

UNION CARBIDE CORP LINDE DIV -- MONOETHANOLAMINE -- 6810-00-958-9970

===== Product Identification =====

Product ID:MONOETHANOLAMINE

MSDS Date:11/15/1994

FSC:6810

NIIN:00-958-9970

MSDS Number: BYXVQ

=== Responsible Party ===

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:NONE

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:203-744-3487

Emergency Phone Num:2

03-744-3487

CAGE:36346

=== Contractor Identification ===

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357; 304-744-3487

CAGE:36346

Company Name:VENUS LABORATORIES INC

Address:15571 COMMERCE LANE

Box:City:HUNTINGTON BEACH

State:CA

ZIP:92649

Country:US

Phone:714-881-3100

CAGE:0N140

===== Composition/Information on Ingredients =====

Ingred Name:ETHANOLAMINE

CAS:141-43-5

RTECS #:KJ577500

0  
Fraction by Wt: >99%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:3 PPM/6 STEL  
ACGIH TLV:3 PPM/6 STEL; 9192

===== Hazards Identification =====

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE-CAUSES SEVERE IRRITATION & BURNS  
TO BODY TISSUES. MAY BE ABSORBED THROUGH SKIN IN TOXIC AMOUNTS.  
CHRONIC-KI  
DNEY & LIVER DAMAGE.  
Explanation of Carcinogenicity:MANUFACTURER GAVE NO INFORMATION ABOUT  
CARCINOGENICITY. HMIS FOUND NO LISTING & DOES NOT EXPECT IT TO BE  
CARCINOGENIC.  
Effects of Overexposure:EYE:SEVERE  
IRRITATION,PAIN,TEARING,REDNESS,SWELLING,BURNS.  
SKIN:PAIN,REDNESS,SWELLING,ULCERATION,BLEEDING,ABSORPTION OF TOXIC  
AMOUNT. IHALATION:SEVERE RESPIRATORY IRRITATION,NASAL  
DISCHARGE,COUGHING,C HEST PAIN. INGESTED:SEVERE IRRITATION ORBURNS  
TO MOUTH & G/I TRACT,NAUSEA,DI  
ARRHEA,VOMITING W/ASPIRATION,  
DIZZINESS.  
Medical Cond Aggravated by Exposure:MAY AGGRAVATE AN EXISTING  
DERMATITIS, ASTHMA & INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

===== First Aid Measures =====

First Aid:\*\*GET MEDICAL ATTENTION FOR ALL OVEREXPOSURES\*\* EYE:FLUSH  
W/WATER FOR 15 MIN. SKIN:REMOVE CONTAMINATED CLOTHING. WASH  
THOROUGHLY W/SOAP & WATER. LAUNDER CLOTHING BEFORE REUSE.  
INHALED:REMOVE FROM EXPO SURE. AID OR RESTORE BREATHING  
AS NEEDED.  
INGESTED:DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF MILK OR WATER  
TO DRINK. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF  
UNCONSCIOUS.

===== Fire Fighting Measures =====

Flash Point Method:PMCC  
Flash Point:205F,96C  
Extinguishing Media:LARGE FIRE:ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAMS  
BY MANUFACTURER RECOMMENDED TECHNIQUES. SMALL FIRE:CO2 OR DRY  
CHEMICAL  
Fire Fighting Procedures:USE NIOSH APPROVED SELF-CONTAINED BREATHING

APPARATUS,EYE PROTECTION & PROTECTIVE CLOTHING. WATER STREAM MAY CAUSE SPATTERING & SPREAD FIRE.

Unusual Fire/Explosion Hazard:OXIDES OF NITROGEN WILL BE EVOLVED.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR SUITABLE PROTECTIVE EQUIPMENT. AVOID CONTACT W/EYES & SKIN. COLLECT FOR DISPOSAL. AVOID RUNOFF TO SEWERS & WATERWAYS.

Neutralizing Agent:MFR GAVE NO INFORMATION ON MSDS.

===== Handling and Storage =====

Handling and Storage Precautions:STORAGE-STORE IN A COOL, DRY & VENTILATED AREA AWAY FROM HEAT & FLAMES.KEEP CONTAINER CLOSED.

Other Precautions:DANGER! CAUSES EYE & SKIN BURNS. HARMFUL IF INHALED,ABSORBED THROUGH SKIN,SWALLOWED. COMBUSTIBLE. REPEATED EXPOSURE MAY CAUSE LIVER & KIDNEY DAMAGE. ASPIRATION CAUSES LUNG DAMAGE. DO NOT GET IN EYES, ON SKIN/CLOTHING. AVOID BREATHING VAPOR.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE SELF-CONTAINED BREATHING APPARATUS IN HIGH VAPOR CONCENTRATIONS.

Ventilation:GENERAL(MECHANICAL) VENTILATION PLUS LOCAL EXHAUST WHERE VAPORS ARE EXPECTED TO ESCAPE TO THE WORKPLACE.

Protective Gloves:PVC-COATED OR RUBBER

Eye Protection:MONOGOGGLES

Other Protective Equipment:EYE BATH, SAFETY SHOWER & CHEMICAL APRON

Work Hygienic Practices:MFR:?. HMIS:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID CONTACT IF AT ALL POSSIBLE. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health  
USE W/ADEQUATE VENTILATION.

===== Physical/Chemical Properties =====

HCC:B2

NRC/State Lic Num:NONE

Boiling Pt:=170.6C, 339.F

Melt/Freeze Pt:=10.8C, 51.4F

Vapor Pres:0.2 MM

Vapor Density:2.1

Spec Gravity:1.018

Evaporation Rate & Reference: