Material Safety Data Sheet

Section 1: Identification

Product Name: Epoxy Crystal King **Other Names: Epoxy Crystal King Resin**
Product Code: EP1001-A
(M)SDS Number: 2323
Recommended Use and Restrictions on Use: Cold mounting resin for metallographic sample preparation
Emergency Phone Number: 13814829868
Manufacturer / Supplier: Trojan (Suzhou) Materials Technology Co., Ltd.
Address: Building 26, No. 228, Gongtang Road, Luzhi Town, Wuzhong District, Suzhou, Jiangsu Province, China
Postal Code: 215000 **Fax:** 0512-67508229
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Section 2: Hazard(s) Identification

Classification according to GHS:

Skin Corrosion/Irritation	Category 2	(H315)
Serious Eye Damage/Eye Irritation	Category 2	(H318)
Skin Sensitization	Category 1	(H317)
Hazardous to the Aquatic Environment (Chronic)	Category 3	(H411)

Labeling Information：



Labeling Information:
Signal Word: Warning
Hazard Statements (H-statements):
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements：
1. Prevention：
-Avoid release to the environment
-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

-Do not eat, drink or smoke when using this product
-Wear protective gloves/protective clothing/eye protection/face protection
-Wash hands thoroughly after handling
2. **Response：**
-In case of fire: Use appropriate extinguishing media
-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention immediately
-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately
-IF ON SKIN: Remove contaminated clothing and wash skin with soap and water
3. **Storage:**
-Store in a well-ventilated place
4. **Disposal:**
-Collect spillage and dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients

Name： Liquid Epoxy Resin

The table is as follows:

Chemical Name	EC No.	CAS No.	Weight-%
Liquid Epoxy Resin (Bisphenol A type, E-03)	607-537-5	25085-99-8	100%

Section 4: First-Aid Measures

General Advice: Show this Safety Data Sheet (SDS) to the attending physician. Seek medical attention immediately if necessary.

First-aid Measures by Route of Exposure:
Inhalation: Remove the affected person from exposure or move to fresh air. If symptoms persist, seek medical attention immediately.
Skin Contact: Wash affected area immediately with soap and plenty of water. Remove contaminated clothing and shoes. May cause skin sensitization. If irritation or rash occurs, seek medical advice.
Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, including under the eyelids. Keep eyes open during rinsing. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.
Ingestion: Do NOT induce vomiting. Rinse mouth with water and drink plenty of water. Do not give anything orally to an unconscious person. Seek medical attention.
Self-protection of First-aiders:
Eliminate all ignition sources. Ensure that first-aiders are aware of the materials involved and take appropriate protective measures to prevent contamination spread. Wear suitable personal protective equipment to avoid contact with skin, eyes, and clothing.

Most Important Symptoms and Effects, Both Acute and Delayed:

Burning sensation, itching, rash, hives. May cause allergic reactions in sensitized individuals.
Self-protection of First-aiders: Eliminate all ignition sources. Ensure that first-aiders are aware of the materials involved and take appropriate protective measures to prevent contamination spread. Wear suitable personal protective equipment to avoid contact with skin, eyes, and clothing.
Advice for Physicians: Treat symptomatically. May cause allergic reactions in susceptible individuals.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO_2), water spray, foam.
Specific Hazards Arising from the Chemical: Keep product and empty containers away from heat and ignition sources. In case of fire, cool exposed containers with water spray. This product contains or may contain sensitizing agents; skin contact may cause allergic reactions.
Special Fire-fighting Procedures: Stay upwind to avoid inhalation of toxic decomposition products. Cool tanks or containers exposed to fire with water spray. Do not extinguish with a direct water jet.
Protective Equipment for Firefighters: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective clothing. Use appropriate personal protective equipment (PPE).

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: 1. Evacuate personnel to safe areas. Use personal protective equipment as required. 2. Take measures to prevent static discharge. Avoid contact with spilled material, and prevent exposure to skin, eyes, or clothing. Ensure adequate ventilation. 3. Restrict access; personnel should stay upwind of the spill or release area.
Environmental Precautions: 1. Ventilate the affected area. 2. Remove all sources of ignition. 3. Notify relevant governmental occupational safety, health, and environmental authorities.
Methods and Materials for Containment and Cleaning Up: 1. Do not touch or walk through spilled material. 2. Prevent material from entering drains or confined spaces. 3. If safe to do so, contain or minimize the spill without direct contact. Construct barriers to prevent further spread. 4. Contain spilled material using inert, non-combustible absorbents such as sand or earth. 5. For small spills: take precautions against static discharge, dam the spill, absorb with inert material, collect, and transfer to appropriately labeled containers.

6. For large spills: contact fire department, emergency response units, and the supplier for assistance.

Section 7: Handling and Storage

Precautions for Safe Handling:

1. Use appropriate personal protective equipment (PPE). Do not inhale vapors or fumes. Keep away from heat, sparks, open flames, and hot surfaces.
2. No smoking. Take precautions against static discharge. Use local exhaust ventilation where necessary. Follow good industrial hygiene and safety practices. Avoid contact with skin, eyes, or clothing. Do not eat, drink, or smoke when using this product. If ventilation is insufficient, use suitable respiratory protection. Remove contaminated clothing and wash before reuse.
3. Contaminated work clothes must not be taken out of the workplace. Clean equipment, work area, and clothing regularly. Wash hands immediately after handling and before breaks. Wear suitable gloves and eye/face protection.
4. Ensure availability of emergency firefighting and spill response equipment.

Conditions for Safe Storage:

Keep containers tightly closed. Store in a dry, cool, and well-ventilated place.

Keep away from heat, sparks, open flames, and other sources of ignition (including indicator lights, motors, and static).

Store in appropriately labeled containers in accordance with national regulations. Store in locked areas out of reach of children.

Specific Use:

Industrial use only.

After handling, wash thoroughly. Avoid contact with skin and eyes.

Section 8: Exposure Controls / Personal Protection

Occupational Exposure Limits:

Component Name	CAS	Source	Limit Value
1-Chloro-4 Trifluromethyl Bisphenol A Epoxy Resin	25085-99-8	GBZ 2.1—2019	MAC： PC-TWA： PC-STEL：

Biological Limits: None available

Monitoring Methods:

- GBZ/T 160.1 ~ GBZ/T 160.81-2004: Workplace air measurement of toxic substances (series standards)
- EN 14042: Workplace air – Guide for assessment of exposure to chemical or biological agents

Engineering Controls:

- Separate work areas from other operations.
- Operate in closed systems to prevent leaks.
- Ensure adequate ventilation.
- Install automatic alarm and emergency ventilation systems.

- Provide emergency escape routes and designated risk zones.
- Use red warning lines, warning signs, and labels in Chinese.
- Provide safety showers and eye wash stations.

Personal Protective Equipment (PPE):

- Respiratory Protection: If airborne concentrations exceed limits, wear a filter-type respirator (half-mask). In emergencies or evacuation, use self-contained breathing apparatus (SCBA).
- Hand Protection: Wear oil-resistant rubber gloves.
- Eye Protection: Use chemical safety goggles.
- Skin and Body Protection: Wear protective clothing resistant to chemical penetration.

Section 9: Physical and Chemical Properties

Basic physical and chemical properties： **Basic Information** **Appearance：** Liquid **Color：** Clear **Odor：** Mild **Odor Threshold：** Not determined
PH： Not determined
Melting Point / Freezing Point： Not determined **Boiling Point / Range：** Not determined
Flash Point： >110 °C (>230 °F)
Flammability (solid, gas)： Non-flammable
Decomposition Temperature： Not determined
Auto-ignition Temperature： Product is not self-igniting
Explosion Risk： Product does not present an explosion hazard
Vapor Pressure： Not determined
Density： Not determined
Relative Density **Vapor Density：** >1 **Evaporation Rate：** <BuAc
Solubility in Water： Insoluble / Poorly miscible
Partition Coefficient (n-octanol/water)： Not determined
Viscosity **Dynamic：** Not determined **Kinematic：** Not determined
Volatile Organic Compounds： 0.00 %
Other Information： No additional relevant information

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Explosion Data:

- Sensitivity to mechanical impact: None
- Sensitivity to static discharge: None

Possibility of Hazardous Reactions:

Hazardous reactions: Will not occur under normal handling

Hazardous polymerization: Will not occur

Conditions to Avoid: Static electricity, sparks, open flames, and other sources of ignition

Incompatible Materials: Strong acids, strong bases, strong oxidizing agents

Hazardous Decomposition Products: Thermal decomposition may produce carbon oxides (CO, CO_2)

Section 11: Toxicological Information

Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Symptoms:

- **Inhalation:** No specific test data available. May cause respiratory tract irritation.
- **Skin Contact:** No specific test data available. May cause irritation and skin sensitization. Harmful if absorbed through skin.
- **Eye Contact:** No specific test data available. Causes serious eye irritation and may cause irreversible eye damage.
- **Ingestion:** No specific test data available. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Toxicological Effects:

- Redness, burning, itching, rash, hives; may cause eye redness and tearing.

Acute / Chronic Toxicity: LD50 (oral, rat): 10,000–11,400 mg/kg

Skin Corrosion / Irritation: Classified based on component data. Causes skin irritation.

Serious Eye Damage / Eye Irritation: Classified based on component data. May cause burns and serious eye damage.

Respiratory or Skin Sensitization: May cause skin sensitization on contact.

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available

STOT – Single Exposure: No data available

STOT – Repeated Exposure: No data available

Aspiration Hazard: No data available

Section 12: Ecological Information

Ecotoxicity: May be hazardous to the environment; special attention should be given to aquatic systems. Toxic to aquatic life with long-lasting effects.

Persistence and Degradability: Biodegradable

Bioaccumulative Potential: None

Mobility in Soil: Not determined/

Other Adverse Effects: Not determined
Ecotoxicity:/

Section 13: Disposal Considerations

Waste Treatment Methods: 1. Recycle whenever possible. 2. If recycling is not feasible, dispose of by incineration. 3. Do not dispose of into drains or sewers. 4. Solidified material may be treated as general waste; liquid form cannot. **Contaminated Packaging:** No data available

Section 14: Transport Information

Proper Shipping Name: No special regulations for container <110 gal

International Transport Regulations: • Road Traffic Safety Rules, Article 84 • International Maritime Dangerous Goods Code (IMDG) • Taiwan Railway Dangerous Goods Transportation Rules
UN Number: /
Transport Hazard Class： /
Packaging classification: General solid transportation
Marine Pollutant： /
Special Precautions for Transport: None

General:

IMDG/IMO	Not regulated
UN Number	Not regulated
roper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not regulated
Marine Pollutant	Not applicable
Special Provisions	/
Bulk Transport According to MARPOL 73/78	None
RID	Not regulated
UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not regulated
Environmentally Hazardous	Not applicable
Special Provisions	None

ADR	Not regulated
UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not regulated
Environmentally Hazardous	Not applicable
Special Provisions	None
IATA	Not regulated
UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not regulated
Environmentally Hazardous	Not applicable
Special Provisions	None

Section 15: Regulatory Information

Applicable Regulations:

The following laws, regulations, and standards apply to the management of this chemical:

- **Component:** 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, CAS: 25068-38-6
- **Occupational Disease Prevention Law of the PRC:** Not listed
- **Catalogue of Occupational Hazard Factors (2015):** Not listed
- **Regulations on the Safety Management of Hazardous Chemicals:** Not listed
- **Catalogue of Hazardous Chemicals (2015):** Not listed
- **List of Explosive Precursors (2017):** Not listed
- **List of Key Controlled Hazardous Chemicals:** Not listed
- **Measures for Environmental Management of Hazardous Chemicals (Trial):** Not listed
- **Regulations on Narcotic and Psychotropic Drugs:** Not listed
- **New Chemical Substances Environmental Management Measures:** Listed in China Existing Chemical Substances Inventory (2013)

Section 16: Other Information

References:		
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