SAFETY DATA SHEET
FLEXANE 80/94L HARDENER

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

PRODUCT NAME
FLEXANE 80/94L HARDENER

PRODUCT NO.
X0023

SUPPLIER
ITW DEVCON
BAY 150
SHANNON INDUSTRIAL ESTATE
SHANNON
CO CLARE
IRELAND
T: +353 (0)61471299
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EMERGENCY TELEPHONE
+44 (0)208 762 8322

2 HAZARDS IDENTIFICATION

Irritating to eyes. Harmful in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
CLASSIFICATION
Xn;R21/22, R48/20. Xi;R36. N;R50/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIETHYLMETHYLBENZENEDIAMINE</td>
<td>270-877-4</td>
<td>68479-98-1</td>
<td>30-60%</td>
<td>Xn;R21/22, R48/22 Xi;R36 N;R50/53</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL DIBENZOATE</td>
<td>19224-26-1</td>
<td>18702-41-8</td>
<td>1-5%</td>
<td>N;R51/53.</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION
Avoid contact with eyes. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

INHALATION
Move the exposed person to fresh air at once. Contact physician if discomfort continues.

INGESTION
Do not induce vomiting. Drink plenty of water. Get medical attention.

SKIN CONTACT
Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

EYE CONTACT
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Extinguish with foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES
Avoid breathing fire vapours. Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
FLEXANE 80/94L HARDENER

SPECIFIC HAZARDS
By heating and fire, irritating vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Avoid contact with skin and eyes. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS
Do not allow ANY environmental contamination. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS
Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Avoid contact with skin and eyes. Handle and open container with care. Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

PROCESS CONDITIONS
Provide eyewash, quick drench.

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION
Protective gloves are recommended. Neoprene gloves are recommended. Nitrile gloves are recommended.

EYE PROTECTION
Wear approved, tight fitting safety glasses where splashing is probable.

HYGIENE MEASURES
Keep away from food, drink and animal feeding stuffs. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

SKIN PROTECTION
Protection suit must be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

| APPEARANCE | Liquid       |
| COLOUR     | Black       |
| ODOUR      | Slight odour|
| BOILING POINT (°C) | >232          |
| MELTING POINT (°C) | n/d          |
FLEXANE 80/94L HARDENER

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID
Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50
>500 mg/kg (oral rat)

INHALATION
Irritating to respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

INGESTION
Harmful if swallowed.

SKIN CONTACT
Irritating to skin. Harmful in contact with skin.

EYE CONTACT
Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY
Avoid releasing to the environment. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

DEGRADABILITY
The product is not readily biodegradable.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS
08 04 99

14 TRANSPORT INFORMATION

UK ROAD CLASS
9
FLEXANE 80/94L HARDENER

PROPER SHIPPING NAME
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DIETHYLMETHYLBENZENEDIAMINE, PROPYLENE GLYCOL DIBENZOATE)

UN NO. ROAD
3082

ADR CLASS NO.
9

ADR PACK GROUP
III

ADR LABEL NO.
9

CEFIC TEC(R) NO.
90GM6-III

RID PACK GROUP
III

UN NO. ROAD PACK GR.
UK ROAD PACK GR. III

UN NO. SEA
3082

UN NO. AIR
3082

AIR PACK GR.
III

15 REGULATORY INFORMATION

LABELLING
Harmful
Dangerous for the environment

CONTAINS
DIETHYLMETHYLBENZENEDIAMINE

RISK PHRASES
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36 Irritating to eyes.
R21/22 Harmful in contact with skin and if swallowed.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

SAFETY 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.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16 OTHER INFORMATION

REVISION DATE
26/09/2008

REVISION NO./REPL. SDS GENERATED 6

DATE
11.01.05

RISK PHRASES IN FULL
R21/22 Harmful in contact with skin and if swallowed.
R36 Irritating to eyes.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.
SAFETY DATA SHEET
FLEXANE 80L RESIN.

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

PRODUCT NAME
FLEXANE 80L RESIN.

PRODUCT NO.
X0020

SUPPLIER
ITW DEVCON
BAY 150
SHANNON INDUSTRIAL ESTATE
SHANNON
CO CLARE
IRELAND
T: +353 (0)61471299
F: 353(0)61471285

EMERGENCY TELEPHONE
+44 (0)208 762 8322

2 HAZARDS IDENTIFICATION

Harmful by inhalation. May cause sensitisation by inhalation and skin contact.

CLASSIFICATION
Xn;R20. R42/43.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-METHYLENE DI(CYCLOHEXYL ISOCYANATE)</td>
<td>225-863-2</td>
<td>5124-30-1</td>
<td>1-5%</td>
<td>T;R23 R42/43 Xi;R36/37/38</td>
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</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION
Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). Persons with impaired lung functions should not handle this preparation. Persons susceptible for allergic reactions should not handle this product.

INHALATION
Move the exposed person to fresh air at once. Contact physician if discomfort continues.

INGESTION
Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

SKIN CONTACT
Remove contaminated clothing immediately and wash skin with soap and water. Contact physician if irritation persists.

EYE CONTACT
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Extinguish with foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES
Cool containers exposed to flames with water until well after the fire is out. Keep up-wind to avoid fumes. Keep run-off water out of sewers and water sources. Dike for water control.
FLEXANE 80L RESIN.

SPECIFIC HAZARDS
Avoid breathing fire vapours.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS
Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS
Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Handle and open container with care. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS
Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>TWA - 8 hrs</th>
<th>STEL - 15 min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-METHYLENEDI(CYCLOHEXYL ISOCYANATE)</td>
<td>WEL</td>
<td>0.02 mg/m3(Sen)</td>
<td>0.07 mg/m3(Sen)</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT
In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

HAND PROTECTION
Use protective gloves made of: Rubber, neoprene or PVC.

EYE PROTECTION
Use approved safety goggles or face shield.

HYGIENE MEASURES
Keep away from food, drink and animal feeding stuffs. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

SKIN PROTECTION
Protection suit must be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Liquid
FLEXANE 80L RESIN.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Clear</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>&gt;149.</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>n/d</td>
</tr>
<tr>
<td>Relative Density (g/mL)</td>
<td>1.04 25 °C</td>
</tr>
<tr>
<td>Vapour Pressure (mmHg)</td>
<td>&lt;10 25</td>
</tr>
<tr>
<td>pH Value, Conc. Solution</td>
<td>7 @ 25 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3.2-8.5 Pas</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>&gt;234.</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS
Fire or high temperatures create: Nitrous gases (NO\textsubscript{x}). Oxides of: Carbon monoxide (CO). Carbon dioxide (CO\textsubscript{2}). Vapours/gases/fumes of: Ammonia or amines.

11 TOXICOLOGICAL INFORMATION

INHALATION
Irritating to respiratory system. May cause sensitisation by inhalation.

SKIN CONTACT
Irritating to skin. Risk of sensitisation or allergic reactions among sensitive individuals.

HEALTH WARNINGS
Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Persons with impaired lung functions should not handle this preparation. Persons susceptible for allergic reactions should not handle this product. Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

Name 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l  1.2mg/l
EC 50, 48 Hrs, DAPHNIA, mg/l >500mg/l

MOBILITY
Do not discharge into drains, water courses or onto the ground.

DEGRADABILITY
Assessment of biological degradability (Closed-Bottle Test) 60 %.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS
08 04 99

14 TRANSPORT INFORMATION

GENERAL
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

LABELLING
FLEXANE 80L RESIN.

CONTAINS
4,4’-METHYLENE DI(CYCLOHEXYL ISOCYANATE)

RISK PHRASES
R20 Harmful by inhalation.
R42/43 May cause sensitisation by inhalation and skin contact.

SAFETY 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.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
P4 Contains isocyanates. See information supplied by the manufacturer.

EU DIRECTIVES
Dangerous Substance Directive 67/548/EEC.

16 OTHER INFORMATION

REVISION DATE  26/09/2008
REV. NO./REPL. SDS GENERATED  8
DATE  07.01.04

RISK PHRASES IN FULL
R23 Toxic by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42/43 May cause sensitisation by inhalation and skin contact.

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