**PAGE:** 1 of 3

## SAFETY DATA SHEET

**PRINT DATE: 03/11/2003** 

**REF:** X0020

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

**Product name:** FLEXANE 80L RESIN.

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: 01933 670800 353(61)471285

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulated product. Identification of the preparation

**Chemical Name CAS-No EEC-No** Class Weight %

4.4'-5124-30-1 615-009-00-0 T: R23 Xi: R36/37/38 < 5

METHYLENEDI(CYCLOHEXYLISOCYANATE) R42/43

3. HAZARDS IDENTIFICATION

Most important hazards: May cause sensitization by inhalation and skin contact. Specific hazards Harmful by inhalation. Irritating to eyes and skin.

4. FIRST AID MEASURES

General advice: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory

conditions, should not work with isocyanates. Show this safety data sheet to the doctor in

attendance.

Inhalation: Move to fresh air Consult a physician if necessary.

Skin contact: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. Eye contact: Rinse immediately with plenty of water for at least 15 minutes Consult a physician if necessary. Ingestion:

Rinse mouth.Do not induce vomiting. If a person vomits when lying on his back, turn over on his

side. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: foam Carbon Dioxide (CO<sub>2</sub>), dry chemical,

Extinguishing media which must not be used for safety reasons:

water.

Specific hazards: Cool containers / tanks with water spray.

Special protective equipment for firefighters: In case of fire, wear a self contained breathing

apparatus.protective suit.

Specific methods: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Wear self-contained breathing apparatus and protective

**Environmental precautions:** Do not let product enter drains. Avoid subsoil penetration.

Methods for cleaning up: Soak up with inert absorbent material, Shovel into a dry metal container.

7. HANDLING AND STORAGE

Handling: Open drum carefully as content may be under pressure. In case of insufficient ventilation, wear

suitable respiratory equipment.

Storage: Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chemical Name:** National occupational exposure limits:

**PAGE:** 2 of 3

Product name: FLEXANE 80L RESIN. PRINT DATE: 03/11/2003

**REF:** X0020

Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas..

- **Respiratory protection:** Breathing apparatus with filter A.

- **Hand protection:** impervious butyl rubber gloves. Neoprene gloves.

**- Eye protection:** Wear face-shield and protective suit for abnormal processing problems

- **Skin and body protection:** boots, protective suit.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. Wash hands before

breaks and at the end of workday. Do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid. Colour: clear. Odour: slight.

**pH**: ( 50 g/l H2O) 7

Boiling point/range: >149. °C
Flash point: >234. °C
Melting point/range n/d °C
Flammability (solid, gas): Not applicable.
Oxidizing properties: Not applicable.

**Vapour pressure:** <10 mm Hg ( 25 °C)

Relative density: - lower 1.04 ( 25 °C)

( 25 °C)

**Viscosity:** ( 25 °C) 3500

10. STABILITY AND REACTIVITY

Stability: Stable.

**Conditions to avoid:** Keep away from heat and sources of ignition.

**Materials to avoid:** water, alcohols, amines, strong bases.

**Hazardous decomposition products:** carbon oxides, nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Irritating to respiratory system and skin.

LD50/dermal/rabbit = >7900mg/kg.

**Sensitization:** Persons allergic to isocyanates, and particularly those suffering from asthma or other

respiratory conditions, should not work with isocyanates.

**Long term toxicity:** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

12. ECOLOGICAL INFORMATION

**Mobility:** Do not contaminate water.

Persistence / degradability: Assessment of biological degradability (Closed-Bottle Test): 60 %.

**Bioaccumulation:** LC50/48h/daphnia = >500 mg/l Acute fish toxicity = 1.2 mg/l

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations. Solidify

unexposed surplus and dispose of together with processed

material as cured plastic waste.

**Contaminated packaging:** Empty containers can be landfilled after cleaning, when in compliance with

local regulations.

European Waste Catalogue No. 08 04 99

14. TRANSPORT INFORMATION

**Proper shipping name:** Not classified as dangerous in the meaning of transport regulations: UN,

ADR/RID, IMO & IATA/ICAO.

Product name: FLEXANE 80L RESIN.

**PAGE:** 3 of 3 **PRINT DATE:** 03/11/2003

**REF:** X0020

## 15. REGULATORY INFORMATION

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

- **Contains:** 4,4'-METHYLENEDI(CYCLOHEXYLISOCYANATE)

- Symbol(s):

**R -phrase(s):** R20 - Also harmful by inhalation. R42/43 - May cause sensitization by inhalation and skin contact

**S -phrase(s):** 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 the label where possible).

This product is not considered hazardous in vivo according to EU Directive 67/548.EEC as amended.

## **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:** 18/07/2002

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

**PAGE:** 1 of 3

**PRINT DATE:** 19/03/2003 SAFETY DATA SHEET

**REF:** X0023

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

FLEXANE 80/94L HARDENER Product name:

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

**Chemical Name** CAS-No EEC-No Class Weight % DIETHYLTOLUENEDIAMINE 68479-98-1 Xn: R21/22 R48 30-40

3. HAZARDS IDENTIFICATION

Most important hazards: Xn - Harmful. N - Dangerous for the environment. 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. Avoid contact with skin and

Inhalation: Move to fresh air, Consult a physician if necessary. Wash off immediately with soap and plenty of water. Skin contact:

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Ingestion: Drink plenty of water, Induce vomiting immediately and call a physician. If a person

vomits when lying on his back, turn over on his side.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: foam, dry powder, Carbon Dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

water

Specific hazards: Burning produces irritant fumes.

Special protective equipment for firefighters: In case of fire, wear a self contained breathing

apparatus, protective suit.

Specific methods: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes, Inhalation.

**Environmental precautions:** Do not let product enter drains

Soak up with inert absorbent material, Shovel into a dry metal container. Methods for cleaning up:

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Open drum carefully as content may be under

pressure. Use only in well-ventilated areas.

Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources Storage:

of ignition - No smoking

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits:

DIETHYLTOLUENEDIAMINE no data available

**PAGE:** 2 of 3

Product name: FLEXANE 80/94L

**HARDENER** 

**PRINT DATE:** 19/03/2003

**REF:** X0023

**Engineering measures to** 

reduce exposure

Ensure adequate ventilation, especially in confined areas.

**Respiratory protection:** Not required with adequate ventilation. If the product is heated, wear

approved organic vapor respirator.

Hand protection: nitrile rubber and Neoprene gloves.
 Eye protection: safety glasses with side-shields.
 Skin and body protection: protective suit , safety shoes.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. Do not smoke.

General industrial hygiene practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid. Colour: black. Odour: slight.

**pH**: ( 50 g/l H2O) 8.5

Boiling point/range: >232 °C
Flash point: >177 °C
Melting point/range: n/d °C
Flammability (solid, gas): Not applicable
Explosive properties: Not applicable.

Vapour pressure: <1

**Relative density:** - lower 1.08 ( 20 °C)

(25 °C)

**Viscosity:** ( 25 °C) 1000

10. STABILITY AND REACTIVITY

**Stability:** No decomposition if stored and applied as directed.

**Conditions to avoid:** Keep away from heat and sources of ignition.

**Materials to avoid:** oxidizing agents, acids.

**Hazardous decomposition products:** nitrogen oxides (NOx), Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50/oral/rat = >500 mg/kg LD50/dermal/rat = >2000 mg/kg Local effects: The product causes irritation of eyes, skin and mucous membranes.

12. ECOLOGICAL INFORMATION

**Mobility:** Do not contaminate water. **Persistence / degradability:** Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Solidify unexposed surplus and dispose of together with

processed material as cured plastic waste - In accordance with local and national regulations

**Contaminated packaging:** In accordance with local and national regulations.

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

14. TRANSPORT INFORMATION

**Proper shipping name:** Not classified as dangerous in the meaning of transport regulations:

UN, ADR/RID, IMO & IATA/ICAO...

15. REGULATORY INFORMATION

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

- Contains: DIETHYLTOLUENEDIAMINE

Product name: FLEXANE 80/94L HARDENER

**PAGE:** 3 of 3

**PRINT DATE:** 19/03/2003

**REF:** X0023

- Symbol(s):





Xn - Harmful.

N -Dangerous for the environment

**R -phrase(s):** R21/22 - Also harmful in contact with skin and if swallowed.

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R36 - Irritating to eyes. R50 - Very toxic to aquatic organisms. R53 - May

cause long-term adverse effects in the aquatic environment.

**S -phrase(s):** 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

**Recommended use:** Adhesives.

Recommended restrictions:

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

**Revision date:** 12/02/2003

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