



METACIL MKS 540 EXP

ICI Pakistan Ltd.

5 WEST WHARF KARACHI

EMERGENCY TELEPHONE: 111-100-200

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1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY

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|-----|------------------------|---------------------|
| 1.1 | CHEMICAL PRODUCT | METACIL MKS 540 EXP |
| 1.2 | APPLICATION | TEXTILE AUXILIARY |
| 1.3 | COMPANY IDENTIFICATION | I.C.I PAKISTAN LTD. |
| 1.4 | EMERGENCY TELEPHONE | 111-100-200 |

2. COMPOSITION/ INFORMATION ON INGREDIENTS

- | | | | | | |
|-----|-----------------------|-----------------------------|---------|-----------|-------|
| 2.1 | CHEMICAL DESCRIPTION | ORGANO PHOSPHOROUS COMPOUND | | | |
| 2.2 | HAZARDOUS INGREDIENTS | C.P.L CLASS | CAS NO. | EINECS NO | W T % |

CONTAINS NO HAZARDOUS INGREDIENTS (93/112/EEC) NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORK SAFE AUSTRALIA



3. HAZARDS IDENTIFICATION

LOW TOXICITY

4. FIRST AID MEASURES

- 4.1 EYE CONTACT IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IF IRRITATION PERSISTS
- 4.2 SKIN CONTACT IMMEDIATELY FLUSHES SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS
- 4.3 INGESTION DOES NOT INDUCE VOMITING WASH OUT MOUTH WITH WATER AND GIVE 200-300 ML (HALF A PINT) OF WATER TO DRINK OBTAIN IMMEDIATE MEDICAL ATTENTION
- 4.4 INHALATION OBTAIN MEDICAL ATTENTION IF ILL EFFECTS OCCUR

5. FIRE EXTINGUISHING MEDIA

- 5.1 EXTINGUISHING MEDIA WATER SPRAY, FOAM, DRY POWDER OR CO2
- 5.2 FIRE AND EXPLOSION HAZARDS COMBUSTIBLE
- 5.3 PROTECTIVE MEASURES NO SPECIAL PROTECTIVE MEASURES ARE REQUIRED

6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS NO SPECIAL PRECAUTIONS REQUIRED
- 6.2 ENVIRONMENTAL PRECAUTIONS DO NOT FLUSH TO SEWER
- 6.3 CLEANING UP ADSORB SPILLAGES ONTO SAND, EARTH OR ANY SUITABLE ADSORBANT MATERIAL TRANSFER TO CONTAINER FOR DISPOSAL SPILLAGES OR UNCONTROLLED DISCHARGES INTO WATER COURSES MUST BE ALERTED TO THE APPROPRIATE REGULATORY BODY

7. STORAGE AND HANDLING

- 7.1 STORAGE STORE NO SPECIAL REQUIREMENTS



- 7.2 RECOMMENDED SHELF LIFE 12 MONTHS
- 7.3 HANDLING NO SPECIAL PRECAUTIONS REQUIRED

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NONE ESTABLISHED

8.2 ENGINEERING MEASURES

VENTILATION SYSTEM:
A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES AS LOW AS POSSIBLE. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. PLEASE REFER TO THE ACGIH DOCUMENT, INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES, MOST RECENT EDITION, FOR DETAILS

8.3 PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION NO RESPIRATORY PROTECTION IS REQUIRED UNDER NORMAL CONDITIONS

HAND PROTECTION WEAR PROTECTIVE GLOVES

EYE PROTECTION USE CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA

SKIN PROTECTION WEAR CLEAN BODY-COVERING CLOTHING

9. PHYSICAL/ CHEMICAL PROPERTIES

9.1 APPEARANCE COLORLESS CLEAR TO LIGHT YELLOW LIQ.

9.2 ODOUR N.A

9.3 PH 0.2-2

9.4 VISCOSITY N.A

9.5 FREEZING POINT NOT ASSESSED



9.6	FREEZE THAW RECOVERY	NOT ASSESSED
9.7	BOILING POINT	>100° C
9.8	MELTING POINT	N.A
9.9	FLASH POINT	N.A
9.10	AUTOFLAMMABILITY	NOT APPLICABLE
9.11	EXPLOSIVE PROPERTIES	NOT APPLICABLE
9.12	VAPOUR PRESSURE	N.A
9.13	VAPOUR DENSITY	NOT ASSESSED
9.14	RELATIVE DENSITY	NOT ASSESSED
9.15	SOLUBILITY	DISPERSIBLE IN WATER
9.16	PARTITION COEFFICIENT	NOT ASSESSED
10.	STABILITY AND REACTIVITY	
10.1	STABILITY	STABLE UNDER NORMAL INDUSTRIAL USE
10.2	CONDITIONS TO AVOID	NON KNOWN
10.3	MATERIALS TO AVOID	BASES / STRONG OXIDIZING AGENTS
10.4	RECOMMENDED MATERIALS FOR EQUIPMENT	COMPATIBLE WITH MOST MATERIALS
10.5	HAZARDOUS DECOMPOSITION PRODUCTS	NONE KNOWN
11.	TOXICOLOGICAL INFORMATION	
11.1	SHORT TERM EFFECTS	
	EYE CONTACT	NON-IRRITANT TO RABBIT EYES UNLIKELY TO CAUSE EYE IRRITATION IN MAN
	SKIN CONTACT	NON-IRRITANT TO RABBIT SKIN IT IS NOT A SKIN SENSITIZER IN ANIMAL TESTS. UNLIKELY TO CAUSE SKIN IRRITATION IN MAN
	INGESTION	ORAL MEDIAN LETHAL DOSE (RAT) > 2000MG/KG LOW ORAL TOXICITY



	INHALATION	UNLIKELY TO BE HAZARDOUS BY INHALATION
11.2	CHRONIC EFFECTS	N.A
12.	ECOLOGICAL INFORMATION	
12.1	LC 50	RAINBOW TROUT (96 HOUR) (STATIC) >2000 MG/L
12.2	BOD	(BOD 28 DAY/COD) MODIFIED OECD 301C TEST 0%
12.3	COD	0.1 TO 2/G
12.4	OTHER	DISSOLVED ORGANIC CARBON REMOVAL (DOC REMOVAL) MODIFIED OECD 301C TEST 40% THE PRODUCT IS PARTIALLY BIODEGRADABLE IN WATER. IC10(PSEUDOMONAS PUTIDA) (6 HOUR) 0.62MG/L IC50 (PSEUDOMONAS PUTIDA) (6HOUR) 0.98 MG/L
13.	DISPOSAL CONSIDERATIONS	
		DISPOSE IN ACCORDANCE WITH LOCAL REGULATIONS I.E. TIPPING
14.	TRANSPORT INFORMATION	
14.1	PACKAGING	200 KG PACKING
14.2	FREIGHT CLASSIFICATIONS	NOT CLASSIFIED AS DANGEROUS FOR TRANSPORT
	UN NUMBER	NOT APPLICABLE
	ADR NUMBER	NOT APPLICABLE
	IMDG NUMBER	NOT APPLICABLE
	PACKING GROUP	NOT APPLICABLE
	TERM CARD	NOT APPLICABLE
15.	REGULATORY INFORMATION	
15.1	C.P.L CLASSIFICATION	NOT APPLICABLE
	HAZARD PICTOGRAM	N.A
	RISK PHRASES	N.A



ICI PAKISTAN LTD.

ICI Pakistan Limited
Chemical Business

SAFETY PHRASES N.A

15.2 OTHER LEGISLATION N.A

16. OTHER INFORMATION

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