

## SAFETY DATA SHEET

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

Product name: **2-TON CLEAR EPOXY HARDENER**  
 Supplier: ITW Devcon  
 Shannon Industrial Estate Brunel Close, Park Farm  
 Ind. Est.,  
 Co. Clare, Ireland. Wellingborough, Northants  
 NN8 6QX  
 Emergency telephone number: 353(61)471299 01933 675299  
 Fax No: 353(61)471285 01933 670800

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation	Formulated product				
Chemical Name	CAS-No	EEC-No	Class	Weight %	
2-PIPERAZINE-1-YLETHYLAMINE	140-31-8	612-105-00-4	Xn; R21/22 C; R34 R43	20- 50	
Nonylphenol	25154-52-3	246-670-0	C;R22 R34	30-60	

## 3. HAZARDS IDENTIFICATION

Most important hazards: C - Corrosive.  
 Specific hazards Harmful in contact with skin and if swallowed.

## 4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.  
 Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician after significant exposure.  
 Skin contact: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.  
 Eye contact: Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.  
 Ingestion: Do not induce vomiting. Drink plenty of water. Obtain medical attention. If a person vomits when lying on his back, turn over on his side.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: dry chemical.foam.Carbon Dioxide (CO<sub>2</sub>).  
 Extinguishing media which must not be used for safety reasons:  
 Do not use a solid water stream as it may scatter and spread fire.  
 Special protective equipment for firefighters: Cool containers / tanks with water spray, In case of fire, wear a self contained breathing apparatus.  
 Specific methods: Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment  
 Environmental precautions: Do not let product enter drains  
 Methods for cleaning up: Soak up with inert absorbent material.Shovel into suitable container for disposal

## 7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas.Avoid contact with skin and eyes  
 Storage: Store at room temperature in the original container.Keep container tightly closed

Product name: **2-TON CLEAR EPOXY  
HARDENER**

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits (Ref: British COSHH - EH40):

2-PIPERAZINE-1-YLETHYLAMINE no data available

Nonylphenol

Engineering measures to reduce exposure Ensure adequate ventilation, especially in confined areas..

- Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment

- Hand protection: protective gloves

- Eye protection: safety glasses with side-shields

- Skin and body protection: Wear as appropriate.

Hygiene measures: When using do not eat or drink. Wash hands before breaks and immediately after handling the product

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid. Colour: amber. Odour: amine-like.

pH: ( 50 g/l H<sub>2</sub>O) 10.5 ( 20 °C)

Boiling point/range: >221 °C

Flash point: 135 °C

Flammability (solid, gas): Not applicable

Relative density: - lower 0.97 ( 20 °C)

Water solubility completely soluble.

#### 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: Prolonged heating at temperatures above 50°C.

Materials to avoid: oxidizing agents, Nitrous acid and other nitrosating agents.

Hazardous decomposition products: Carbon monoxide, Ammonia, nitrogen oxides (NO<sub>x</sub>).

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50/oral/rat = 2140mg/kg.  
LD50/dermal/rabbit = 900mg/kg

#### 12. ECOLOGICAL INFORMATION

Mobility: Do not let product enter drains

Other information: Formulated product. Not applicable

#### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Solidify unexposed surplus and dispose of together with processed material as cured plastic waste. According to (national equivalent of EC-Dir. 78/319; disposal of toxic and hazardous waste)

Contaminated packaging:

European waste Catalogue No: **08 04 99**

#### 14. TRANSPORT INFORMATION

Proper shipping name: Corrosive liquid, basic, organic, n.o.s. (2-Piperazine-1-ylethylamine)

UN-No: 3267 Marine pollutant:

ADR/RID Class: 8

HI/UN No: 3267

Product name: 2-TON CLEAR EPOXY  
HARDENER

PAGE: 3 of 3  
PRINT DATE: 24/07/2002  
REF: X0061

---

IMO Class:	8	Packing group :	III
Proper shipping name:	Corrosive liquid, basic ,organic, n.o.s (2-Piperazine-1-ylethylamine)		
ICAO Class:	8	UN/ID No:	3267
Proper shipping name	Corrosive liquid, basic , organic, n.o.s (2-Piperazine-1-ylethylamine)		

---

#### 15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: 2-PIPERAZINE-1-YLETHYLAMINE
- Symbol(s):



C

- R -phrase(s): R34 - Causes burns. R21/22 - Also harmful in contact with skin and if swallowed
- S -phrase(s): S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 1/2 - Keep locked-up and out of reach of children. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

---

#### 16. OTHER INFORMATION

Recommended use: Adhesives

Recommended restrictions:

When used in a mixture, read the labels and safety data sheets of all components.

Revision date: 08/07/2002

---

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication