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UNION CARBIDE CORP LINDE DIV -- ETHYLENE GLYCOL, INDUSTRIAL GRADE -- 6810-00-006-4205

Product ID:ETHYLENE GLYCOL, INDUSTRIAL GRADE

MSDS Date:03/18/1992

FSC:6810

NIIN:00-006-4205

MSDS Number: BXYCF === Responsible Party ===

Company Name: UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

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

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

Ingred Name: ETHYLENE GLYCOL

CAS:107-21-1

RTECS #:KW2975000 Fraction by Wt: 100%

Other REC Limits: NONE RECOMMENDED

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:DIOXANE

CAS:123-9

1-1

Fraction by Wt: 0.026%

Other REC Limits: NONE RECOMMENDED

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-SWALLOWING: CARDIAC FAILURE ABD PULMONARY EDEMA MAY DEVELOP. INHALATION-MAY CAUSE IRRITATION OF THE NOSE & THROAT. EYE-LIQUID, VAPOR OR MIST CAUSES IRRITATION. CHRONIC-

REPEATED INHALATION OF MIS T MAY PRODUCE SIGNS OF CENTRAL NERVOUS SYSTEM INVOLVEMENT.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:SWALLOWING-MAY CAUSE ABDOMINAL PAIN OR
DISCOMFORT, NAUSEA, VOMITING, DIZZINESS, BLURRED VISION,
IRRITABILITY, LUMBAR PAIN. INHALATION-HEADACHE, NAUSEA, VOMITING,
NAUSEA, IRREGULAR EYE MOVEMENT. EYE-ST INGING, EXCESS BLINKING AND
TEAR PRODUCTION, WITH EXCESS REDNESS OF THE CONJUNCTIVA.

Medical Cond Aggravat

ed by Exposure:MAY AGGRAVATE AN EXISTING KIDNEY DIDEASE.

First Aid:SWALLOWING-IF CONSCIOUS, GIVE 2 GLASSES OF WATER, INDUCE VOMITING. OBTAIN MEDICAL AID WITHOUT DELAY. SKIN-REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP & WATER, OBTAIN MEDICAL AID FOR IRRITATION. INHALATION-REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF SYMPTOMS PERSISTS. EYE-FLUSH EYE THOROUGHLY WITH WATER FOR SEVERAL MINUTES.

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

Flash Point Method:TCC Flash Point:241F,116C

Lower Limits:3.2 Upper Limits:15.3

Extinguishing Media: APPLY ALCOHOL-TYPE OR ALL-PURPOSE FOAMS FOR LARGE FIRES. USE CARBON DIOXIDE OR DRY CHEMICAL FOR SMALL FIRES.

Fire Fighting Procedures:DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS; THIS MAT CAUSE FROTHING. USE SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Haz

| ard:NONE. |
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| ======== Accidental Release Measures ========= |
| Spill Release Procedures:SMALL SPILL CAN BE FLUSHED WITH LARGE AMOUNTS OF WATER; LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL. WEAR SUITBALE PROTECTIVE EQUIPMENT. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. |
| =========== Handling and Storage ============ |
| Handling and Storage Precautions:KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT |
| SWALLOW. DO NOT BREATHE MIST OR VAPOR. AVOID EYE CONTACT. Other Precautions:DANGER!! HARMFUL OR FATAL IF SWALLOWED. CAUSES EYE IRRITATION. |
| ====== Exposure Controls/Personal Protection ======== |
| Respiratory Protection:NONE SPECIFIED BY MANUFACTURER. Ventilation:GEMERAL (MECHANICAL) ROOM VENTILATION MAY BE ADEQUATE. PVC-CAOTED RUBBER. Protective Gloves:MONOGOGGLES OR FACE SHIELD. Eye Protection:EYE BATH, SAFETY SHOWER. Other Protective Equipment:NONE SPECIFIED BY MAN UFACTURER. Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health NONE |
| ========= Physical/Chemical Properties ========== |
| HCC:V5 Boiling Pt:>197.2C, 387.F Melt/Freeze Pt:=-12.6C, 9.F Vapor Pres:0.08 MMHG Vapor Density:2.1 Spec Gravity:1.115 Evaporation Rate & Description (N-BUTYL ACETATE=1) Solubility in Water:100% Appearance and Odor:TRANSPARENT COLORLESS, MILD SWEET, LIQUID. |
| ========= Stability and Reactivity Data ======= |

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Stability Indicator/Materials to Avoid:YES

STRONG ACIDS OR STRONG BASES AND SUBJECTED TO ELEVATED TEMPERATURES. STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:BURNING CAN PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.

======= Disposal Considerations ============

Waste Disposal Methods:INCINERATION IN A FURNANCE WHEREPERMITTED UNDER FEDERAL, STATE AND LOCAL REGULATIONS.

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