

# CHEMFIX



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** CHEMFIX PURE EPOXY  
**Company:** Chemfix Products Limited- Mill Street East, Dewsbury, West Yorkshire, WF12 9BQ  
**Chemical Name & Synonyms:** 2 COMPONENT CHEMICAL ANCHOR GROUT CONTAINING EPOXY RESIN  
AND MANNICH BASE EPOXY HARDENER  
**For Information:** 01924 453886 (9.00 AM - 5.00 PM)  
**In an Emergency:** As above

### 2. HAZARDS IDENTIFICATION

**Resin:** Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **Hardener:** Causes burns. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### RESIN

Hazardous Substance	CAS Number	Concentration Range	Warning Symbol	Risk Phrases
Bisphenol A/F Epoxy Resin	40216-08-8	50- 70%	Xi, N	R36/38, R43
1,6-Hexanediolglycidylether	16096-31-4	1 – 10%	Xi	R36/38, R52/53

#### HARDENER

Hazardous Substance	CAS Number	Concentration Range	Warning Symbol	Risk Phrases
Paratertiarybutylphenol	98-54-4	10 – 30%	Xi	R36/37/38
Alpha, Alpha-Diamino-m-Xylene	1477-55-0	< 7.95%	Xn, C	R20/22, R34, R43, R52/53
Trimethylhexamethylenediamine	25620-58-0	1 – 10%	Xn, C	R22, R34, R43, R52/53
Nonylphenol Nonylphenol branched	25154-52-3	1 – 5%	Xn, C, N	R62, R63, R22, R34, R50/53
2-Piperazin-1-ylethylamine	140-31-8	1 – 5%	Xn, C, N	R21/22, R34, R43, R52/53
2,4,6-Tris(Dimethylaminomethyl)phenol	90-72-2	1 – 10%	Xn, Xi	R22, R36/38

### 4. FIRST AID MEASURES *Summon immediate medical assistance on contact with skin, eyes, inhalation or ingestion.*

**Eye:** Irrigate with clean water for at least 15 minutes. Seek immediate medical attention.  
**Skin:** Remove from skin with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.  
**Ingestion:** Drink plenty of water. Seek medical attention. DO NOT INDUCE VOMITING.  
**Inhalation:** Move patient to fresh air and allow to rest. If patient is slow to recover or unconscious, obtain medical assistance immediately.  
*First Aiders should protect themselves from exposure (Ref to Section 8).*

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry powders, CO<sub>2</sub> and Foam.  
**Exposure Hazards:** Sealed containers, heated, can pressurise leading to explosion. In combustion emits acrid black smoke and irritating fumes.  
**Fire Fighting Equipment:** Wear self contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Do not discharge into sewers. Scrape up and place into a suitable container for disposal. Wash area with water.  
*Refer to section 5, 8 and 13 for Protective Measures and Disposal.*

## **7. HANDLING AND STORAGE**

**Resin:** Keep away from heat and sources of ignition. Ensure there is sufficient ventilation of the area. Store in cool, well ventilated area.

**Hardener:** Keep away from heat and sources of ignition. Ensure there is sufficient ventilation of the area. Store in cool, well ventilated area.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Workplace exposure limit – Paratertiarybutylphenol WEL (8 Hr exposure limit) 0.08ppm, Alpha, Alpha-Diamino-m-Xylene WEL (8 Hr exposure limit) 0.1ppm

**Respiratory:** Ensure good ventilation to minimise exposure to vapours.

**Ingestion:** Unlikely during normal use.

**Skin Protection:** Wear gloves and impermeable protective clothing.

**Eye Protection:** If splashing can occur, goggles should be worn. Ensure eye bath is to hand.

## **9. PHYSICAL/CHEMICAL PROPERTIES**

<b>Resin</b>		<b>Hardener</b>	
Appearance	Thick white Paste	Appearance	Thick red Paste
Odour	Barely perceptible	Odour	Characteristic ammoniacal
Density	1.20g/cm <sup>3</sup>	Density	1.50g/cm <sup>3</sup>
Flash Point	> 100°C	Flash Point	> 100°C)
Explosive properties	N/D	Explosive properties	N/D
Autoflammibility	N/D	Autoflammibility	N/D
Solubility	Insoluble in water	Solubility	Insoluble in water

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Materials to Avoid - Hardener:** Oxidising agents and acids.

**Resin:** Amines.

**Hazardous Decomposition:** Emits acrid smoke and irritating fumes of carbon and nitrogen oxides when heated to decomposition.

**Hazardous Polymerisations:** None.

## **11. TOXICOLOGICAL INFORMATION**

**Hardener:** contains 2,4,6-Tris(dimethylaminomethyl)phenol. Oral (rat) LD50:1200mg/m<sup>3</sup>, SKIN (rat) LD50:1280mg/m<sup>3</sup>

**Eye:** Causes burns.

**Skin:** Irritation and redness may occur. The possibility of allergic sensitisation should be considered.

## **12. ECOLOGICAL INFORMATION**

Do not discharge into drains or the environment.

## **13. DISPOSAL CONSIDERATIONS**

In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations. Small quantities of resin and hardener may be reacted together, allowed to cure and then disposed as solid waste.

## **14. TRANSPORT INFORMATION**

### **RESIN**

UN No: 3077

Packing group: III

ADR Class: 9

Shipping name: Environmentally hazardous substance, solid, N.O.S. (Bisphenol- A/F-Epoxy resin)

### **HARDENER**

UN No: 1759

Packing group: III

ADR Class: 8

Shipping name: corrosive solid, N.O.S. (Alpha, Alpha-Diamino-m-xylene)

## **15. REGULATORY INFORMATION**

### **RESIN**

Irritant, Dangerous for the environment.

Risk Phrases	(R36/38)	Irritating to eyes and skin.
	(R43)	May cause sensitisation by skin contact.
	(R51/53)	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	(S2)	Keep out of reach of children.
	(S24)	Avoid contact with skin.
	(S37)	Wear suitable gloves.
	(S61)	Avoid release to the environment. Refer to special instructions/safety data sheets.

### **HARDENER**

Corrosive

Risk Phrases	(R34)	Causes burns.
	(R43)	May cause sensitisation by skin contact.
	(R51/53)	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	(S1/2)	Keep locked up and out of the reach of children.
	(S26)	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	(S36/37/39)	Wear suitable protective clothing, gloves and eye/face protection.
	(S45)	In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible)

## **16. OTHER INFORMATION**

Risk phrases used in section 2 and not previously mentioned.:

- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R20/22 - Harmful by inhalation and if swallowed.
- R21/22 - Harmful in contact with skin and if swallowed.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 - Possible risk of impaired fertility
- R63 - Possible risk of harm to the unborn child
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Our ref:** Chemfix Pure Epoxy Japanese Formulation

**Date of Preparation:** January 2008

**Prepared By:** P Wadsworth

The information contained within this document is furnished without warranty of any kind. Users should consider this data only as a supplement of other information gathered by them and make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees customers.

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