

UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION -- MONOETHANOLAMINE --
6810-00-922-0866

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

Product ID:MONOETHANOLAMINE

MSDS Date:09/08/1988

FSC:6810

NIIN:00-922-0866

MSDS Number: BPJGF

=== Responsible Party ===

Company Name:UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone

Num:800-822-4357

Emergency Phone Num:800-822-4357/304-744-3487

CAGE:7L938

=== Contractor Identification ===

Company Name:MAGNOLIA CHEMICALS AND SOLVENTS

Address:1020 SAMS AVENUE

Box:10276

City:NEW ORLEANS

State:LA

ZIP:70181-0278

Country:US

Phone:504-733-6600

CAGE:0LNB7

Company Name:UNION CARBIDE CORP CHEMICALS AND PLASTICS DIV

Address:308 HARPER DR

Box:City:MOORESTOWN

State:NJ

ZIP:08057

Country:US

Phone:201-646-1111

CAGE:7L938

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

Ingred Name:ETHANOLAMINE
CAS:141-43-5
RTECS #:KJ5775000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:3 PPM/6 STEL
ACGIH TLV:3 PPM/6 STEL; 9293

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

LD50 LC50 Mixture:LD 50 ORAL RAT IS 2100 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: SEVERE IRRITATION AND BURNS.
CENTRAL NERVOUS SYSTEM EFFECTS. PUL
MONARY IRRITATION, AND KIDNEY
AND LIVER DAMAGE. MAY CAUSE SYSTEMIC POISONING. CHRONIC: SEVERE
IRRITATION, DERMATITIS.
Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT
IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.
Effects of Overexposure:EYES: SEVERE IRRITATION, BURNS, REDNESS, PAIN,
BLURRED VISION. SKIN: IRRITATION, REDNESS, PAIN. MAY BE ABSORBED
THROUGH SKIN. SYMPTOMS MAY PARALLEL INHALATION. INHALATION: SORE
THROAT, COUGHING, RESPI RATORY DISTRES
S, HEADACHE, LETHARGY,
NARCOSIS. INGESTION: BURNS OF MOUTH AND ESOPHAGUS, ABDOMINAL PAIN,
NAUSEA, VOMITING
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS OR IMPAIRED LIVER, KIDNEY, AND PULMONARY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

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

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF
IRRITATION PERSISTS, SEE DOCTOR. SKIN: WASH WIT
H MILD SOAP AND
WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. INHALATION:
REMOVE VIC TIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR.
INGESTION: DO NOT INDUCE VOMITING. DRINK 2 GLASSES OF WATER OR
MILK. SEE DOCTOR IMMEDIATELY.

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

Flash Point Method:TCC
Flash Point:185F,85C
Lower Limits:5.5
Upper Limits:17
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL. DO NOT USE A SO

LID STREAM OF WATER STREAM.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS.

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

Spill Release Procedures:REMOV

E PERSONNEL. ELIMINATE IGNITION SOURCES.

VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB IN INERT MATERIAL. PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER.

TOXIC TO AQUATIC LIFE. AVOID DISCHARGE TO NATURAL WATERS.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT, IGNITION SOURCES AND INCOMPATIBL

E MATERIALS. KEEP CONTAINERS CLOSED.

Other Precautions:DO NOT USE ALUMINUM FOR STORAGE OF AQUEOUS SOLUTION.

OUTSIDE OR DETACHED STORAGE IS PREFERRED. ISOLATE FROM ACIDIC MATERIALS. MONOETHANOLAMINE IS GENERALLY STORED IN PLAIN STEEL EQUIPMENT. AVOID EYE A ND SKIN CONTACT. DO NOT BREATHE VAPORS.

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

Respiratory Protection:NIOSH/MSHA-APPROVED RESPIRATOR OR SCBA AS APPROPRIATE FOR EXPOSURE OF CONCERN.

Ventilation:MECHA

NICAL (GENERAL) VENTILATION OR LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL.

Protective Gloves:RUBBER GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES AND FACESHIELD.

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT. EYE BATH AND SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NOTE TO PHY

SICIAN: THE HAZARDS OF THIS MATERIAL ARE MERELY DUE TO ITS MODERATELY SEVERE IRRITANT PROPERTIES OTN THE SKIN AND MUCOUS SURFACES. CAREFUL GASTRIC LAVAGE IS REQUIRED. THERE IS NO SPECIFIC A NTIDOTE. DIRECT TREATMENT TO CONTROL SYMPTOMS AND CLINICAL CONDITIONS.

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

HCC:B2

Boiling Pt:=171.C, 339.8F

Melt/Freeze Pt:=11.C, 51.8F

Decomp Temp:>260.C, 500.F

Vapor Pres:0.2

Vapor Density:2.10

Spec Gravity:1.018

Evaporation

Rate & Reference: