



SAFETY DATA SHEET FL-20 PRIMER

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

PRODUCT NAME FL-20 PRIMER
 PRODUCT NO. X0055
 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

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

CLASSIFICATION Xn;R20. R42/43. F;R11.

HUMAN HEALTH

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Persons susceptible for allergic reactions should not handle this product. Persons with impaired lung functions should not handle this preparation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)	225-863-2	5124-30-1	< 1%	T;R23 R42/43 Xi;R36/37/38
ETHYL ACETATE	205-500-4	141-78-6	60-100%	F;R11 Xi;R36 R66 R67

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. Show this safety data sheet to the doctor in attendance

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Contact physician if discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. Do not give victim anything to drink if they are unconscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately!

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. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

FL-20 PRIMER

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Vapours may ignite. Containers can burst violently when heated, due to excess pressure build-up.

SPECIFIC HAZARDS

Avoid breathing fire vapours. 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

Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use naked flames or other sources of ignition.

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

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Avoid inhalation of vapours. Avoid spilling, skin and eye contact. Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. 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

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	
ETHYL ACETATE	WEL	200 ppm		400 ppm		

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

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

FL-20 PRIMER**RESPIRATORY EQUIPMENT**

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

HAND PROTECTION

Use protective gloves made of: Rubber or plastic.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENE MEASURES

Keep away from food, drink and animal feeding stuffs. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination. When using do not eat, drink or smoke.

SKIN PROTECTION

Protection suit must be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Orange		
ODOUR	Solvent.		
BOILING POINT (°C)	77.7	RELATIVE DENSITY	0.91 20 °C
VAPOUR DENSITY (air=1)	3.0	VAPOUR PRESSURE	86 mmHg 20
EVAPORATION RATE	4.1 (butyl acetate=1)	VOLATILE BY VOL. (%)	95
pH-VALUE, CONC. SOLUTION	7 @ 20 °C	FLASH POINT (°C)	-4
FLAMMABILITY LIMIT - LOWER(%)	2	FLAMMABILITY LIMIT - UPPER(%)	11

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Water, moisture.

MATERIALS TO AVOID

Avoid contact with oxidising agents. Organic peroxides/hydroperoxides. Inorganic peroxides. Alcohols, glycols. Amines. Bases, alkalies (inorganic). Bases, alkalies (organic).

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >15, 800 mg/kg (oral rat)

INHALATION

Harmful by inhalation. Vapour from this chemical can be hazardous when inhaled. May cause sensitisation by inhalation. Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

INGESTION

May cause nausea, headache, dizziness and intoxication. May cause chemical burns in mouth, oesophagus and stomach.

SKIN CONTACT

Prolonged contact may cause dryness of the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Repeated exposure may cause skin dryness or cracking. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact.

EYE CONTACT

May cause severe irritation to eyes. Risk of corneal damage.

HEALTH WARNINGS

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

Name ETHYL ACETATE

FL-20 PRIMER

Toxic Dose 1 - LD 50

5620 mg/kg (oral rat)

Toxic Conc. - LC 50

56 mg/l/4h (inh-rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Avoid releasing to the environment.

MOBILITY

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

WATER HAZARD CLASSIFICATION

WGK 2

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	3		
PROPER SHIPPING NAME	ETHYL ACETATE		
UN NO. ROAD	1173	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	HAZARD No. (ADR)	33
ADR LABEL NO.	3	HAZCHEM CODE	3YE
CEFIC TEC(R) NO.	30GF1-I+II	RID CLASS NO.	3
RID PACK GROUP	II	UN NO. SEA	1173
IMDG CLASS	3	IMDG PAGE NO.	3
IMDG PACK GR.	II	EMS	F-E, S-D
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1173	AIR CLASS	3
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Harmful



Highly Flammable

RISK PHRASES

R11	Highly flammable.
R20	Harmful by inhalation.

FL-20 PRIMER

	R42/43	May cause sensitisation by inhalation and skin contact.
SAFETY PHRASES		
	S16	Keep away from sources of ignition - No smoking.
	S23	Do not breathe vapour/spray.
	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.
	S29	Do not empty into drains.
	S33	Take precautionary measures against static discharges.
	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
	P4	Contains isocyanates. See information supplied by the manufacturer.
	P14	Contains 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE). May produce an allergic reaction.

16 OTHER INFORMATION

REVISION DATE 24/09/2008

REV. NO./REPL. SDS GENERATED 5

DATE 18.01.2005

RISK PHRASES IN FULL

R11	Highly flammable.
R23	Toxic by inhalation.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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.