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SAFETY DATA SHEET

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

Product name: **FLEXANE HIGH PERFORMANCE BRUSHABLE HARDENER.**

Supplier: ITW Devcon
 Shannon Industrial Estate
 Co. Clare, Ireland.

Brunel Close, Park Farm Ind. Est.,
 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.				Weight %
Chemical Name	CAS-No	EEC-No	Class		
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	607-195-00-7	R10 Xi; R36	60-80	

3. HAZARDS IDENTIFICATION

Most important hazards: Flammable.

Specific hazards: Irritating to eyes and skin.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance. Avoid contact with the skin and the eyes.

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

Skin contact: Wash off immediately with soap and plenty of water.

Eye contact: Wash off immediately with plenty of water for at least 15 minutes.

Ingestion: Do not induce vomiting. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: dry chemical, water, Carbon Dioxide (CO₂)

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: 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-METHOXY-1-METHYLETHYL ACETATE
 National occupational exposure limits (Ref: British COSHH - EH40):

2-METHOXY-1-METHYLETHYL ACETATE



Product name: **FLEXANE HIGH PERFORMANCE**

REF: X0104

BRUSHABLE HARDENER.

Engineering measures to reduce exposure

- Respiratory protection: No protection normally needed where ventilation is adequate. Elsewhere a NIOSH approved organic vapor respirator may be required.
- Hand protection: Neoprene gloves or nitrile rubber protective gloves
- Eye protection: safety glasses with side-shields
- Skin and body protection:
- 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:	black.	Odour:	pungent.
pH:	(50 g/l H2O)	approx	7 (20 °C)		
Boiling point/range:		>149	°C		
Flash point:		>46	°C		
Explosion limits:		- lower	1.3	vol. % - upper	13.1 vol. %
Relative density:		- lower	1.06	(20 °C)	
Water solubility		partly soluble			

10. STABILITY AND REACTIVITY

- Stability: Stable.
- Conditions to avoid: Avoid temperatures above 48°C.
- Materials to avoid: strong acids and oxidizing agents.
- Hazardous decomposition products: Carbon monoxide nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

- Acute toxicity: Oral effects: LD50 (rat): >500 mg/kg.
Dermal effects: LD50 (rabbit): > 1000 mg/kg
Inhalation effects: LC50(rat):no data
- Sensitization: Sensitisation to amine have been reported.
- Repeated or prolonged exposure: A 2 year feeding study in rats with DETDA caused effects in liver, thyroid, and eyes.

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: In accordance with local and national regulations.
- European waste Catalogue No: In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Proper shipping name:	Flammable liquids, n.o.s (1- Methoxy-2-methylethylacetate)		
UN-No:	1993		
ADR/RID Class:	3.3	Item:	5(c)
		HMUN No:	1993
IMO Class:	3.3	IMDG Page:	3126
EmS:	3-07	MFAG:	310
Proper shipping name:	Flammable liquids, n.o.s (1-Methoxy-2-methylethylacetate)		

Product name:

**FLEXANE HIGH
PERFORMANCE
BRUSHABLE HARDENER.**

PRINT DATE: 03/10/2000

REF: X0104

ICAO	Class:	3.3	UN/ID No:	1993
	Proper shipping name	Flammable liquids, n.o.s (1-Methoxy-2-methylethylacetate)		

15. REGULATORY INFORMATION

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

- Contains: 2-methoxy-1-MethylEthyl Acetate
- Symbol(s):



Flammable



Xi - Irritant

R -phrase(s): R10 - Flammable. R43 - May cause sensitization by skin contact., R36/38 - Irritating to eyes and skin..

S -phrase(s): S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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, All metal parts of the mixing and processing equipment must be earthed.

Revision date: 01/10/2000.

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

SAFETY DATA SHEET

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

Product name: FL-20 PRIMER.
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	CAS-No	EEC-No	Class	Weight %
Chemical Name				
4,4'-METHYLENEDI(CYCLOHEXYLISOCYANATE)	5124-30-1	615-009-00-0	T; R23 Xi; R36/37/38 R42/43	<1
ETHYL ACETATE	141-78-6	607-022-00-5	F; R11	>60

3. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable ,
Specific hazards: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.
Inhalation: . 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 and seek medical advice.
Ingestion: Do not induce vomiting Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon Dioxide (CO₂), foam ,dry chemical.
Extinguishing media which must not be used for safety reasons:
 high volume water jet.
Specific hazards: Burning produces irritant fumes.
Special protective equipment for firefighters: In case of fire, wear a self contained breathing apparatus.
Specific methods: Cool containers / tanks with water spray. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not breath vapours or spray mist
Environmental precautions: Do not let product enter drains. Avoid subsoil penetration.
Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation.
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'-METHYLENEDI(CYCLOHEXYLISOCYANATE) 0.01ppm
 ETHYL ACETATE

Product name: **FL-20 PRIMER.**

REF: X0055

<p>Engineering measures to reduce exposure</p> <ul style="list-style-type: none"> - Respiratory protection: - Hand protection: - Eye protection: - Skin and body protection: <p>Hygiene measures:</p>	<p>400ppm</p> <p>Ensure adequate ventilation, especially in confined areas.</p> <p>In case of Insufficient ventilation, wear suitable respiratory equipment solvent-resistant gloves.</p> <p>goggles, safety glasses with side-shields.</p> <p>protective suit.</p> <p>Keep away from food, drink and animal feeding stuffs.</p>
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9. PHYSICAL AND CHEMICAL PROPERTIES

<p>Form: liquid.</p> <p>pH: (50 g/l H₂O)</p> <p>Boiling point/range:</p> <p>Flash point:</p> <p>Flammability (solid, gas):</p> <p>Explosion limits:</p> <p>Oxidizing properties:</p> <p>Relative density:</p>	<p>Colour: orange.</p> <p>7 (20 °C)</p> <p>77 °C</p> <p>-4 °C</p> <p>liquid</p> <p>- lower 2 vol. % - upper 11 vol. %</p> <p>Not applicable.</p> <p>- lower 0.91 (20 °C)</p>	<p>Odour: solvent.</p>
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10. STABILITY AND REACTIVITY

<p>Stability:</p> <p>Conditions to avoid:</p> <p>Materials to avoid:</p> <p>Hazardous decomposition products:</p>	<p>No decomposition if stored and applied as directed.</p> <p>Keep away from heat and sources of ignition.</p> <p>strong oxidizing agents.</p> <p>carbon oxides.</p>
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11. TOXICOLOGICAL INFORMATION

<p>Acute toxicity:</p> <p>Local effects:</p> <p>Long term toxicity:</p> <p>Repeated or prolonged exposure:</p>	<p>Ethylacetate LD50/oral/rat = 5600mg/kg. LD50/dermal/rabbit = >20 ml/kg. LC50/inhalation/4h/rat = 2260ppm.</p> <p>Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.</p> <p>Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.</p> <p>An excessive exposure of laboratory animals results in toxic effects on the kidney and the liver.</p>
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12. ECOLOGICAL INFORMATION

<p>Mobility:</p> <p>Persistence / degradability:</p>	<p>Do not let product enter drains</p> <p>Avoid subsoil penetration.</p>
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13. DISPOSAL CONSIDERATIONS

<p>Waste from residues / unused products:</p> <p>Contaminated packaging:</p> <p>European waste Catalogue No:</p>	<p>In accordance with local and national regulations.</p> <p>In accordance with local and national regulations.</p> <p>06 04 99.</p>
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14. TRANSPORT INFORMATION

<p>Proper shipping name:</p> <p>UN-No:</p> <p>ADR/RID Class:</p> <p>IMO Class:</p> <p>EmS:</p> <p>Proper shipping name:</p>	<p>Flammable liquids, n.o.s (Ethyl Acetate)</p> <p>1993</p> <p>3</p> <p>3.2</p> <p>3-07</p> <p>Flammable liquids, n.o.s (Ethyl Acetate)</p>	<p>Item: 5(b)</p> <p>HI/UN No: 1993</p> <p>IMDG Page: 3220</p> <p>MFAG: 330</p>
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Product name: **FL-20 PRIMER.**

PRINT DATE: 02/11/2000

REF: X0055

ICAO Class:	3	UN/D No:	1993
Proper shipping name	Flammable liquids, n.o.s (Ethyl Acetate)		

15. REGULATORY INFORMATION

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

- Contains: Contains isocyanates. See information supplied by the manufacturer. ETHYL ACETATE
- Symbol(s):

F Xn

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

S -phrase(s): S16 - Keep away from sources of ignition - No smoking.. S23 - Do not breathe. 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 ... S29 - Do not empty into drains. S33 - Take precautionary measures against static discharges. 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: 01/10/2000.

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