CALABOND VB
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 CALABOND VB
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 A DISPERSION OF VINYL BASED RESIN

2.2 HAZARDOUS C.P.L CLASS CAS No. EINECS NO WT %

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>C.P.L</th>
<th>CAS No.</th>
<th>EINECS No</th>
<th>WT %</th>
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<td>VINYL ACETATE</td>
<td>N.A</td>
<td>108-05-4</td>
<td>N.A</td>
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<td>MONOMER</td>
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3. **HAZARDS IDENTIFICATION**

**EYE CONTACT**
MAY CAUSE EYE IRRITATION

**SKIN CONTACT**
MAY CAUSE SKIN IRRITATION

**INGESTION**
MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT

**INHALATION**
AT ROOM TEMPERATURE, VAPORS ARE NOT EXPECTED TO FORM. IF MATERIAL IS HEATED VAPOR CONCENTRATION MAY BECOME SUFFICIENT TO CAUSE RESPIRATORY IRRITATION.

4. **FIRST AID MEASURES**

4.1 **EYE CONTACT**
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID IF IRRITATION PERSIST

4.2 **SKIN CONTACT**
IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

4.3 **INGESTION**
IMMEDIATELY CALLS PHYSICIAN. IF SWALLOWED, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. IF PERSON VOMITS WHILE LYING ON HIS BACK, PLACE HIM IN AN UPRIGHT POSITION.

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

5. **FIRE EXTINGUISHING MEDIA**

**GENERAL INFORMATION**
AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS WITH PRESSURE ON DEMAND, MSHA/NIOSH (APPROVED OREQUIVALENT), AND FULL PROTECTIVE GEAR. PRODUCT WILL BURN IF INVOLVED IN A FIRE.
5.1 EXTINGUISHING MEDIA  
WATER, MIST, CO2, DRY POWDER

5.2 FIRE AND EXPLOSION HAZARDS  
THE PRODUCT IS NOT FLAMMABLE

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

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS  
AVOID DIRECT CONTACT WITH EYES.

6.2 ENVIRONMENTAL  
DO NOT ALLOW CHEMICAL TO ENTER PRECAUTIONS WATER SOURCES AND SEWER SYSTEMS.

6.3 CLEANING UP  
CONTAIN SPILLAGES WITH SAND, EARTH OR ANY SUITABLE ADSORBENT MATERIAL. TRANSFER TO A CONTAINER FOR DISPOSAL. WASH THE SPILLAGE AREA. CLEAN WITH WATER AND DETERGENT.

7. STORAGE AND HANDLING

7.1 STORAGE  
KEEP ONLY THE ORIGINAL CONTAINER IN A WELL-VENTILATED PLACE AWAY FROM EXCESS HEAT AND COOL. KEEP CONTAINER TIGHTLY CLOSED. STORE AT ROOM TEMPERATURE. AVOID CONTACT WITH DIRECT SUNLIGHT.

7.2 RECOMMENDED SHELF LIFE  
06 MONTHS

7.3 HANDLING  
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTISES AND USUAL SAFETY MEASURES

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 OCCUPATIONAL EXPOSURE LIMITS  
CHEMICAL  
10 PPM TWA (ACGIH)  
15 PPM STEL (ACGIH)

8.2 ENGINEERING MEASURES  
ENSURE ADEQUATE VENTILATION

8.3 PERSONAL PROTECTIVE EQUIPMENT  
RESPIRATORY PROTECTION  
NOT REQUIRED
HAND PROTECTION                              WEAR GLOVES
EYE PROTECTION                                  WEAR GOGGLES
SKIN PROTECTION                                 AVOID CONTACT WITH SKIN

9.        PHYSICAL/ CHEMICAL PROPERTIES

9.1       APPEARANCE         WHITE VISCOUS DISPERSION
9.2       ODOUR                    NOT APPLICABLE
9.3       Ph 5-7 (10% SOLUTION)
9.4       VISCOSITY 40 - 60 POISE @ 30 oC (AT ROTO THINNER)
9.5       FREEZING POINT  NOT ASSESSED
9.6       FREEZE THAW RECOVERY NOT ASSESSED
9.7       BOILING POINT NOT APPLICABLE
9.8       MELTING POINT NOT APPLICABLE
9.9       FLASH POINT NOT ASSESSED
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 DISPERSIBLE IN WATER.
9.16      PARTITION COEFFICIENT NOT APPLICABLE
10. STABILITY AND REACTIVITY

10.1 STABILITY          STABLE UNDER NORMAL WORKING CONDITIONS.

10.2 CONDITIONS TO AVOID  NONE KNOWN

10.3 MATERIALS TO AVOID    IGNITION SOURCES

10.4 HAZARDOUS DECOMPOSITION PRODUCTS  OXIDES OF CARBON, SULPHUR AND NITROGEN

11. TOXICOLOGICAL INFORMATION

11.1 SHORT TERM EFFECTS

EYE CONTACT          IRRITANT TO EYES

SKIN CONTACT          IRRITANT TO SKIN

INGESTION            VERY LOW TOXICITY

INHALATION           NOT APPLICABLE

11.2 CHRONIC EFFECTS   PROLONGED USE MAY CAUSE DERMATITIS

11.3 CARCINOGENICITY   NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA

12. ECOLOGICAL INFORMATION

12.1 LC 50             NOT ASSESSED

12.2 BOD               NOT ASSESSED

12.3 COD               NOT ASSESSED

12.4 OTHER             NOT ASSESSED

THE PRODUCT, BY ANALOGY, IS EXPECTED TO BE PARTIALLY BIODEGRADABLE. EXPECTED TO BE OF LOW TOXICITY TO AQUATIC LIFE. THE PRODUCT IS SUBSTANTIALLY REMOVED IN BIOLOGICAL TREATMENT PROCESSES.
DISPOSAL CONSIDERATIONS

DISPOSAL SHOULD BE IN ACCORDANCE WITH LOCAL, STATE OR NATIONAL LEGISLATION.

TRANSPORT INFORMATION

14.1 PACKAGING
200 Kg IRON DRUM OPEN MOUTH.

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

REGULATORY INFORMATION

15.1 C.P.L CLASSIFICATION
NOT APPLICABLE

HAZARD PICTOGRAM
Xi (IRRITANT)

RISK PHRASES
R-36, R-38

SAFETY PHRASES
S-24, S-25, S-26

15.2 OTHER LEGISLATION
NOT APPLICABLE

OTHER INFORMATION

ISSUE NUMBER
4
DATE
FEB 2016