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

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 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 W ORK 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 FLUSH 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 WATERCOURSES 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) 0.62 MG/L IC50 (PSEUDOMONAS PUTIDA) (6 HOUR) 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
SAFETY PHRASES      N.A

15.2 OTHER LEGISLATION      N.A

16. OTHER INFORMATION

ISSUE NUMBER  4      DATE  FEB 2016