

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:

203-744-3487

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 #:KJ57750

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Fraction by Wt: >99%

Other REC Limits:NONE SPECIFIED

OSHA PEL:3 PPM/6 STEL

ACGIH TLV:3 PPM/6 STEL; 9192

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===== 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-K

IDNEY & 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,D

IARRHEA,VOMITING W/ASPIRATION, DIZZINESS.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE AN EXISTING DERMATITIS, ASTHMA & INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

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===== 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 BREATHIN

G 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.

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===== 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 BREATHIN

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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 ====
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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 =====

Res

piratory 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.

Suppl

emental 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: