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PRINT DATE: 06/03/2000

**SAFETY DATA SHEET** 

REF: X0024

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

Product name:

**FLEXANE 94L 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:

353(61)471285

01933 675765

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

formulated product.

Chemical Name

CAS-No

**EEC-No** 

Class

R42/43

Weight %

4,4'METHYLENEDI(CYCLOHEXYLISOCYANATE)

5124-30-1

615-009-00-

T; R23 Xi; R36/37/38

<5

3. HAZARDS IDENTIFICATION Most important hazards:

Specific hazards

severe irritation.

Xn - Harmful

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.

Inhalation:

Move to fresh air Consult a physician if necessary. Wash off immediately with soap and plenty of water.

Skin contact:

Rinse immediately with plenty of water for at least 15 minutes Consult a physician if

necessary

ingestion:

Rinse mouth. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

foam Carbon Dioxide (CO

,), dry chemical,

Extinguishing media which must not be used for safety reasons:

high volume water jet.

Specific hazards:

Burning produces irritant furnes.

Special protective equipment for firefighters:

In case of fire, wear a self contained breathing apparatus.protective suit. Cool containers / tanks

with water spray.

Specific methods:

Standard procedure for chemical fires

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation. Wear self-contained breathing apparatus and

protective suit

**Environmental precautions:** 

Do not let product enter drains.

Methods for cleaning up:

Soak up with inert absorbent material, Shovel into a dry metal container.

Dilute with water. Keep the container open

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

(Ref: British COSHH - EH40):

PAGE: 2 of 3

Product name:

**FLEXANE 94L RESIN** 

PRINT DATE: 06/03/2000

**REF: X0024** 

4,4'METHYLENEDI(CYCLOHEXYLISOCYANATE)

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: - Eve protection:

impervious butyl rubber gloves. Neoprene gloves 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:

dear.

°C

Odour:

slight.

pH:

Flash point

( 50 g/i H2O)

>233

Flammability (solid, gas):

Not applicable

< 10

( 25 mm Hg

Vapour pressure: Relative density:

- lower

1.04

( 25 °C)

°C)

Water solubility

insoluble.

(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:

LD50/oral/rat = >15.9 g/kg.

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 let product enter drains.

Persistence / degradability:

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

Bioaccumulation:

LC50/24h/daphnia = > 500 mg/l

Other information:

Acute fish toxicity = 1.20mg/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:

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

**Product name:** 

**FLEXANE 94L RESIN** 

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PRINT DATE: 06/03/2000

**REF: X0024** 

- Contains:

Contains isocyanates. See information supplied by the manufacturer

- Symbol(s):





Xn - Harmful.

Xi - Irritant

R -phrase(s):

R42/43 - May cause sensitization by inhalation and skin contact. Irritating to eyes,

respiratory system and skin

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 .. soapy 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). S 1/2 - Keep locked-up and out of reach of children..

## **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:

01/03/2000.

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: 06/03/2000

**REF: X0023** 

## SAFETY DATA SHEET

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

Product name:

**FLEXANE 80/94L HARDENER** 

Supplier:

ITW Devcon

Shannon Industrial Estate

Brunel Close, Park Farm Ind.

Co. Clare, Ireland.

Wellingborough, Northants

NN8 6QX

Emergency telephone number:

353(61)471299

01933 675299

Fax No:

353(61)471285

01933 675765

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name

CAS-No

FEC-No

Class

Weight %

4,4'-DIAMINODIPHENYLMETHANE

101-77-9

612-051-00-

Carc. Cat.2; R45 Xn;

10-40

R20/21/22-48/20/21

R43

3. HAZARDS IDENTIFICATION

Most important hazards:

May cause cancer

Specific hazards

May cause sensitization by inhalation and skin contact

4. FIRST AID MEASURES

General advice:

Show this safety data sheet to the doctor in attendance

inhalation: Skin contact:

Move to fresh air, Consult a physician if necessary Wash off immediately with soap and plenty of water

Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion:

Do not induce vomiting without medical advice

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

foam, dry powder, Carbon Dioxide (CO

2)

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

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. Use only in well-ventilated areas.

Storage:

Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:

National occupational exposure limits

(Ref: British COSHH - EH40):

4,4'-DIAMINODIPHENYLMETHANE

0.08 mg/m -3

Engineering measures to

reduce exposure

Ensure adequate ventilation, especially in confined areas

- Respiratory protection:

In case of mist, spray or aerosol exposure wear suitable personal

respiratory protection and protective suit

- Hand protection:

impervious butyl rubber gloves

- Eye protection:

face-shield.

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slight.

Product name:

FLEXANE 80/94L HARDENER

PRINT DATE:

06/03/2000

Odour:

- Skin and body protection:

protective suit, Rubber or plastic boots

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Do not smoke.

General industrial hygiene practice

black.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid.

Colour

pH: ( 50 8.5

g/1 H2O)

Boiling point/range: Flash point:

>200 >177

°C °C

°C

Melting point/range: Flammability (solid, gas): n/d Not applicable

**Explosive properties:** 

Not applicable.

Vapour pressure:

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:

Local effects:

The product causes irritation of eyes, skin and mucous membranes.

Repeated or prolonged exposure:

Prolonged exposure may cause chronic effects

12. ECOLOGICAL INFORMATION

Mobility:

Do not contaminate water.

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 - In accordance

with local and national regulations

Contaminated packaging:

In accordance with local and national regulations

European waste Catalogue No:

09 04 99

14. TRANSPORT INFORMATION

Proper shipping name:

UN-No:

2810

Toxic Liquid n.o.s (4,4'-Diaminodiphenylmethane). Marine pollutant:

Class:

6.1

Item:

Marine pollutant.

ADR/RID

25 (c)

IMO

**ICAQ** 

Class: 6.1 HVUN No:

2810 6270-1

EmS:

IMDG Page: MFAG:

4.2

Proper shipping name:

6 1-00

Toxic Liquid n.o.s (4,4'-Diaminodiphenylmethane).

UN/ID No:

2810

Class:

6.1

Proper shipping name Toxic Liquid n.o.s (4,4'-Diaminodiphenylmethane).

15. REGULATORY INFORMATION

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

- Contains:

3-4% 4,4'-DIAMINODIPHENYLMETHANE

Product name:

FLEXANE 80/94L HARDENER PAGE: 3 of 3

PRINT DATE: 06/03/2000

**REF: X0023** 

- Symbol(s):



R -phrase(s):

R45 - May cause cancer.. R42/43 - May cause sensitization by inhalation and skin contact

S -phrase(s):

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible). S53 - Avoid exposure - obtain special instructions before use.

**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:

01/03/2000.

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