

MATERIAL SAFETY DATA SHEET

1、Product and Company Identification

Product name : EPOXY RESIN
Synonyms :
Chemical Formula :
Product Codes : BE188, BE188EL, BE188LV, BE188LI
Supplier Information : CHANG CHUN PLASTICS CO., LTD. ADDRESS : NO. 301, SONG KIANG RD., 7th FL., TAIPEI, 104 TAIWAN TEL : 886-2-2500-1800 ; FAX : 886-2-2501-8018 http://www.ccp.com.tw/
Emergency phone numbers : TEL : 886-2-2500-1800

2、Composition / Information on Ingredients

Ingredient	CAS Number	Percent (by weight)
Epoxy Resin	25068-38-6	100%

3、Hazards Identification

Emergency Overview : --
Adverse Human Health Effects : Cause eye and skin irritation, may cause central nervous system depression
Environmental Effects : --
Physical and Chemical Hazards : --
Specific Hazards :

4、First-Aid Measures

Inhalation : Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion : No adverse effects anticipated by this route of exposure incidental to proper industrial handling
Skin Contact : Immediately flush skin with water for at least 15 minutes and get medical aid immediately.
Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid if irritation develops or persists .
Protection of First-aiders : Protective clothes and glasses
Notes to Physician : No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reaction of the patient

5、Fire-Fighting Measures

Extinguishing Media : foam, powder, CO2
Fire and Explosion Hazards : No information available
Special Firefighting Procedures : No information available

Special Equipment for the Protection of Firefighters : Use a positive-pressure self-contained breathing apparatus and full protective clothing for chemicals.

6、Accidental Release Measures

Personal Precautions : Wear adequate personal protective equipment.
Environmental Precautions : Ventilate area
Methods for Cleaning Up : Contain spills with earth, sand, or similar stable, non-combustible material

7、Handling and Storage

Handling : Keep material away from sparks, flames, and other ignition sources.
Storage : Store in cool, dry, well-ventilated area

8、Exposure Controls / Personal Protection

Engineering Measure : Exhaust directly to the outside. Treatment of exhaust emission to prevent environmental controlling may be required.
Control parameters : <ul style="list-style-type: none">Limit values :Biological Standards :
Personal Protective Equipment : Eyeglasses, gloves, helmet, mask, safety shower, eye wash fountain. <ul style="list-style-type: none">Respiratory Protection : dust maskHand Protection : Chemical resistant gloves. (Butyl rubber , Polyvinyl alcohol)Eye Protection : wear safety gogglesSkin and Body Protection : Wear appropriate protective gloves and clothing to prevent and minimize contact with skin.
Specific Hygiene Measures : Wash hand before eating and drinking.

9、Physical and Chemical Properties

Physical State : Liquid (clear liquid)	Form : liquid
Color : Colorless to slight yellow.	Odor : aromatic odor
pH : ND	Boiling Point/Boiling Range : ND
Decomposition Temperature : ND	Flash Point & Method Used : 260°C
Auto Ignition Temperature : ND	Explosion Properties : No information available
Vapor pressure : NA	Vapor density : <1.0
Density : 1.16-1.18(H ₂ O=1)	Solubility : Insoluble

10、Stability and Reactivity

Stability : Stable under normal conditions.
Possible Hazardous Reactions Occurring under Specific Conditions : ND
Conditions to Avoid : Keep away from sources of ignition, heat, high temperature.
Materials to Avoid : strong oxidizer, caustics, acid.
Hazardous Decomposition Products : --

11、Toxicological Information

Acute toxicity : Acute Oral Toxicity(LD50/rat) : >5,000mg/kg Acute Skin absorption(LD50/rabbit) : 20,000mg/kg
Local effects : --
Sensitization : No relevant information found.
Chronic Toxicity or Long Term Toxicity :
Specific effects : No Data Available

12、Ecological Information

Possible Environmental Effects, Behavior and Fate : Degradation: Theoretical oxygen demand(ThoD) is calculated to be 2.35 p/p. In the atmospheric environment, material is estimated to have a tropospheric half-life of 1.92 hr. Biodegradation reached in Modified Zahn-Wellens/EMPA Test(OECD Test NO. 302B) after 28 days :12%. 20 Day biochemical oxygen demand (BOD20) is < 2.5%. Ecotoxicity: Material is moderately toxic to aquatic organisms on an acute basis (LC50 / EC50 between 1 and 10 mg/L in most sensitive species). Acute LC50 for water flea Daphnia magna is 1.3mg/L. Acute LC50 for fathead minnow (Pimephales promelas) is 3.1mg/L. Toxicity to aquatic species occurs at concentrations greater than water solubility. Maximum acceptable toxicant concentration (MATC) in water flea Daphnia magna is 0.55 mg/L. Growth inhibition threshold in bacteria is >42.6 mg C/L. Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test no.209) is >100 mg/L

13、Disposal Considerations

Recommended Methods for Safe and Environmentally Preferred Disposal :

1. Disposal by controlled incineration in a properly equipped facility may be acceptable.
2. Review federal, provincial and local government requirements prior to disposal.

14、Transport Information

International regulations : ND
UN classification number : ND
Specific Precautionary Transport Measures and Conditions : NA

15、Regulatory Information

Applicable Regulations : Hazard labels: Xi irritant R-phrases: R36/38 Irritating to eyes and skin. R43 May cause sensitization by skin contact S-phrases: S26 In case of contact with eyes,rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water and soap. S37/39 wear suitable gloves and eye/face protection.
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16 · Other Information

NFPA Ratings : --
Label Hazard Warning : --
Literature References : 1.NIOSH/OSHA,Occupational Health Guidelines for Chemical Hazards,1981 2.Material Safety Data Sheet (of the raw material manufacture)
Date the MSDS was prepared:2008.02.20