

Safety Data Sheet

1. Identification of the Substances/Mixture and of the Company/Undertaking

1.1 Product Identifier

Trade Name: Epoxy steel

Product Code: 812004

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advises Against

Identified Use: Consumer uses; Bonding

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer/Supplier: Huzhou Longtong Chemical Co., Ltd.

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2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Serious eye damage/eye irritation Category 2

Skin Corrosion/Irritation Category 2

Sensitisation, Skin Category 1

Hazardous to the aquatic environment, long-term hazard Category 2

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Hazard Pictograms:



Signal Word: Warning

Hazard Statement(s):

H315: Cause mild skin irritation.

H317: May cause an allergic skin reaction.

H319: Cause serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352+P362: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

P333+P313: IF SKIN irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other Hazards

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

PBT/vPvB: Not meets.

3. Composition/Information on Ingredients

3.2 Mixture

Description of the mixture: Mixture of Epoxy resin, Pentaerythritol propoxylate, 3-Mercapto-1,2-propanediol and 2,4,6-Tri(dimethylamino methyl)phenol.

Hazardous Ingredients:

Components Name	CAS#	EINECS#	Index No.	Weight %	CLP Classification
Epoxy resin	25068-38-6	500-033-5	603-074-00-8	50	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411
2,4,6-Tri(dimethyl aminoethyl)phenol	90-72-2	202-013-9	603-069-00-0	8	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315

4. First-Aid Measures

4.1 Description of First Aid Measure

General Notes: Route of exposure: Inhalation, ingestion, or absorbed by skin.

Following Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Carefully lift upper and lower eyelids to insure thorough rinsing. Get medical aid immediately.

Following Skin Contact: In case of contact, immediately remove contaminated clothing and shoes. Flush skin, hair and nails with soap and water thoroughly. Get medical aid. Wash clothing before reuse.

Following Inhalation: If inhaled, remove to fresh air and administer high flow humidified oxygen as needed.

Following Ingestion: If swallowed, do not induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

Acute Symptoms: Irritating to eyes mucous membrane and skin. Inhaled high concentration of vapor may cause central nervous system effects characterized by headache, nausea and vomiting.

Delayed Symptoms: Prolonged or repeated skin contact may cause dermatitis.

4.3 Indication of Any Immediate Medical Attention and Special Treatment needed

Notes to Physician: Treat symptomatically.

5. Firefighting Measures

5.1 Extinguishing Media:

Suitable Extinguishing Media: Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Unsuitable Extinguishing Media: water.

5.2 Special Hazards Arising from the Substance or Mixture

Hazards Combustion Products: Toxic gases and fume, such as carbon monoxide, carbon dioxide, nitrogen oxides, etc.

5.3 Advice for Firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency personnel: Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For Emergency Responders: Wear anti-solvents gloves, boots and general protective clothing. Eliminate of ignition. Ventilate enclosed areas. Stay upwind.

6.2 Environmental Precautions: Should not be released into the environment. Prevent the product from entering drains. If large quantities enter a waterway, advise local authorities.

6.3 Methods and Materials for Containment and Cleaning Up: Soak up with inert absorbent material like clay or vermiculite. Use a non-spark tool and place in marked containers for proper disposal. Provide ventilation.

6.4 Reference to Other Sections

Personal protection reference to section 8.

7. Handling and Storage

7.1 Precautions for Safe Handling:

Protective measures: Wear personal protective clothing and equipment. Use only at well-ventilated area.

Advice on general occupational hygiene: Avoid contact with eyes and /or skin. Wash hands thoroughly after handing.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Technical Measures and Storage Conditions:

Packaging materials: Plastic drums/bottles/boxes

Requirements for storage rooms and vessels: Dry, cool and well ventilated storage rooms. Storage area should be equipped with right material to collect leakage.

Further information on storage conditions: Keep containers tightly closed and properly labeled. Do not store with strong acids, oxidants, nitrates, nitrites and organic solvents.

7.3 Specific End Use:

Recommendations: Bonding metals, aluminum profiles, ceramics, glass, plastic, etc.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limit(s): No data available.

DNEL/PNEC: No data available.

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.2.2 Personal Protective Equipment

Respiratory Protection: No special requirements with normal use. Wear a respiratory protection program that meets European Standard EN 143 if exposure limits are exceeded.

Eye Protection: Wear chemical safety glasses with side-shields conforming to EN 166.

Hand Protection: Wear anti-solvents gloves.

Skin Protection: Wear working clothing.

Hygiene Measures: Avoid contact with skin, eyes and clothing. Wash hands immediately after handling the product.

8.2.3 Environmental Exposure Controls: Avoid release to the environment.

9. Physical and Chemical Properties

Appearance:	Transparent Liquid
Odor:	Slightly irritant odor
Color:	Colorless
Odor threshold:	N/A
pH:	N/A
Melting Point/Freezing Point:	N/A
Initial Boiling Point/Range:	N/A
Flash Point:	N/A
Evaporation Rate:	N/A
Upper/Lower Flammability or Explosion Limits:	N/A

Vapor Pressure:	N/A
Vapor Density	N/A
Relative Density:	>1 (Water=1)
Relative Vapor Density(Air=1):	N/A
Solubility:	N/A
Partition coefficient(n-octanol/ water):	N/A
Auto-combustion Temperature:	Insoluble in water
Decomposition Temperature:	N/A
Viscosity:	N/A

10. Stability and Reactivity

Reactivity: No data available.

Chemical Stability: Stable under suggest condition.

Possibility of Hazardous Reactions: No reactive hazard has been reported.

Conditions to Avoided: Ignition sources, excess heat, confined spaces, electrical sparks, exposure to flame.

Incompatible Materials: Strong acids, oxidants nitrates, nitrites and organic solvents.

Hazardous Decomposition Products: Bisphenol-A, phenol, ammonia, sulfureted hydrogen, micromolecular alkane.

11. Toxicological Information

Acute Toxicity: Slightly toxic.

$ATE_{mix}(Oral) > 2000 \text{mg/kg}$ (Rat);

$ATE_{mix}(Dermal) > 2000 \text{mg/kg}$ (Rat).

Skin Corrosion/Irritation:

Tri(dimethylamino methyl)phenol (CAS#90-72-2): Draize test, rabbit, shin, 2 mg/24H, Severe.

Serious Eye Damage/Eye Irritation:

Tri(dimethylamino methyl)phenol (CAS#90-72-2): Draize test, rabbit, eye, 50 ug/24H, Severe.

Respiratory or Skin Sensitization: No data available.

Carcinogenicity: Not contained any ingredients at a concentration of 1.0% or more that are listed as carcinogen by IARC.

Germ Cell Mutagenicity: No data available.

Reproductive Toxicity: No data available.

STOT - Single Exposure: No data available.

STOT - Repeated Exposure: Prolonged or repeated skin contact may cause dermatitis.

Aspiration Hazard: No data available.

12. Ecological Information

Toxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB Assessment: Neither a PBT nor vPvB product.

Other Adverse Effects: Toxic to aquatic life with long lasting effects. Avoid release to the environment.

13. Disposal Considerations

Waste treatment methods

Product/Packaging Disposal:

Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

14. Transport Information

Land Transport ADR/RID

Not regulated for transport or dangerous goods.

Maritime Transport IMDG

Not regulated for transport or dangerous goods.

Air Transport IATA/ICAO

Not regulated for transport or dangerous goods.

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture EU Regulations

Not listed by Regulation (EC) 1907/2006/EC concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.

Listed by Regulation (EC) No 1272/2008 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations.

Information according 1999/13/EC about Limitation of Emission of Volatile Organic Compounds (VOC-guideline): 150mg C/Nm³.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this Mixture by the supplier.

16. Other Information

Abbreviations:

CAS# – Chemical Abstract Service number - used to uniquely identify chemical compounds

EINECS# – European Inventory of Existing Commercial chemical Substances)

IARC - International Agency for Research on Cancer

ATE_{mix} - Acute Toxicity Estimate of Mixture

Further Information:

·This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

·This safety data sheet was prepared in accordance with REACH (EC) No 1907/2006, and Annex II and Regulation (EC) No. 1272/2008 (CLP) –Europe.

Department Issuing SDS:Huzhou Longtong Chemical Co.,Ltd.

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This SDS Service is provided by ZHEJIANG LANDER STANDARD TECHNOLOGY CO., LTD.

Signed for and on behalf of

Lander Testing Lab

Xuanhong Yu

Chemistry Lab Engineer

Date: April 6, 2016



*****End*****