CALABOND CT ECONO
ICI Pakistan Ltd.
5 WEST WHARF KARACHI
EMERGENCY TELEPHONE: 111-100-200

SECTION NUMBER AND HEADING

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY
2. COMPOSITION/ INFORMATION ON INGREDIENTS
3. HAZARDS IDENTIFICATION
4. FIRST AID MEASURES
5. FIRE FIGHTING MEASURES
6. ACCIDENTAL RELEASE MEASURES
7. STORAGE AND HANDLING
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
9. PHYSICAL/ CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
13. DISPOSAL CONSIDERATIONS
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY

1.1 CHEMICAL PRODUCT CALABOND CT ECONO
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 INGREDIENTS VINYL ACETATE MONOMER
   C.P.L CLASS CAS No. EINECS NO WT %
   N.A  108-05-4 N.A <1%
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/AEROSOL 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 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 8(ACGIH)

15 PPM STEL (ACGIH)

8.2 **ENGINEERING MEASURES**

ENSURE ADEQUATE VENTILATION

8.3 **PERSONAL PROTECTIVE EQUIPMENT**

RESPIRATOR PROTECTION

NOT REQUIRED

(INCASE REQUIRED: APPROVED ORGANIC VAPOR MIST

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**  
4 - 8 (10% SOLUTION)

9.4 **Viscosity**  
35 - 60 POISE @ 30°C (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**  
DISPERSE 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.

13. DISPOSAL CONSIDERATIONS

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

14. 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

15. 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

16.    OTHER INFORMATION

ISSUE NUMBER    4    DATE    FEB 2016