

# MATERIAL SAFETY DATA SHEET

## 1、Product and Company Identification

Product name : Bisphenol F type Epoxy Resin
Synonyms : --
Chemical Formula : CH <sub>2</sub> OCHCH <sub>2</sub> -〔OC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> OCH <sub>2</sub> CHOHCH <sub>2</sub> 〕 <sub>n</sub> -OC <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> OCH <sub>2</sub> CHOCH <sub>2</sub>
Product Codes : BFE-170
Supplier Information : Chang Chun Plastic Co., Ltd.. Head Office:No.301, 7th FL, Songkiang RD, Taipei, Taiwan
Emergency phone numbers : 886-3-5981511

## 2、Composition / Information on Ingredients

Ingredient	CAS Number	Percent (by weight)
Epoxy Resin BFE-170	28064-14-4	100%

## 3、Hazards Identification

Emergency Overview : --
Adverse Human Health Effects : Cause eye and skin irritation, may cause central nervous system depression
Environmental Effects : No information available
Physical and Chemical Hazards : No information available
Specific Hazards : No information available

## 4、First-Aid Measures

Inhalation : If feel not comfortable, 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 or small amount of ethanol 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 : Use water hydrants.

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 : No information available

Environmental Precautions : Store it well under good condition, there is no particular environmental hazard.

Methods for Cleaning Up : If spill: Use absorbent,( example: sand, woodflour) and sweep the floor, dispose all waste according to government regulations.

#### 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.

Control parameters : No information available

- Limit values : No information available
- Biological Standards : No information available

Personal Protective Equipment : Eyeglasses, gloves, helmet, mask, safety shower, eye wash fountain.

- Respiratory Protection : Mask
- Hand Protection : Chemical resistant gloves. (Butyl rubber , Polyvinyl alcohol)
- Eye Protection : Goggle
- Skin 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 : Yellowish Transparent	Form : Liquid
Color : Colorless to slight yellow.	Odor : not obvious
pH : No information available	Boiling Point/Boiling Range : No information available
Decomposition Temperature : No information available	Flash Point & Method Used : >150 ° C /by method ASTM D93
Auto Ignition Temperature : No information available	Explosion Properties : No information available
Vapor pressure : No information available	Vapor density : No information available
Density : 1.17 kg/l(25 ° C )	Solubility : Not soluble in water

#### 10、Stability and Reactivity

Stability : Stable under normal conditions.

Possible Hazardous Reactions Occurring under Specific Conditions : No information available

Conditions to Avoid : Keep away from sources of ignition, heat, high temperature.

Materials to Avoid : strong oxidizer, caustics, acid.

Hazardous Decomposition Products : No information available

#### 11、Toxicological Information

Acute toxicity : Acute Oral Toxicity(LD50/rat) : >5,000mg/kg  
Acute Skin absorption(LD50/rabbit) : 20,000mg/kg

Local effects : No information available

Sensitization : No information available

Chronic Toxicity or Long Term Toxicity : No information available

Specific effects : No information available

#### 12、Ecological Information

Possible Environmental Effects, Behavior and Fate : No information available

### 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 : US DOT  
Hazard Class : 9  
Packing Group : III  
IMDG : 9

UN classification number : 3082

Specific Precautionary Transport Measures and Conditions : No information available

### 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.

### 16、Other Information

NFPA Ratings : No information available

Label Hazard Warning : No information available

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: Jan.22 ,2008. by QA Ernest Hsu

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