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Hefei TNJ Chemical Industry Co.,Ltd.

B910-911 Xincheng Business Center,

Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Material Safety Data Sheet

Epoxy Resin

Section 1: Chemical Product and Company Identification

Molecular formula:(C15H16O2 . C3H5ClO)x

CAS Nr: 25068-38-6

Molecular weight: 1283.36

Synonyms:BISPHENOL A DIGLYCIDYL ETHER RESIN

Contact Information for Emergency: (0086) 551 65418678

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230004Anhui

China

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	Epoxy equivalent(g/eg)
Epoxy Resin	25068-38-6	184-194

Section 3: Hazards Identification

WARNING !

Health and Physical Hazards

Irritant: Product contains chemicals known to cause skin and eye irritation and may cause sensitization by skin contact.

Routes of Exposure Target Organs

Inhalation -Yes Blood -No

Skin contact -Yes Eyes -Yes

Eye contact -Yes Kidneys -No

Ingestion -Yes Liver -No

Lungs -Yes

Central nervous system -Yes

Reproductive -No

Skin -Yes

Inhalation

May cause irritation to the respiratory tract and coughing (sneezing).

Skin

Prolonged or repeated skin contact may cause irritation and allergic skin reaction or sensitization.

Eyes

Contact with product may cause moderate eye irritation.

Ingestion

May cause irritation of the gastrointestinal tract and digestive discomfort.

Other

No data found.

Section 4: First Aid Measures

Inhalation

Remove to fresh air. If respiratory difficulties continue, seek immediate medical care.

Skin contact

Wash affected area with plenty of soap and water. If irritation persists, seek medical care.

Eye contact

Flush eyes thoroughly with water for at least fifteen minutes. If discomfort occurs, consult a physician, preferably an ophthalmologist.

Ingestion

Do not induce vomiting. Seek medical care immediately if ill effects occur.

Note to Physician

Treat symptomatically.

Section 5: Fire and Explosion Data

Flash Point: Method:

> 200° F, (> 93° C) Setaflash Closed Cup ASTM E502.

Explosion Limits:

Lower (LEL)

No data found.

Upper (UEL)

No data found.

Extinguishing Media

Foam, alcohol foam, CO₂, dry chemical, water fog.

Specific Methods

Use water spray to fight fires. Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus (SCBA).

Unusual Hazards

No data found.

Section 6: Accidental Release Measures

Personal Precautions

Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Keep nonessential personnel away from the contaminated area.

Avoid contact with skin, eyes and clothing. Use appropriate Personal Protective Equipment (PPE). For guidance on selection of PPE see Section 8, "Engineering Control and Personal Protective Equipment" of this MSDS.

Ensure adequate ventilation.

Environmental Precautions

Prevent this material from contaminating surrounding environment.

Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.

Methods for Cleanup

Sweep, shovel and collect material into a covered container. Dispose of according to all applicable state, provincial, federal and local regulations.

Section 7: Handling and Storage

Handling

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times.

Empty Container Precautions: Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur.

Storage

Keep containers closed when not in use in well-ventilated place.

Store at room temperatures.

Section 8: Exposure Controls/Personal Protection

Engineering Controls

Use with adequate local ventilation especially in confined areas. In industrial applications, ensure ventilation is in compliance with occupational exposure limits.

Respiratory Protection

Local exhaust is recommended to ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory

equipment should be worn if material is to be sanded and/or sawed to avoid inhalation of airborne particles. If needed, use a NIOSH/MSHA approved respirator equipped with organic vapor cartridges and P100 filters. For emergencies and unknown concentrations, use supplied air respiratory protection or a positive-pressure, self-contained, breathing apparatus (SCBA).

Hand Protection

If product contact is anticipated, wear chemical resistant gloves.

Eye Protection

Wear safety glasses with side shields or goggles.

Skin Protection

If product contact is anticipated, wear protective clothing.

Other Data

Good personal hygiene and good housekeeping are important. Spilled material may cause the floor or contaminated area to become a safety hazard.

Section 9: Physical and Chemical Properties

Physical State Boiling Point

Solid Not applicable

Appearance Vapor Density

Concentric cylinder Not determined

Color Evaporation Rate

White\Tan Not applicable

Odor lbs VOC less water and exempt solvents

Pungent, Sulfur 0

Density Percent Volatile by Volume

16.24 lb/gl .06%

Specific Gravity pH

1.95 Not applicable

Section 10: Stability and Reactivity Data

Chemical Stability

This product is stable.

Incompatibility

Strong oxidizers, acids, and bases.

Hazardous Decomposition Products

Carbon dioxide, aldehydes, acids, and oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Section 11: Toxicological Information

<p>Information on toxicological effects</p> <ul style="list-style-type: none">• Acute toxicity:• LD/LC50 values that are relevant for classification: 84-74-2 dibutyl phthalate Oral LD50 8000 mg/kg (rat) Dermal LD50 20000 mg/kg (rabbit)• Primary irritant effect:• on the skin: Irritant to skin and mucous membranes.• on the eye: Irritating effect.• Sensitization: Sensitization possible through skin contact.• Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant• Carcinogenic categories• IARC (International Agency for Research on Cancer) None of the ingredients is listed.• NTP (National Toxicology Program) None of the ingredients is listed.• OSHA-Ca (Occupational Safety Health Administration) None of the ingredients is listed
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<p>Section 12: Ecological Information</p> <p>Ozone Depletion Potential No ozone depleting chemical(s) are present in this product.</p>

<p>Section 13: Disposal Considerations</p> <p>Method As the US Environmental Protection Agency (EPA), state, regional, and other regulatory agencies may have jurisdiction over the disposal of the waste generated, it is incumbent upon waste generators to learn of and satisfy all of the waste disposal requirements which affect them. The following US EPA Hazardous Waste Numbers are applicable to the unadultrated product if it enters the "waste stream". US EPA Hazardous Waste Numbers None</p>

<p>Section 14: Transport Information</p> <p>UN Number Not hazardous for transport</p> <p>Proper Shipping Name</p> <p>IMDG and ICAO/IATA: Not hazardous for transport</p> <p>Hazard Class Not regulated</p> <p>Packing Group Not regulated</p> <p>Marine Pollutant Component Cas RN</p>

BISPHENOL-A-EPICHLORHYDRIN, EPOXY RESIN 25068-38-6

ERG Guide Book Number

Not regulated

Special Precautions

Not regulated

Emergency Schedule (EMS) - FIRE

Not regulated

Emergency Schedule (EMS) - SPILL

Not regulated

Section 15: Other Regulatory Information

INTERNATIONAL REGULATIONS

United States TSCA: All ingredients are TSCA listed.

Canada DSL: All ingredients are either listed or exempt.

Canada NDSL: All ingredients are either listed or exempt.

EINECS: All the chemicals in this product are listed in the inventory.

Europe ELINCS: Not evaluated

Korea: Not evaluated

China Inventory: Not evaluated

Australia AICS: Not evaluated

Japan ENCS: Not evaluated

Philippines PICCS: Not evaluated Legend

TSCA: Toxic Substance Control Act

DSL: Domestic Substance List

NDSL: Non-Domestic Substance List

EINECS: EU Inventory of Existing Commercial Chemical Substances

ELINCS: EU List of Notified Chemical Substances

ECL: Existing Chemicals List

AICS: Inventory of Chemical Substances

ENCS: Existing and New Chemical Substances

PICCS: Philippines Inventory of Chemicals

US Federal Regulations

SARA 311/312

EPA Hazard Class:

Immediate: Yes

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Last Updated: 2013.8.14 16:00 pm

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