRICTED AS PER DANGEROUS GOOD</b>	

## 15. REGULATORY INFORMATION

<b>Applicable Regulations</b>	Not available
-------------------------------	---------------

# SAFETY DATA SHEET

According to 1907/2006/EC  
Revision: 1.1  
Issued: 2023.12.11  
Page: 5 / 5



Standard

## 16. OTHER INFORMATION

<b>Reference Document</b>	<ul style="list-style-type: none"><li>- Understanding the GHS:A Companion Guide to the Purple Book, PAG 13-3,UNITAR</li><li>- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</li><li>- Guide to the classification and labeling of UV/EB Acrylates, 3 edition, 2007, CEFIC</li></ul>
<b>Issued date</b>	2023/7/15
<b>Revision Note</b>	New issued.
<b>Prepared by</b>	PancoLOUR Ink Co., Ltd. / R&D department / Eugene Pai / +886-3-3270177#108

### DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of document