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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>EEC-No</th>
<th>Class</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-PIPERAZINE-1-YLETHYLAMINE</td>
<td>140-31-8</td>
<td>612-105-00-4</td>
<td>Xn; R21/22 C; R34 R43</td>
<td>20-50</td>
</tr>
<tr>
<td>Nonylphenol</td>
<td>25154-52-3</td>
<td>246-670-0</td>
<td>C;R22 R34</td>
<td>30-60</td>
</tr>
</tbody>
</table>

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$_2$).
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
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: 2-PIPERAZINE-1-YLETHYLAMINE

National occupational exposure limits (Ref: British COSHH - EH40):
2-PIPERAZINE-1-YLETHYLAMINE: no data available

Nonylphenol

Engineering measures to reduce exposure
- 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 H2O) 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) completely soluble.
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 (NOx).

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-yethylamine)
UN-No: 3267
ADR/RID Class: 8
Marine pollutant: √
HI/UN No: 3267
Product name: 2-TON CLEAR EPOXY HARDENER

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

15. REGULATORY INFORMATION
Classification according to European directive on classification of hazardous preparations 93/21/EEC
- Contains: 2-PIPERAZINE-1-YETHYLAMINE
- 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.