Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name: Acrylic Resin hardener **Synonyms:** Cold mounting resin hardener

commodity code: TJ 2800B

(M)SDS Number: 2206EN

Relevant identified use(s): Thermal 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.

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Section 2. Hazards identification

Hazard classification according to GHS:

Skin corrosion/irritation	**Category2**	**(H315)**
Severe eye injury/eye irritation	**Category 2**	**(H319)**
Cutaneous sensitization	**Category 1**	**(H317)**
Specific target organ toxicity (one exposure)	**Category 3**	**(H335)**
Acute aquatic toxicity	**Category 1**	**(H400)**
Chronic aquatic toxicity	**Category 3**	**(H412)**
Inflammable liquids	**Category 3**	**(H226)**

Hazard pictograms**:**



Signal word: Danger

Hazard statements:

H226 - Flammable liquids and vapors

H315- Cause skin irritation

H317- May cause allergic skin reactions

H319- Causes severe eye irritation

H335- May cause respiratory irritation

H400- Very toxic to aquatic organisms

H412- Harmful to aquatic organisms and has long lasting effects

Precautionary statements:

1. **Prevention:**
- Keep it cold
- Keep away from heat source/spark/open flame/hot surface.
- When using the product, do not eat, drink or smoke.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid inhaling dust/smoke/gas/smoke/steam/spray.- Only used outdoors or in well-ventilated areas.
2. **Response:**
- In case of fire: use suitable extinguishing equipment to extinguish the fire.
- If swallowed: Move person to fresh air and keep comfortable breathing position.- In case of contact with eyes: Open eyelid immediately and flush contaminated eyes with mild water, seek medical advice as soon as possible.
- In case of skin contact: Remove clothes and wash contaminated area with soap.In case of skin irritation or rash: see a doctor/doctor.
- Call a detoxification centre or doctor if you feel unwell.
3. **Storage:**
- Store in a well-ventilated place. Keep container airtight.
4. **Disposal:**
- Dispose of contents/containers in accordance with applicable local/regional/national/international regulations.

Section 3. Composition/information on ingredients

Mixture:

Substances: Colorless or slightly yellow liquid			
Chemical name	**Weight-%**	**EC No.**	**CAS No.**
Butyl Methacrylate（BMA）	90%	202-615-1	97-88-1
Ethylene dimethacrylate	10%	219-099-9	2358-84-1

Section 4. First-aid measures

General advice: Immediate medical attention is required. Show this material safety data sheet (MSDS) to the doctor in attendance.

Description of necessary first-aid measures

If inhaled

Remove to fresh air. If symptoms develop, seek medical attention immediately. If breathing has stopped, give artificial respiration. Get immediate medical attention. Need immediate medical attention. Do not use the mouth-to-mouth method if the patient ingests or inhales the substance. Use a pocket breathing mask equipped with a one-way valve or other appropriate respiratory medical equipment to give mouth to mouth breathing. If breathing is difficult, oxygen is given (by trained personnel).

Following skin contact

Wash immediately with soap and plenty of water, and remove contaminated clothing and shoes. May cause allergic reactions to the skin. If skin irritation or allergic reactions occur, please seek medical treatment.

Following eye contact

Immediately rinse with plenty of water for at least 15 minutes, including under eyelids. Keep your eyes open while rinsing. Don't rub the affected area. If you wear contact lenses and can easily remove them, remove contact lenses. Continue rinsing. If irritation expands and persists, seek medical attention. **Following ingestion** Do not induce vomiting. Rinse the mouth with water, then drink plenty of water. Do not give anything through the mouth to an unconscious person.
Most important symptoms/effects, acute and delayed Pruritus, rash, measles, burning sensation, cough and/or wheezing and difficulty breathing.
Advice for protecting the rescuer Wear gloves and masks for protection.
Special note to the doctor May cause allergies in susceptible populations, symptomatic treatment.

Section 5. Firefighting measures

Suitable extinguishing media: Chemical dry powder, carbon dioxide (CO2), water spray, soluble foam.
Specific hazards arising from the substance or mixture Ignition risk. Keep products and empty containers away from heat and fire sources. In case of fire, spray the tank to cool it. Fire residues and contaminated water for fire fighting must be disposed of in accordance with local regulations. This product is or contains an allergen. May cause irritation by skin contact.
Special fire extinguishing procedure: Use a full set of NIOSH certified breathing equipment and safety clothing. Cool exposed containers with water. Water coming into direct contact with a fire foams and causes the fire to expand.
Special protective actions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full fire fighting clothing and use personal protective equipment.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate people to safety. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Personnel should be kept away from spillage/leak areas or in the upper tuyere. Do not breathe in steam or smoke.
Environmental precautions: To prevent further leakage or spillage as far as is safe and practicable. Prevent product from entering drains.
Methods and materials for containment and cleaning up Containment method: If you can do it without risk, stop the leak. Do not touch or pass through leaking material. Vapor suppression foam can be used to reduce vapor. Dikes were built far from the spill to collect the waste water. Stay away from drains, sewers, ditches and waterways. Cleaning method: Take precautions against electrostatic discharge. Dam up. Absorb with inert absorbent material. Collect and transfer to appropriately labeled containers.

Section 7. Handling and storage

Precautions for handling 1. room temperature, a small amount of use, general ventilation equipment can be. 2. a large number of use or temperature rise, must use local exhaust ventilation equipment.
Precautions for storage Keep container tightly closed and in a dry, cool and well ventilated place. Keep away from heat sources, sparks, flames, and other sources of ignition (i.e. lights, motors, and static electricity).
Safety Instructions: Use personal protective equipment to avoid contact with skin and eyes. Keep away from heat source/spark/open flame/hot surface. - No smoking. Use grounding and connection when transferring this material to prevent static electricity, fire or explosion. Use fireproof flower tools and explosion-proof equipment. Store in a sprinkler equipped area. Use according to packaging label instructions. Operate in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing. If ventilation is poor, wear appropriate protective breathing equipment. Do not eat, drink or smoke when using this product. Remove all contaminated clothing and wash before reuse. Do not breathe in steam or smoke. Only handle the product in a closed system or provide suitable exhaust equipment. **General health precautions:** Do not eat, drink or smoke when using this product. Contaminated work clothes shall not be taken out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before rest and immediately after handling the product. Wear appropriate gloves and eye/face protection equipment. Avoid contact with skin, eyes or clothing. Do not breathe in steam or smoke. Remove and wash contaminated clothing and gloves, including the inside, before reuse.

Section 8. Exposure controls/personal protection

Engineering control: Maintain adequate ventilation. Do not smoke or eat or drink in the workplace. Wash hands thoroughly after handling. Maintain good housekeeping.
Control parameters - 8 hours daily average admissible concentration/short time average admissible concentration/maximum admissible concentration：N.A. - biological indicator：N.A.
Personal protection equipment - Eye /Face protection: Tightly sealed goggles. If splashing is a possibility, wear safety glasses with a side guard. Consumer use is not required. Wear appropriate gloves for hand protection. Impervious gloves. - Skin and body protection: Wear appropriate protective clothing, long-sleeved shirts, chemical-resistant aprons, and anti-static boots.
Hygiene measures: N.A.

Section 9. Physical and chemical properties

Appearance: Transparent or yellowish liquid	**Odor**: Irritating odor

Odor threshold: 0	**Melting point :** -83 ℃
Flashpoint: 109℃	**Boiling point/boiling point range:** 155℃
pH: 5-7	**Spontaneous Ignition point:** N.A.
Flammability: Flammable	**Test method:** V Open Glass
Decomposition temperature: 260℃	**Explosion limit:** 18.6—59.3%
Vapor pressure: 2.67kPa/60℃	**Vapor density :** 3.82（Heavier than air）
Relative density: 0.901	**Solubility:** Do not dissolve in water

Section 10. Stability and reactivity

Stability and reactivity Stable under normal conditions The explosion of data N.A. Sensitive to mechanical impact N.A. Sensitive to electrostatic discharge Y
Possible hazardous reactions under special circumstances: It doesn't happen during normal processing.
Conditions to avoid: Heat source, flame and spark, overheating. **Prohibited content:** Strong acid, strong base, strong oxidant.
Hazardous decomposition products: Not under normal service conditions

Section 11. Toxicological information

Exposure pathways: inhalation, skin, eyes, ingestion
Symptom: **Inhalation**: Specific test data for this substance or mixture are not available. May cause respiratory irritation. Toxic by inhalation (according to composition). **Eye contact:** Specific test data for this substance or mixture are not available. Stimulate eyes (depending on composition).May cause redness, itching and pain. Causes severe eye irritation. **Skin contact:** Specific test data for this substance or mixture are not available. Causes skin irritation (depending on composition).May cause irritation. Prolonged exposure may cause redness and irritation. **Ingestion**: Specific test data for this substance or mixture are not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. **Information on toxicological effects:** **Symptoms**: Pruritus, rash, hives, redness. May cause red and watery eyes, coughing and/or wheezing and difficulty breathing.
Acute toxicity: LD50:1490 mg/kg(mouse abdominal cavity);11300 mg/kg(rabbit transdermal) LC50:19689mg/m3, 4 h (rat inhalation).
Chronic or chronic toxicity: Skin corrosion/irritation: Classification based on available data of components. Irritating skin. Severe eye injury/eye irritation: Classification based on available data of components. Irritating eyes. Respiratory or skin sensitization: May cause irritation by skin contact.

Germ cell mutagenesis: No information available. Carcinogenicity: No information available. Reproductive Toxicity: No information available. STOT - One Touch: May cause respiratory irritation. STOT - Repeated Contact: No information available. Inhalation Hazard: No information available.

Section 12. Ecological information

Ecotoxicity: Very toxic to aquatic organisms. Harmful to aquatic organisms and has long lasting effects.
Persistence and Degradability: Degradable.
Bioaccumulation: N.
Mobility in soil: /
Other adverse effects: /
Ecotoxicity: Very toxic to aquatic organisms. Harmful to aquatic organisms and has long lasting effects.

Section 13. Disposal considerations

Waste treatment methods:	
Residues/waste from unused products	Not to be discharged into the environment. Dispose in accordance with local regulations. Disposal according to environmental regulations.
Contaminated Packaging	No information available.

Section 14. Transport information

Special Name for Transport: Container bottles are not specified for <110 Gal.

International Transport Regulations:
UN Name: 2227
Transport hazard class : 3
Packing group: 2227
Marine pollutant:N
Special transportation method and matters needing attention: Resin solution

Others:

IMDG/IMO	
UN number	2227
Proper Shipping Name	n-BUTYL METHACRYLATE, STABILIZED
Hazard Class	3
Packing Group	III
Marine Pollutant	Y
Environmental Hazards	Y
Special provisions	N.A.
EmS-No.	F-E, S-E

Bulk transportation basis MARPOL 73/78	N.A.
RID	
UN number	2227
Proper Shipping Name	n-BUTYL METHACRYLATE, STABILIZED
Hazard Class	3
ADR/RID - Label	3
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.
ADR	
UN number	2227
Proper Shipping Name	n-BUTYL METHACRYLATE, STABILIZED
Hazard Class	3
Packing Group	III
Environment Hazards	Y
Special provisions 640E	N 274, 601,
Class Code	F1
Tunnel Limit Code	(D/E)
IATA	
UN number	2227
Proper Shipping Name	n-BUTYL METHACRYLATE, STABILIZED
Hazard Class	3
Packing Group	III
Environment Hazards	Y
ADR/RID - Label	3
Packing Group	III

Section 15. Regulatory information

Applicable regulations: China

Section 16. Others

Reference		
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