

SAFETY DATA SHEET

According to 1907/2006/EC
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Elastic-60A

1. IDENTIFICATION

Product Names	Elastic-60A
Recommended use	PHOTOPOLYMER RESIN, UV-curable
Manufacturer details	PANCOLOUR INK CO., LTD. No. 72-1, Wenming Rd., Guishan Dist., Taoyuan City 33382 , Taiwan Tel: +886-3-3270177 ; Fax: +886-3-3270180
Emergency phone number	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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Hazard Components	% by weight	CAS No	Symbol(s)	R-phrases
Glycerol propoxylated, esters with acrylic acid	20~30%	52408-84-1	Xi	36/38-43
1-Ethoxylated phenoxy acrylate	15~25%	48145-08-6	Xi	36/38-43
Urethane diacrylate	20~45%	264888-31-5		
Titanium dioxide	0.1~2%	13463-67-7	Xi	
C.I. Pigment Orange 34	0.05~0.1%	15793-73-4		
2,4,6-trimethylbenzoyldiphenyl phosphine oxide	1~5%	75980-60-8	Xi	43-53
Additive	0~2%	-		

4. 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.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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.
Environmental precautions:	Do not flush into surface water.
Methods and materials for containment and 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.

7. HANDLING AND STORAGE

Precautions for safe 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.
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**Conditions for safe storage,
including incompatibilities:**

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

Exposure Limits: No values have been established.

Appropriate engineering controls:

Personal protective equipment:

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:



Protective gloves

Eye protection:



Tightly sealed Goggles

Hygiene measures

Ensure adequate ventilation.

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Viscous liquid	Odor	Typical arylates
Color	Refer to product label	Odor Threshold	Not available
pH	Not applicable		
Melting point / Freezing point	No data available	Initial boiling point / Boiling range	Not available
Flash point	> 110°C (Closed-cup)	Evaporation rate	Not available
Flammability (Solid, gas)	Not available	Explosive limits	Not available
Vapor pressure	Not available	Vapor density	Not available
Relative density	ca. 1.0~1.05g/cm ³	Solubility	Not available
Partition Coefficient: n-Octanol/Water	Not available	Auto-ignition temperature	Not available
Decomposition Temperature	Not available	Viscosity (25°C)	1400~1800 cP

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at normal conditions

Possibility of hazardous reactions

Under high temperature and exposed to ultraviolet light.

Conditions to avoid

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.

Incompatible materials

Peroxides, free radical initiators, strong alkalis, reactive metals

Hazardous decomposition products

COx, NOx, VOCs

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11. TOXICOLOGICAL INFORMATION

Acute toxicity	[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
Inhalation	Irritating to respiratory system.
Skin contact	May cause sensitization by skin contact. Repeated contact may cause allergic reactions in very susceptible persons. Irritating to skin.
Eye contact	Irritating to eyes.
Ingestion	Harmful if swallowed.
Chronic toxicity	May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

Toxicity	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)
Persistence and Degradability	Not available
Bioaccumulation Potential	Not available
Mobility in Soil	Insoluble in water

13. DISPOSAL CONSIDERATION

Disposal Methods	Dispose of in accordance with local regulations
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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Applicable Regulations	Not available
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16. OTHER INFORMATION

Reference Document	- Understanding the GHS:A Companion Guide to the Purple Book, PAG 13-3,UNITAR - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures - Guide to the classification and labeling of UV/EB Acrylates, 3 edition, 2007, CEFIC
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Prepared by	PancoLOUR Ink Co., Ltd. / R&D department / Eugene Pai / +886-3-3270177#108

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