Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name: UV-Curable adhesive **Synonyms:** UV-Curable adhesive
commodity code: TJ 2400
(M) SDS Number: 2318EN
Chemical Classification： Ultraviolet (UV) glue
Relevant identified use(s): Mounting sample preparation for metallographic experiments
Emergency telephone number: 13814829868（24h）
Name of the company: Trojan (Suzhou) Material Technology Co., Ltd
Address of the company: Building 26, No. 228 Gongtang Road Luzhi Town,Wuzhong District, Suzhou, China.
Post code: 215000 Fax number: 0512-67508229
Telephone number: 0512-67580617
E-mail address: sales@trojanchina.com

Section 2. Hazards identification

Hazard classification according to GHS:		
Skin corrosion/irritation	Category 2	(H315)
Severe eye injury/eye irritation	Category 2	(H319)
Cutaneous sensitization	Category 1	(H317)

Hazard pictograms**:**



Signal word: Danger
Hazard statements:
H315 - Cause skin irritation
H317 - May cause allergic skin reactions
H319 - Causes severe eye irritation
Precautionary statements:
1. Prevention:
- Avoid release to the environment.
- Keep away from heat and flammable substances.
-Do not eat, drink or smoke when using this product.
-Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands thoroughly after work.

2. Response:

- In case of fire: use suitable extinguishing equipment to extinguish the fire.
- If swallowing: Rinse mouth, do not vomit, seek medical advice as soon as possible.
- In case of contact with eyes: Immediately open eyelids and flush contaminated eyes with mild water. Seek medical attention as soon as possible. If you wear contact lenses and can easily remove them, remove contact lenses. Continue rinsing.
- In case of skin contact: Remove the clothes and wash the contaminated area with soap.

3. Storage:

- Store in a well-ventilated place.

4. Disposal:

- Collect centrally and deal with in accordance with local regulations.

Section 3. Composition/information on ingredients

Chemical Class: Mixtures

Ingredients:

Chemical name	EC No.	CAS No.	Weight-%
polyurethane-acrylate prepolymer	848-035-8	68987-79-1	20-30
Epoxy acrylate prepolymer	203-118-2	71281-65-7	30-40
Acrylate monomer	300-326-6	29324-52-5	10-20
Acrylate monomer	235-921-9	13048-33-4	10-20
Photoinitiator A	213-426-9	947-19-3	<1
Photoinitiator B	278-355-8	75980-60-8	1-3

Section 4. First-aid measures

First-aid measures：

Following skin contact： Immediately rinse with plenty of water for at least 15 minutes. Seek medical attention.

Following skin contact： Wash immediately with soap and plenty of water, those with skin allergies should stop contact and seek medical help.

If inhaled： Move the person to fresh air. If you still feel unwell, seek medical advice immediately.

Most important symptoms/effects, acute and delayed： Causes eye damage and skin irritation. May cause allergic skin reactions.

Personal protection for first aid or rescue personnel

Respiratory protection： Use self-contained breathing apparatus (SCBA) or other supplied-air breathing apparatus

Eye protection： Use a full-face respirator

Skin protection： In case of contact with skin, rinse affected skin area with water. Recommend to wear chemical protective gloves.

Section 5. Firefighting measures

Flash point： 115℃
Self ignition temperature： N.A.
Flammable/Explosive Minimum Content： N.A.
Maximum flammable / explosive content： N.A.
Fire extinguishing mode： Foam and dry ice fire extinguishers
Special fire extinguishing procedure： N.A.
Unusual fire or explosion： Uncontrolled polymerization at high temperatures can lead to explosion or rupture of the bottle.
Hazardous combustion products： Carbon dioxide, nitrogen oxides, phosphorus oxides, sulfur oxides and irritating organic gases.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Do not get in eyes and avoid contact with skin. Keep container tightly closed.
Environmental precautions: Use sand or other suitable inhibitor to prevent spread or entry into sewers, drains or rivers.
Methods for cleaning up： Clean up or eradicate under normal circumstance.

Section 7. Handling and storage

Precautions for handling: Use in a well-ventilated area. Do not get into eyes. Prevent skin irritation. Not to be taken internally. Clean in time after operation.
Precautions for storage： The storage conditions are at 8-25° C, placed in a cool, dry, dark place to keep the container sealed, and avoid water and moisture during storage.
Shelf life： 6 months

Section 8. Exposure controls/personal protection

Accidental ingestion protection： Stick labels such as "Industrial Material" or "No Consumption" on the product packaging.
Skin and body protection、Eye Protection： Choose to use it in a ventilated and spacious environment; it is recommended that direct operators use disposable gloves or finger cots; it is recommended to use automatic mechanical gluing to reduce human contact.

Section 9. Physical and chemical properties

Physical form： Transparent, viscous
Color： Colorless and transparent
Odor： Irritating odor before curing
Viscosity (mPa.s 25℃): 200-300

Proportion（23℃）： 0.92-0.99
Shore hardness（D）： 78
Elongation at break（%）： N.A.
Vapour pressure（25℃） N.A.
Relative vapor pressure: N.A.
Solubility： Insoluble in water, soluble in organic solvents

Section 10. Stability and reactivity

Stability： Exposure to light, high temperature would affect stability
Storage temperature： 8-28℃
Hazardous decomposition products： Carbon oxides, sulfur oxides, nitrogen oxides, phosphorus oxides and other organic gases.
Uncoexistent substance： Strong oxidizing substances, strong acid, strong alkali

Section 11. Toxicological information

This product is a non-volatile, non-carcinogenic material, and the general hazard is contact irritation. Excessive or repeated contact can irritate the skin, and those who are in first contact and long-term close contact can irritate the eyeballs. The irritants are mainly acrylates.
This product has low toxicity, LD50>3000mg/kg.

Section 12. Ecological information

Avoid direct discharge into pools or sewers before curing; after curing, it is a typical polymer, which has no direct harm to the environment.

Section 13. Disposal considerations

After use, bottles and cartons with leftover products should be disposed of in accordance with regulations. Since this product is slightly harmful to the environment before and after use, there are no strict requirements for disposal.

Section 14. Transport information

This product is not classified as flammable and explosive.

Section 15. Regulatory information

Applicable regulations： This product complies with the regulatory requirements for related products and is not a product that requires a safety license to be produced.

Section 16. Others

Reference	Baidu Encyclopaedia, baiduwenku	
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