

## MATERIAL SAFETY DATA SHEET

### 1 Chemical product and Company Identification

#### ***FFD PATCH REPAIR/FFD EPOXY MORTAR/FFD GROUT/ LIGHT WEIGHT MORTAR HARDENERS***

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### 2 Product Composition and Properties

#### **CHEMICAL CHARACTERISATION**

Hardener based on amines for epoxy systems

Components	%Wt	Cas No	Symbols Risk Phrases
BUTYLPHENOL(PARA-TERT)	25-50%	98-54-4	N;R51/53 Xi R36/37/38
ALPHA,ALPHA-DIAMINO-M-XYLENE	25-50%	1477-55-0	C; R35 R43-R52-R53 Xn; R20/22
TRIMETHYLHEXAMETHYLEN DIAMINE	5-10%	25620-58-0	C;R34 R43 R52/53 Xn;R22

### 3 Hazard Identification

Human health Hazards;	May cause sensitisation by skin contact Harmful by inhalation,in contact with skin and if swallowed. Causes burns
Safety Hazards;	Not classified as flammable but will burn.
Environmental hazards;	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

### 4 First -Aid Measures

**4.1 Inhalation** : Remove from source of exposure. If symptoms persist, obtain medical advice.

**4.2 Skin Contact:** Remove contaminated clothing. Wash with soap and rinse with plenty of water.

**4.3 Eye Contact:** Irrigate with water for at least 15 minutes, get prompt medical attention

**4.4 Ingestion:** Seek medical attention immediately

### 5 Fire Fighting Measures

#### **5.1 Suitable Extinguishers**

Carbon Dioxide CO2 BLACK

Foam CREAM

Dry Powder BLUE

Water spray in a fog

**5.2 Specific Hazards** Decomposition: Carbon Monoxide, may decompose to form Cyanide and Nitrous oxide.

**5.3 Special Precautions**

Use Self contained breathing apparatus

**5.4 Unsuitable Extinguishing media**

Water in a jet

**6 Accidental Release Measures**

**6.1 Exposure Controls:** Do not allow spill to enter drains or water courses and evacuate area.

**6.2 Personal Protection:** Wear impervious overalls and gloves, suitable eye protection to avoid splashes.

Wear self-contained breathing apparatus.

**6.3 Disposal Considerations:** Absorb in inert material such as sand or absorbent granules, pick up and place in open containers. Remove to a safe open area for evaporation. Dispose of by incineration.

**7 Handling And Storage**

**7.1 Handling:** Ensure adequate ventilation. Avoid skin and eye contact.

**7.2 Storage:** Store in cool, dry conditions indoors. Store in closed labelled containers.

**7.3 Storage temperature** Ambient

**7.4 Storage class (VCI)** 8

**8 Exposure Controls**

**Occupational exposure** NONE ESTABLISHED

**Engineering control measures** Ensure adequate ventilation in confined area

**Hygiene measures** Do not reuse soiled clothes. Wash hands before eating and drinking.

**Respiratory protection** If risk of inhalation wear respirator with organic vapour cartridge and built in particulate filter NPF 20.

**Hand protection** Neoprene or nitrile rubber gloves.

**Eye Protection** Monogoggles

**Body Protection** Protective suit and heavy duty work boots.

**9 Physical and Chemical Properties**

Appearance: Liquid pale yellow

Smell: Amine like

Ph 8.5-11

Boiling Point/ range: Ca. 200°C

Flash point: >140°C

Autoflammability: 250°C

Vapour pressure: <10Pa at 25°C

Relative Density: 1040Kg/m<sup>3</sup> at @25°C

Solubility/Miscibility in water: 567mg/l

Evaporation rate

Viscosity: 0.5-0.7 Pa.s @25°C

VOC Value (2004/42/EC) ; 0 g/l

### **10 Stability and Reactivity**

**Stability;** Stable. Hygroscopic.

**Materials to avoid ;** Strong acids and oxidising agents

**Hazardous decomposition products;** No hazardous decomposition products when handled and stored correctly.

### **11 Toxicological Information**

**Acute toxicity oral:** Moderately toxic,  $200 < LD_{50} \leq 2000$  mg/Kg.

**Acute toxicity Dermal:** Moderately toxic,  $400 < LD_{50} \leq 2000$  mg/Kg.

**Acute toxicity Inhalation:** Moderately toxic,  $1 < LD_{50} \leq 5$  mg/l.

**Skin irritation:** Corrosive

**Skin sensitisation :** Expected to be a skin sensitiser.

**Eye irritation :** Corrosive

**Human effects:** See section 4 regarding acute effects to humans.

### **12 Ecological Information**

**Ecotoxicity :** Ecotoxicological data has not been determined specifically for this product, information given is based on knowledge of the components.

Acute toxicity fish: Slightly toxic, LC/EC/IC 50  $\leq 100$  mg/l.

Acute toxicity invertebrates; Slightly toxic LC/EC/IC 50  $\leq 100$  mg/l.

Acute toxicity algae; Very toxic LC/EC/IC 50  $\leq 1$  mg/l.

Sewage Treatment: Practically non toxic, LC/EC/IC 50  $> 100$  mg/l

**Mobility;** Sinks in water

**Persistence/degradability:** The solvent is biodegradable, but the product contains components that are persistent in the environment.

**Bioaccumulation:** Contains components with the potential to bioaccumulate.

### **13 Disposal Considerations**

**Product disposal:** Dispose in accordance with local Authority Regulations  
Incinerate through a licensed site

**Container disposal:** Empty contaminated packs as far as possible  
Do not discharge into drains or watercourses

### **14 Transport Information**

#### **Road /Rail transport ADR/RID**

Class	8
Classification code	C7
Packing group	II
TREMCARDS C8_BL	
Hazard symbol	Corrosive substance 8
Proper Shipping name	AMINES, LIQUID, CORROSIVE N.O.S
Kemler number	80
UN No.	2735

#### **Maritime Transport IMDG/GGVSea**

UN No. 2735

IMDG Code	8
Packing group	II
Hazard symbol	Corrosive substance
Marine pollutant	No
Proper shipping name	AMINES, LIQUID, CORROSIVE N.O.S

**Air transport ICAO/ IATA and IATA-DGR**

UN No.	2735
Class	8
Packing group	II
Hazard symbol	Corrosive substance
Proper shipping name	AMINES, LIQUID, CORROSIVE N.O.S

**15 Regulatory Information****EC Label name**

ALPHA, ALPHA-DIAMINO-M-XYLENE Cas No 1477-55-0

TRIMETHYLHEXAMETHYLEN DIAMINE Cas No 25620-58-0

**EC classification** Corrosive. Dangerous for the environment.**Hazard symbols:**

C-CORROSIVE



N – DANGEROUS FOR THE ENVIRONMENT

**R- Phrases****R35** causes burns**R20/21/22** Harmful by inhalation, in contact with skin and if swallowed.**R43** May cause sensitisation by skin contact**R51/53** Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.**R20/22** Harmful by inhalation and if swallowed**R37** Irritating to respiratory system**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 soap and water.**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 product label where possible).**S57** Use appropriate container to avoid environmental contamination.**S61** Avoid release to the environment. Refer to special instructions/ safety data sheets.

**EC Directives:** Dangerous Substances Directive, 67/548/EEC & adaptations.  
Dangerous Preparations Directive, 1999/45/EC.  
Safety Data Sheets Directive, 91/155/EEC

**Statutory Instruments;** Chemicals (Hazard Information & packaging for  
Supply) Regs 2002.  
Control of Substances Hazardous to health Regs 1999  
Environmental Protection (duty of care) Regs 1991

### **16 Other Information**

This safety data sheet has been prepared in accordance with CHIP3. Text in each section has changed and the section order/ headings are in line with the requirements of CHIP3.

This data sheet is to be of assistance only, users are obliged to provide their own assessment of work place risk as required by other health and safety legislation.