

SAFETY DATA SHEET



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1. CHEMICAL IDENTIFICATION

UV curable resin

Product name: RES-C127-001

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Composition	GHS	
Acrylate resin monomer	5888-33-5	30~45	H315	Causes skin irritation.
亞克力樹脂單體			H317	May cause an allergic skin reaction.
			H319	Causes serious eye irritation.
			H335	May cause respiratory irritation
			H410	Very toxic to aquatic life with long lasting effects
Acrylate resin oligomer	9011-14-7	55~65		
亞克力樹脂寡聚物				
Photoinitiator	7473-98-5	0.5~1.0	H302	Harmful if swallowed
光引發劑				
Photoinitiator	75980-60-8	2.0~3.0	H317	May cause an allergic skin reaction.
光引發劑			H361	Suspected of damaging fertility or the unborn child.
			H411	Toxic to aquatic life with long lasting effects.

3. HAZARDS IDENTIFICATION

Classification: Irritating to eyes, respiratory system and skin. Harmful if swallowed. Dangerous for the environment.



4. FIRST AID

Eye contact P305+P351+P338 : IF IN EYES : Rinse cautiously with water for several minutes . Remove contact lenses , if present and easy to do. Continue rinsing.

Skin contact: P303+P361+P353 : IF ON SKIN (or hair) : Remove /Take off immediately all contaminated clothing. Rinse skin

with water / showers.

Inhalation: P304+P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing .

Ingestion: P301+P331 : IF SWALLOWED : Do not induce vomiting .

5. FIRE FIGHTING

Extinguishing media: Carbon dioxide, Foam or Dry powders for small fires.

Specific Hazards: Risk of formation of oxides of carbon and sulphur. Risk of Polymerization.

Protection of Fire Fighters: Wear individual breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Contact with skin/eyes and inhalation of vapours to be avoided. Wear Suitable mask/respiratory equipment, gloves, goggles and complete impervious clothing.

Environmental: Do not allow entry into sewers/natural environments

Fire explosion hazard: High temperature, inhibition depletion or exposure to radiation or oxidizing agents may cause spontaneous polymerization resulting in heat/pressure. Closed containers may burst during such polymerisation

Workplace precautions: Local exhaust ventilation is recommended. Safety shower and eye wash should be close by.

Methods for cleaning up: Extinguish all ignition sources. Maximise ventilation. Contain spillage using an inert absorbent. Collect product in a suitable container pending future destruction.

Disposal considerations: See Section 13

7. HANDLING AND STORAGE

Handling precautions: Ensure adequate ventilation. Wear suitable protective clothing.

Storage : P410+P411 : Protect from sunlight. Store at temperature not exceeding 50°C .

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Good general mechanical ventilation is required. Suction exhaust at source is recommended.

Respiratory protection: Wear appropriate NIOSH/MSHA respirator if there a risk of exposure to high concentration.

Eye protection: Wear safety glasses or goggles.

Hand protection: Wear suitable chemical resistant gloves-neoprene or nitrile recommended
Skin protection: Protective overalls are recommended when large quantities of product
Are involved

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Light-yellow transparent liquid
Boiling Point / Boiling Range : >77°C
Odor : Like ester odor
Specific Gravity : 0.902 - 1.15 g/cm³(水=1 Water=1)
Solubility in Water : insoluble
Flash Point : >180°C(close cup)
Auto-ignition : 304°C
Explosive Limit (%) : -
Melting point : --
pH value : 6.2
Odor threshold : --
Flammability(solid,gas) : --
Decomposition temperature : --
Vapor pressure : --
Vapor density : -- (Air=1)
Partition coefficient(n-octanol/water,log Kow) : -
Evaporation rate : --

10. STABILITY AND REACTIVITY

Conditions to avoid: Storage above 30°C, localized heat/ignition sources, freezing conditions,
Direct sunlight, UV light, Oxygen scavengers and inert gas blanketing.
Materials to avoid: Free radical producing chemicals. Peroxides, strong bases, oxidizing and
reducing agents. Hazardous decomposition oxides of carbon and sulphur
Hazardous decomposition Oxides of Carbon, Nitrogen and sulphur and some Brominated compounds
Products: may be released.
Hazardous polymerization: Will occur

11. TOXICOLOGICAL INFORMATION

Effect on eye contact: May cause eye irritation and corneal damage
Effect on skin contact: May cause irritation. Used ingredients are not known sensitizers but
Prolonged/repeated exposure may cause dermatitis.
Effect on inhalation: May cause irritation to the nose, throat and respiratory tract
Effects on ingestion: May cause irritation of the gastrointestinal tract and depression of
the central nervous system. May be harmful.

Chronic effects: Not determined

General comments: It should be noted that toxicological and physiological properties of this Monomer formulations are not yet well determined. Care should be Taken to prevent contact with skin and eyes and from contaminating Personal clothing

12. ECOLOGICAL INFORMATION

Aquatic toxicity data: No data.

General information: Do not discharge into drains or the environment.

13. DISPOSAL CONSIDERATIONS

Measures for disposal: Dispose of material in accordance with all regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labeling: Symbol: Xi, Dangerous for the environment.
Hazard: Irritant, Harmful, very toxic to aquatic organisms

Risk phrases: Irritating to eyes, respiratory system and skin

Safety phrases: Do not breathe vapour. Avoid contact with skin and eyes. In case Of contact with eyes rinse immediately with plenty of water and seek medical advice.

TSCA status: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

Date of preparation: May, 2021

Warranty: The above information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Poly-Tech Co. Ltd. shall not be held liable for any damage or injury resulting from handling, use or from contact with this material
