

MATERIALS SAFETY DATA SHEET

EDITION: 2.0 DATE: Nov. 19, 2020

1. Chemical and Enterprise Identification

1. Product Identifier

Product name: Epoxy resin

Chemical name: Liquid Epoxy Resin

CAS: 25068-38-6

Company: Guangzhou Yuebao Chemicals Technology Co., Ltd

Office (Guangzhou): 020-22097111 020-31420789 (fax)

Addr.: Rm.306, Block E, Science Park, No. 95, Daguan Road

Middle, Guangzhou, Guangdong Province, 510630, PRC

2. Overview of Hazards

Chemical hazard classification: Grade 3 of corrosive / irritative substances to skin, grade 2b of serious injury / irritative substances to eyes, grade 1 of allergic substances to skin, grade 2 of chronic hazards to water environment



Bidding content:

Symbol: exclamation mark, environmental hazard warning words: warning

Hazard warning message:

Cause slight skin irritation

Cause eye irritation

May cause skin allergy

Toxic to aquatic organisms with long-term and sustained effects

Hazard prevention measures:

Wear appropriate protective clothing and gloves

In case of contact with eyes or skin, wash immediately with plenty of water and consult a doctor

Cover the container tightly and place it in a well ventilated place to avoid release to the environment

Other hazards:--

3. Component/component information

Bisphenol a liquid epoxy resin

Synonym: --

CAS No.: 25068-38-6

Hazardous ingredients (percentage of ingredients): 100%

4. First aid measures

First aid methods for different exposure routes:

Inhalation: 1. Remove the pollution source or transfer the patient to fresh air. 2. If you still have discomfort, seek medical advice immediately.

Skin contact: 1. Rinse contaminated area with water and soap for 5 minutes or until contaminants are removed.

Eye contact:

1. Wipe off or inhale excess chemicals as soon as possible. 2. Immediately open the eyelids and gently rinse with flowing warm water for 15 minutes or until there is any contamination except. 3. See a doctor immediately.

Ingestion:

1. Give the patient 240 ~ 300 ml of water to dilute the compounds in the stomach. 2. If the patient has spontaneous vomiting, the patient's body should be tilted forward to reduce the risk of inhalation, and let him gargle and repeatedly supply water. 3. See a doctor immediately.

Most important symptoms and harmful effects: -

Protection for first-aid personnel: wear class C protective equipment to implement first aid in safe area.

Tips for doctors: --

5. Fire protection measures

1. Suitable for extinguishing agents: chemical powder, carbon dioxide, water mist, foam.
2. Special hazards that may be encountered during fire fighting: --
3. Special fire fighting procedures:
4. Be located in the windward to avoid toxic decomposition products.
5. Cool the storage tank or container exposed to fire with water mist.
6. 3. It is invalid to extinguish the fire with water column.
7. Special protective equipment for firefighters: Firefighters must wear air breathing apparatus, fire clothing and protective gloves.

6. Leakage Emergency Response

Personal precautions:

8. Restrict people to enter until the overflow area is completely cleaned up.
9. The trained personnel shall be responsible for the cleaning work.
3. Wear appropriate personal protective equipment.

Environmental precautions:

1. Ventilate the leakage area.
2. Remove all ignition sources.
3. Inform relevant government departments of occupational safety, health and environmental protection.

Cleaning method:

1. Don't touch the leakage.
2. Avoid spills into sewers or narrow spaces.
3. If safety permits, try to prevent or reduce the leakage.
4. Use soil, sand or similar stable and nonflammable materials that will not react with the leakage to block the leakage.
5. In case of a small amount of leakage, absorb it with absorbent that will not react with the leakage. The contaminated absorbent must be made in a suitable container with a cover and label.
6. In case of large amount of spills, contact the fire department, emergency treatment unit and supplier for assistance.

7. Handling and Storage

Management:

1. Keep away from sparks, open fire and other ignition sources when using, and post no smoking signs in the working area. 2. Emergency response equipment for fire fighting and leakage treatment shall be provided.

Storage:

Store in a cool, dry place with good ventilation and sunlight, away from heat sources, ignition sources and incompatibilities.

8. Contact control and personal protection

Engineering control:

1. Use a non sparking, grounded ventilation system and separate it from the general exhaust system.
2. Exhaust gas shall be directly discharged to the outdoor and appropriate measures shall be taken for environmental protection.
3. Provide sufficient fresh air to supplement the air discharged from the exhaust system.

Control parameters			
Average daily hourly volume in eight hours Permissible concentration TWA	Short time average Permissible concentration STEL	Maximum allowable concentration CEILING	Biological indicators BEI
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Personal protective equipment: Respiratory protection: activated carbon mask. Hand protection: impervious gloves. Eye protection: 1. Protective mask. 2. Chemical safety goggles. Skin and body protection: Rubber texture protective clothing, overalls, boots.			
Health measures: 1. Take off the contaminated clothes as soon as possible after work, and wear them after washing. 2. No smoking or eating in the workplace. 3. Wash hands thoroughly after handling. 4. Keep the workplace clean.			

9. Physical and chemical properties

Appearance: liquid, colorless or light yellow smell: None

Olfactory threshold: - melting point: -

PH: - boiling point / boiling point range: -

Flammability (solid, gas): - flash point: > 252 °C

Test method: () open cup (V) close cup

Decomposition temperature: -

Spontaneous combustion temperature: - explosion limit: -

Vapor pressure: - vapor density: -

Density: 1.16 (water = 1) solubility: almost insoluble (water)

Octanol / water partition coefficient (log Kow): - volatilization rate: -

10. Stability and reactivity

Stability: stability under normal conditions.

Possible hazardous reactions under special conditions: 1. Peroxides, strong oxidizers: violent reactions, increasing the risk of fire and explosion.

Conditions to be avoided: static electricity, sparks, flames and other ignition sources.

Substances to be avoided: 1. Strong oxidizers. 2. Strong oxidizers. 3. Amines.

Hazardous decomposition products: CO and CO₂ produced by thermal decomposition.

11. Toxicological information

Route of exposure: skin, inhalation, eyes, ingestion

Symptoms: headache, nausea, vomiting

Acute toxicity:

Inhalation: -

Skin: direct contact can cause slight irritation. Eyes: contact with eyes is irritating.

Ingestion: stimulate the pharynx, esophagus and stomach.

LD₅₀ (test animals, absorption pathway): >5000mg/kg (rats, ingestion)

Slow or long term toxicity: repeated or long-term exposure may cause allergies or dermatitis.

Special effect: -

12. Ecological information

Ecotoxicity: LC₅₀ (FISH): 3.1 mg / L / 96h

EC₅₀ (invertebrate): 1.4 ~ 1.7 mg / L / 48H

BCF: 200 ~ 3000

Persistence and degradation: poor biodegradability.

Bioaccumulation:-

Mobility in soil: release into soil, low mobility.

Other adverse effects:-

13. Waste disposal

Waste disposal method:

1. Refer to relevant laws and regulations.
2. Store the waste to be treated according to the storage conditions.
3. Deliver the remaining and non recyclable solution to the licensed company for disposal.

14. Transport information

UN No.: 3082

UN transportation Name: hazardous substances for the environment, liquid, not otherwise specified

Classification of transport hazards: category 9 other hazardous substances

Packing type: III

Marine pollutants (yes / no): Yes

Special transportation methods and precautions: -

15. Regulatory information

Applicable regulations:

Rules for occupational safety and health facilities - marking and general rules for hazardous chemicals

Road traffic safety rules - permissible exposure standards for workplaces

Standard for storage, removal and treatment methods and facilities of industrial waste.

16. Other information

This safety data sheet is compiled in accordance with the requirements of the United Nations "globally harmonized system of classification and labelling of chemicals" (fourth Revised Edition). All the information in this data sheet is based on the current knowledge of our center. Therefore, we can not guarantee the correctness of all the information in this data sheet. It is only for users' reference. The user of safety data sheet should judge the rationality of relevant information according to the purpose of use. We are not responsible for any damage in the operation, storage, use or disposal of the product.