METACIL AN-WD
ICI Pakistan Ltd.
5 WEST WHARF KARACHI
EMERGENCY TELEPHONE: 111-100-200

SECTION NUMBER AND HEADING

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1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY

1.1 CHEMICAL PRODUCT METACIL AN-WD
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 BLEND OF ANIONIC SEQUESTERING CHEMICALS, POLYMERIC DISPERSING AGENTS, METAL SALTS.

<table>
<thead>
<tr>
<th>HAZARDOUS</th>
<th>C.P.L CLASS</th>
<th>CAS No.</th>
<th>EINECS NO</th>
<th>WT % INGREDIENTS</th>
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<td>NONE</td>
<td>N.A</td>
<td>NA</td>
<td>N.A</td>
<td>N.A</td>
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3. HAZARDS IDENTIFICATION

WARNING STATEMENT:
CAUTION: CONTACT WITH THE EYES AND SKIN MAY RESULT IN IRRITATION. INHALATION OF THE VAPORS OR MISTS MAY RESULT IN RESPIRATORY IRRITATION. INGESTION MAY RESULT IN GASTRIC DISTURBANCES.

4. FIRST AID MEASURES

4.1 EYE CONTACT
IMMEDIATELY FLUSHES EYES WITH CLEAN WATER AND GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

4.2 SKIN CONTACT
DO NOT CONTACT LONG TERM WITH SKIN, IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER.

4.3 INGESTION
RINSE MOUTH OUT WITH WATER, GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

4.4 INHALATION
IF DIFFICULTIES OCCUR AFTER VAPOUR/AEOSOL HAS BEEN INHALED, REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION.

5. FIRE EXTINGUISHING MEDIA

5.1 EXTINGUISHING MEDIA
USE WATER FOG, FOAM OR DRY CHEMICAL EXTINGUISHING MEDIA.

5.2 FIRE AND EXPLOSION HAZARDS
THERE ARE NO KNOWN UNUSUAL FIRE OR EXPLOSION HAZARDS.

5.3 PROTECTIVE MEASURES
A SELF FULL OXYGEN BOTTLE CONTAINED BREATHING SHOULD BE USED TO QUENCH FIRE. SUGGESTED PROTECTIVE CLOTHING.

6. ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION:
SPILLS SHOULD BE CONTAINED, SOLIDIFIED, AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL IN A LICENSED FACILITY. THIS MATERIAL IS NOT REGULATED BY RCRA OR CERCLA (“SUPERFUND”). WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AND PROVIDE ADEQUATE VENTILATION DURING CLEAN-UP.
6.1 ENVIRONMENTAL  
DO NOT ALLOW CHEMICAL TO ENTERS PRECAUTIONS WATER SOURCES AND SEWER SYSTEMS.

6.2 CLEANING UP  
WASH THE CONTAMINATED AREA WITH PLENTY OF WATER.

7. STORAGE AND HANDLING

7.1 HANDLING  
WHEN HANDLING ALL CHEMICALS. OBSERVE GOOD STANDARDS OF INDUSTRIAL HYGIENE.

7.2 STORAGE  
KEEP ONLY THE ORIGINAL CONTAINER IN A WELL-VENTILATED PLACE AWAY FROM EXCESS HEAT AND COOL KEEP CONTAINER TIGHTLY CLOSED.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 EYES:  
CHEMICAL GOGGLES.

8.2 RESPIRATION:  
APPROVED ORGANIC VAPOR MIST RESPIRATOR AS NECESSARY.

8.3 CLOTHING:  
GLOVES, COVERALLS, APRON, AND BOOTS AS NECESSARY TO PREVENT CONTACT.

9. PHYSICAL/ CHEMICAL PROPERTIES

9.1 APPEARANCE  
DARK BROWN CLEAR LIQUID

9.2 ODOUR  
CHARACTERISTICS

9.3 PH (10%)  
4.0-5.5

9.4 VISCOSITY  
N.A

9.5 FREEZING POINT  
N.A

9.6 FREEZE THAW RECOVERY  
NOT ASSESSED

9.7 BOILING POINT  
N.A

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 NOT ASSESSED
9.13 VAPOUR DENSITY NOT ASSESSED
9.14 RELATIVE DENSITY NOT ASSESSED
9.15 SOLUBILITY DISPERSABLE IN WATER
9.16 PARTITION COEFFICIENT NOT ASSESSED

10. STABILITY AND REACTIVITY

10.1 STABILITY STABLE
10.2 CONDITIONS TO AVOID NONE KNOWN.
10.3 MATERIALS TO AVOID NONE KNOWN.
10.4 RECOMMENDED MATERIALS FOR EQUIPMENT COMPATIBLE WITH ALL MATERIALS
10.5 HAZARDOUS DECOMPOSITION PRODUCTS NONE KNOWN

11. TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXITY (LD50) > 2000 MG/KG
11.2 RAT (ORAL) PRIMARY IRRITATION (SKIN) IRRITANT RABBIT (EYE) IRRITANT RABBIT
11.3 ADVERSE EFFECTS IN MAN
   ADDITIONAL INFORMATION ACUTE TOXITY CALCULATED FROM THE KNOWN DATA ON THE COMPONENTS
11.4 CHRONIC EFFECTS N.A

12. ECOLOGICAL INFORMATION

BIOELIMINATION 90-100 %, DOC ANALYSIS OECD2B (MOD)

SUMMARY ELIMINATED BY BIODEGRADATION AND/OR ADSORPTION ONTO
EFFLUENT SLUDGE
ECOLOGICAL DATA

BACTERIAL TOXITY BST >300 MG/L

EC50 9 MG/L DIN 38412 PART 34

FISH TOXITY LC50 7.2 MG/L OECD 203

ADDITIONAL DATA:

BOD5 103 MGO2/G COD 960 MGO2/G TOC 24%

PHOSPHORUS CONTENT - %

ORGANOHALOGEN CONTENT - %

METAL CONTENT - % METAL CONTENT UNDER THE ETAD RECOMMENDED LIMITS.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
DISPOSE OF PRODUCT IN AUTHORIZED PLACES / METHODS IN OBSERVANCE WITH CURRENT LAW

CONTAINER DISPOSAL:
DISPOSE OF IN A LICENSED FACILITY. RECOMMEND CRUSHING OR OTHER MEANS TO PREVENT UNAUTHORIZED REUSE.

14. TRANSPORT INFORMATION

14.1 PACKAGING 200 & 30 Kg PACKING.

14.2 FREIGHT CLASSIFICATIONS NOT APPLICABLE

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

15.2 HAZARD PICTOGRAM

RISK PHRASES  N.A
SAFETY PHRASES  N.A

15.3 OTHER LEGISLATION  NOT APPLICABLE

16. OTHER INFORMATION

ISSUE NUMBER  4  DATE  FEB 2016