Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name: Epoxy King **Synonyms:** Epoxy Crystal King Resin
commodity code: TJ 2221A
(M)SDS Number: 2303EN
Relevant identified use(s): Cold 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

Name： Liquid epoxy resin and hardener			
Substances			
Chemical name	EC No.	CAS No.	Weight-%
Liquid Epoxy Resin	500-033-5	25068-38-6	>99%
Additive			<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 the source of contamination or move the person to fresh air. If you still feel unwell, seek medical advice immediately.

Following skin contact

Seek medical attention immediately. Wash immediately with soap and plenty of water, and remove contaminated clothing and shoes, which may cause allergic skin reactions.

Following eye contact

Immediately rinse with plenty of water, including under the eyelids, for at least 15 minutes, keeping the eyes open while rinsing and not rubbing the affected area. If you wear contact lenses and can easily remove them, remove contact lenses. Continue to irrigate and seek medical attention immediately.

Following ingestion

Do not induce vomiting. Rinse the mouth with water, then drink plenty of water. Do not give anything to the unconscious person through the mouth. Seek medical attention immediately.

Most important symptoms/effects, acute and delayed

These include acute and delayed burning, itching, rashes, and measles.

Advice for protecting the rescuer

First aid should be performed in a safe area wearing class C protective equipment.

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, water mist, foam.
Specific hazards arising from the substance or mixture The product and empty container should be kept away from heat source and fire source. In case of fire, please cool the tank with water mist. This product is or contains allergens, which may cause allergies by skin contact. **Hazardous combustion products:** carbon oxides
Special fire extinguishing procedure: 1. Be located upwind to avoid toxic breakdown. 2. Cooling tanks or containers exposed to the fire with water mist. 3. To extinguish the fire with water column is ineffective.
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: 1. Evacuate personnel to safe areas and use personal protective equipment as required. 2. Take precautions against electrostatic discharge. Do not touch or pass through leaking materials, avoid contact with skin, eyes or clothing, and ensure adequate ventilation. 3. Limit personnel access, personnel must be away from the spill/leak area, or in the upper tuyere.
Environmental precautions: 1. Ventilate the leakage area. 2. Remove all ignition sources. 3. Inform relevant units of occupational safety, health and environmental protection of the government.
Methods and materials for containment and cleaning up 1. Do not touch leaks. 2. Avoid leakage into sewers or narrow Spaces. 3. Where safety permits, try to prevent or reduce spills, do not contact or pass through the leaking material, and build embankments in the distance of the leaking liquid for subsequent disposal. 4. Contain the release with soil, sand or similar stable and non-flammable substances that will not react with the release. 5. When a small amount of spills and leaks, take preventive measures of electrostatic discharge, dam them, absorb them with inert absorption materials, collect them and transfer them to appropriately labeled containers. 6. In case of large spills, contact the fire department, emergency treatment unit and suppliers for assistance.

Section 7. Handling and storage

Precautions for handling

1. Use personal protective equipment. Do not inhale steam or smoke, keep away from heat source/spark/flame/hot surface.
2. Do not smoke, take preventive measures of electrostatic discharge, and use local exhaust ventilation. Operate in accordance with good industrial hygiene and safety practices to avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. If ventilation is poor, wear appropriate protective breathing equipment. Remove all contaminated clothing and wash before reuse.
3. 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 immediately before rest and after handling the product to avoid contact with skin, eyes or clothing. Wear appropriate gloves and eye/face protective equipment.
4. Emergency response devices for fire fighting and leakage treatment shall be provided.

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).Store in appropriately labeled containers, in accordance with specific national regulations, in accordance with local regulations, and in a locked place. Store out of reach of children.

Operation cautions: Rinse thoroughly after operation. Avoid contact with skin and eyes. Suitable for industrial applications only.

Section 8. Exposure controls/personal protection

Engineering control:

1. Use a non-sparking, grounded ventilation system separate from the general exhaust system.
2. The waste gas is discharged directly to the outdoors and appropriate measures should be taken to protect the environment.
3. Provide sufficient fresh air to supplement the air discharged from the exhaust system.

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

- Respiratory protection: self-exposing respirator, no special treatment is required under normal ventilation conditions. If exposure is unknown, or exceeds TLV/PEL, or adverse consequences have occurred, use an NIOSH approved vacuum mask in accordance with the actual health and safety regulations and manufacturing instructions.
- Hand protection: Acrylic rubber impermeable gloves, polyethylene alcohol, oxidized elastomer.
- Eye protection: wear safety goggles. Chemical protective goggles.
- Skin and body protection: rubber, oxidized elastomer, polyethylene alcohol, acrylonitrile and other impermeable gloves, protective clothing, work shoes.

Hygiene measures:

1. Take off contaminated clothes as soon as possible after work. Wash them before wearing them. 2. Smoking and eating are strictly prohibited in the workplace. 3. Wash hands thoroughly after handling. 4. Keep the workplace clean.

Section 9. Physical and chemical properties

Appearance: Liquid State	**Odor**: With a slight fragrance
Odor threshold: 0	**Melting point :** /
Flashpoint: 125.2℃	**Initial boiling point and boiling range**: N.A.
pH: /	**Ignition point:** 260℃
Vapor pressure: 1mmHg (at 20℃)	**Vapor density :** N.A.
Relative density: A 1.15(Water=1)	**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 N.A.
Possible hazardous reactions under special circumstances: Possible dangerous reaction: Does not occur during normal handling. Dangerous polymerization: Dangerous polymerization does not occur.
Conditions to avoid: Static electricity, sparks, flames and other sources of ignition. **Prohibited content:** Strong acid, strong base, strong oxidant
Hazardous decomposition products: Carbon oxides such as CO and CO_2 are produced by thermal decomposition

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. **Eye contact:** Specific test data for this substance or mixture are not available. Severe eye irritation, causing serious eye damage, may result in burns and may cause irreversible damage to the eyes. **Skin contact:** Specific test data for this substance or mixture are not available. May cause irritation, cause skin irritation (depending on composition), may be inhaled through the skin in harmful amounts, harmful by skin contact. **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**: Red, burning, may lead to blindness. Pruritus, rash, measles, may cause red and watery eyes.

Chronic or chronic toxicity: LD50(test animals, absorption pathway) : 10000~11400mg/kg(rats, swallowed) Skin corrosion/irritation: Classification based on available data of components. Irritating skin. Severe eye injury/eye irritation: Classification based on available data of components. Causes burns and is at risk of serious eye damage. 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: No information available. STOT - Repeated Contact: No information available. Inhalation Hazard: No information available.

Section 12. Ecological information

Ecotoxicity: The substance may be hazardous to the environment and special attention should be paid to water bodies. Toxic to aquatic organisms and has long lasting effects.
Persistence and Degradability: Degradable.
Bioaccumulation: No information available.
Mobility in soil: No information available.
Other adverse effects: No information available.

Section 13. Disposal considerations

Waste treatment methods:	
Residues/waste from unused products	1. Refer to relevant laws and regulations. 2. Store the waste to be treated according to the storage conditions. 3. Specific incineration or sanitary landfill methods may be used for treatment.
Contaminated Packaging	No information available.

Section 14. Transport information

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

International Transport Regulations: 1. Road Traffic Safety Code Article 84. 2. Rules for the Loading of Dangerous Goods. 3. Implementation Rules of Taiwan Railway Administration for Dangerous Goods Handling and Transportation.
UN Name: 3077
Transport hazard class： 9
Packing group: III

Marine pollutant: Y
Special transportation method and matters needing attention: No special requirements.

Others:

IMDG/IMO	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Marine Pollutant	Y
Special provisions	N.A.
Bulk transportation basis MARPOL 73/78	N.A.
RID	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.
ADR	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.
IATA	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.

Section 15. Regulatory information

Applicable regulations: China

Section 16. Others

Reference		
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