

Material Safety Data Sheet (MSDS)

Section 1: Chemical and Company Identification

Product name: CXUV-0312A UV Curable Adhesive

Recommended use: Bonding and sealing plastics, metals and other materials used in electronic equipment.

Company: Zhuhai Changxian New Material Technology Co., Ltd.

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Section 2: Hazards Identification

Emergency overview: Combustible liquid. May cause eye, skin and respiratory tract irritation.

May cause an allergic skin reaction. Harmful if swallowed.

Physical state: Liquid

Routes of exposure: Eyes, inhalation and skin.

Potential health effects:

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause skin irritation and an allergic skin reaction.

Eye contact: May cause eye irritation.

Ingestion: May cause harm if swallowed.

Material Safety Data Sheet (MSDS)

Section 3: Composition / Information on Ingredients

Substance ☐

Mixture ☒

No.	Component	CAS No.	Content (% w/w)
1	Polyurethane acrylate	Proprietary	10–40
2	Acrylic monomer	5888-33-5	2–10
3	N,N-Dimethylacrylamide	2680-03-7	10–30
4	Initiator	947-19-3	2–5

Section 4: First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms worsen or persist.

Skin contact: Wash with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if symptoms occur.

Eye contact: Rinse with cool water for at least 15 minutes while holding the eyelids open. Seek medical attention.

Ingestion: Do not induce vomiting. Keep calm and seek immediate medical attention.

Section 5: Firefighting Measures

Flash point: 108°C

Auto-ignition temperature: Not applicable.

Lower flammable/explosive limit: Not applicable.

Upper flammable/explosive limit: Not applicable.

Extinguishing media: Foam or carbon dioxide extinguisher.

Special firefighting procedures: None.

Unusual fire or explosion hazards: Uncontrolled polymerization at high temperatures may cause an explosion or container rupture.

Hazardous combustion products: Carbon dioxide; oxides of nitrogen, phosphorus and sulfur; and irritating organic vapors.

Material Safety Data Sheet (MSDS)

Section 6: Accidental Release Measures

Environmental precautions: Remove ignition sources. Prevent the material from entering surface water.

Cleanup methods: Polymerization may occur. Ventilate the affected area. Absorb with an inert material. Place collected material in a separate area and cover the container before disposal.

Section 7: Handling and Storage

Handling precautions: Keep away from heat, sparks and flames. Avoid direct contact with eyes, skin and clothing. Use only in a well-ventilated area.

Storage precautions: For safe storage, keep in a dark place at 10–26°C. Keep away from ignition sources, heat, sparks and other possible sources of ignition. Protect from sunlight, UV light and other artificial light sources.

Shelf life: 9 months.

Section 8: Exposure Controls / Personal Protection

Engineering controls: Use in an adequately ventilated area.

Respiratory protection: If concentrations may exceed the applicable occupational exposure limit, wear an approved respirator.

Skin protection: Avoid direct skin contact. Wear disposable plastic gloves.

Eye/face protection: Wear safety goggles when necessary.

Section 9: Physical and Chemical Properties

Physical state: Homogeneous, viscous liquid

Color: Transparent amber

Odor: Characteristic acrylate monomer odor

Vapor pressure: Less than 5 mmHg at 20°C

pH: 6.8

Melting point: Not applicable.

Material Safety Data Sheet (MSDS)

Density: 1.08

Water solubility: Insoluble in water

Viscosity (25°C): 10,000 ± 1,500 mPa·s

Refractive index (25°C): 1.48

Section 10: Stability and Reactivity

Stability: Unstable when exposed to light or heat.

Hazardous polymerization: May occur.

Hazardous decomposition products: Oxides of carbon, nitrogen and phosphorus, and other organic vapors.

Incompatible materials: Strong oxidizing agents, strong acids and strong alkalis.

Section 11: Toxicological Information

Product toxicity data: Oral LD₅₀ > 5,000 mg/kg (mouse); dermal LD₅₀ > 2,000 mg/kg (mouse).

Carcinogenicity:

Component	Carcinogenic at ambient conditions	Listed as a carcinogen by health authorities
Polyurethane acrylate	No	No
Acrylic monomer	No	No
N,N-Dimethylacrylamide	No	No
Initiator	No	No

Section 12: Ecological Information

Ecological information: Before curing, prevent direct discharge into bodies of water or sewers. After curing, the material is a typical polymer and presents no direct environmental hazard.

Material Safety Data Sheet (MSDS)

Section 13: Disposal Considerations

Applies to unused adhesive only.

Recommended disposal method: Dispose of in accordance with the laws and regulations of the People's Republic of China and applicable local requirements.

Section 14: Transport Information

DOT regulations — Hazard class: Not regulated.

Land transport ADR/RID (cross-border) — ADR/RID class: Not regulated.

Sea transport IMDG — IMDG class: Not regulated.

Marine pollutant: No.

Air transport ICAO-TI and IATA-DGR — ICAO/IATA class: Not regulated.

Packaging: 30 g/tube, 225 tubes/carton; 50 g/tube, 100 tubes/carton.

Section 15: Regulatory Information

Labeling: Observe general safety rules when handling chemicals.

According to the relevant directives for hazardous materials, this product is not subject to labeling requirements.

National regulations:

Water hazard class: Class I (self-assessment); slightly hazardous to water.

Section 16: Other Information

This MSDS is provided as safety guidance. Because the conditions of use and testing vary, some details may not be covered. If you have questions regarding use, please contact the Technical Service Department for additional information.