

UNION CARBIDE CORP. LINDE DIV -- CARBOWAX POLYETHYLENE GLYCOL 200 --
6810-01-257-1864

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

Product ID:CARBOWAX POLYETHYLENE GLYCOL 200

MSDS Date:01/07/1997

FSC:6810

NIIN:01-257-1864

MSDS Number: BGRLB

=== Responsible Party ===

Company Name:UNION CARBIDE CORP. LINDE DIV

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

CAGE:61637

=== Contractor Identification ===

Company Name:EMULTEC INDUSTRIAL PRODUCTS INC

Address:1150 HAYDEN DR SUITE 100

Box:City:CHARROLLTON

State:TX

ZIP:75006

Country:US

Phone:972-417-1288

CAGE:0WA27

Company Name:UNION CARBIDE CORP

Address:39 OLD RIDGEBURY ROAD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357/732-563-5522 (MSDS)

CAGE:61637

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

S

tate:CT
ZIP:06817-0001
Country:US
Phone:800-822-4357; 304-744-3487
CAGE:36346

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Composition/Information on Ingredients
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Ingred Name:POLYETHYLENE GLYCOL
CAS:25322-68-3
RTECS #:TQ3500000
Fraction by Wt: >95%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ETHYLENE GLYCOL (SARA 313) (CERCLA) (MONOETHYLENE GLYCOL)
CAS:107-21-1
RTECS #:KW2975000
Fraction by Wt: 1%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:C 50 PPM,VAPOR; 9495
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name
e:DIETHYLENE GLYCOL
CAS:111-46-6
RTECS #:ID5950000
Fraction by Wt: 5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POSSIBLE TRACE OF ETHYLENE OXIDE (SARA 302/313) (CERCLA)
CONSIDERED BY UNION CARBIDE NOT TO BE A HAZARD AT THIS CONC.
CAS:75-21-8
RTECS #:KX2450000
Fraction by Wt: TRACE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 PPM; SEE 1910.1047
ACGIH TLV:1 PPM, A2; 9495
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA 313) (CERCLA)
CAS:123-91-1
RT

ECS #:JG8225000
Fraction by Wt: 0.0005%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 100 PPM
ACGIH TLV:S, 25 PPM; 9495
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:ETHYLENE OXIDE (SARA 302/313) (CERCLA)
CAS:75-21-8
RTECS #:KX2450000
Fraction by Wt: 0.0005%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 PPM; SEE 1910.1047
ACGIH TLV:1 PPM, A2; 9495
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:FORMALDEHYDE (SARA 302/313) (CERCLA)
CAS:50-00-0
RTECS #:LP8925000
Fraction by Wt: TRACE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1048
ACGIH TLV:C 0.3 PPM, A2; 9495
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:NO HARMFUL EFFECTS FROM ONE TIME
EXPOSURE TO EYES, SKIN, INGESTION. NO SHORT TERM EFFECTS ARE
EXPECTED FROM INHALATION. PROLONGED &/OR REPEATED SKIN CONTACT MAY
CAUSE SKIN DEHYDRATION. OVEREXPOSURE TO VAPOR GENERATED AT HIGH
TEMPERATURES MAY CAUSE RESPIRATORY IRRITATION, NAUSEA.
Explanation of Carcinogenicity:MAY CONTAIN TRACE AMOUNTS OF ETHYLENE
OXIDE, LISTED BY ALL THREE AS CARCINOGENIC. UNION CARBIDE FEELS
PRODUCT IS SAFE.
Effects of Overexposure:POSSIBLE IRRITATION OF EYES, SKIN, RESPIRATORY
TRACT (HIGH TEMPERATURE VAPORS).
Medical Cond Aggravated by Exposure:MFR GAV

E NO INFORMATION OF MSDS.

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

First Aid:EYE:FLUSH THOROUGHLY W/WATER FOR SEVERAL MINUTES. SKIN:WASH W/SOAP & WATER. INHALATION:NO EMERGENCY CARE ANTICIPATED. INGESTION:NO EMERGENCY CARE ANTICIPATED.

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

Flash Point Method:PMCC

Flash Point:365F,185C

Lower Limits:N/DETERMINED

Upper Limits:N/DETERMINED

Extinguishing Media:USE ALCOHOL/ALL-PURPOSE TYPE FOAM BY MFG'S

INSTRUCTIONS FOR LARGE FIRES. USE CO2 OR DRY CHEMICAL MEDIA FOR SMALL FIRES.

Fire Fighting Procedures:DO NOT DIRECT WATER STREAM INTO HOT BURNING POOLS; MAY CAUSE FROTHING & INCREASE FIRE INTENSITY. USE SELF-CONTAINED BREATHING APPARATUS & PROTIVE CLOTHING.

Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:SMALL SPILLS CAN BE FLUSHED W/LARGE AMOUNTS OF WATER. COLLECT LARGE SPILLS FOR DISPOSAL.

Neutralizing Agent:MFR GAVE NO INFORMATION OF MSDS.

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

Handling and Storage Precautions:USE PRODUCT PROMPTLY AFTER OPENING. AVOID PROLONGED EXPOSURE TO HEAT/AIR. KEEP CONTAINER CLOSED. USE W/ADEQUATE VENTILATION.

Other Precautions:COMPLY W/OSHA ETHYLENE OXIDE STANDARD 29CFR1910.1047. ADDITIONAL PRODUCT SAFETY IS AVAILABLE FROM UNION CARBIDE CORPORATE SALES OR CUSTOMER SERVICE.

===== Exposure Control

s/Personal Protection =====

Respiratory Protection:NONE EXPECTED TO BE NEEDED.

Ventilation:GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY.

Protective Gloves:PVC-COATED GLOVES.

Eye Protection:SAFETY GLASSES OR MONOGOGGLES.

Other Protective Equipment:EYEBATH,SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER HANLDING.

Supplemental Safety and Health

NONE

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

HCC:N1

NRC/State Lic Num:NONE

Boil

ing Pt:B.P. Text:>392F,>200C

Melt/Freeze Pt:M.P/F.P Text:-85F,-65C

Decomp Temp:Decomp Text:>392F,>200C

Vapor Pres: