

VAN WATERS AND ROGERS INC -- ETHYLENE GLYCOL (REGULAR) -- 6850-00-664-1399

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Product Identification  
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Product ID:ETHYLENE GLYCOL (REGULAR)

MSDS Date:07/01/1993

FSC:6850

NIIN:00-664-1399

MSDS Number: BYRRR

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC

Address:6100 CARILLON POINT

City:KIRKLAND

State:WA

ZIP:98033

Country:US

Info Phone Num:206-889-3400

Emergency Phone Num:2

06-889-3400

CAGE:0STM5

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:VOPAK USA INC

Address:6100 CARILLON POINT

Box:City:KIRKLAND

State:WA

ZIP:98033-7357

Country:US

Phone:425-889-3400/425-889-3617

CAGE:0STM5

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Composition/Information on Ingredients  
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Ingred Name:ETHYLENE GLYCOL (SARA 313) (CERCLA)

CAS:107-21-1

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TECS #:KW2975000  
Fraction by Wt: >99%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:C 50 PPM,VAPOR; 9495  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:ORAL DL50 RATS 6000-13000MG/KG.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE:MAY CAUSE SLIGHT  
TRANSIENT(TEMP)IRRIT.CORNEAL INJURY UNLIKELY.VAP/MIST IRRIT.  
SKIN:ESSEN  
Tially NON-IRRIT. SKIN ABSORPTION:REPEATED EXPO TO LG  
QUANT MAY RESULT IN ABSORPTION OF HARMFUL AMTS. INGEST :SINGLE DOSE  
ORAL TOXICITY MODERATE.EXCESSIVE EXPO MAY CAUSE CNS  
EFFECTS,CARDIO-PULM EFFECTS,KIDNEY FAILURE.(SUPPLEMENT)  
Explanation of Carcinogenicity:PER MSDS:DID NOT CAUSE CANCER IN  
LONG-TERM ANIMAL STUDIES.  
Effects of Overexposure:EXCESSIVE EXPO IRRIT TO UPPER RESP TRACT.EXPO  
BY INHAL/SKIN PRIMARY ROUTES OF OCCUPATIONAL EXPO HAVE  
MINIMAL/ESSENTIALLY NO EFFECT O  
N FETUS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:IRRIGATE IMMED W/WATER FOR @LEAST 5MINS.SKIN:WASH OFF IN  
FLOWING WATER/SHOWER.INGEST:INDUCE VOMIT IMMED AS DIRECTED BY MED  
PERSON.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC.INHAL:REMOVE TO  
FRESH AIR. CONSULT PHYSICIAN.NOTE TO PHYSICIAN:EARLY ADM OF ETHANOL  
MAY COUNTER TOXIC EFFECTS-METABOLIC ACIDOSIS & RENAL  
DMG.HEMODIA  
LYSIS OR PERITONEAL DIALYSIS HAVE BEEN BENEFITIAL.TREAT  
BASED ON DR TO RESPONSES

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

Flash Point Method:SCC  
Flash Point:247F,119C  
Lower Limits:3.2  
Upper Limits:N/DETERMINED  
Extinguishing Media:WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL.  
Fire Fighting Procedures:WEAR POSITIVE-PRESSURE, SELF-CONTAINED  
BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:NONE EXPECTED UNDER NORMAL STORAGE/HNDLG  
CONDITIONS(I.E. AMBIENT TEMPS

).HOWEVER ETHYLENE GLYCOL OR SOLUTIONS  
OF ETHYLENE GLYCOL & WATER CAN FORM FLAMM (SUPPLEM)

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

Spill Release Procedures:AVOID ENTRY INTO SEWERS/NATURAL WATERS.SMALL  
SPILLS:SOAK UP W/ABSORBENT MATL.LARGE SPILLS:DIKE/PUMP INTO  
SUITABLE CNTNRS FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AVOID INGEST.  
PRACTICE REASONABLE

CAUTION/PERSONAL CLEANLINESS.AVOID SKIN/EYE CONTACT.

Other Precautions:TRACE QUANT OF ETHYLENE OXIDE MAY BE PRESENT IN  
PROD.WHILE THESE QUANT COULD ACCUMULATE IN HEADSPACE AREA OF  
STORAGE/TRANSP VESSELS THEY'RE NOT EXPECTED TO CREATE CONDITION  
RESULTING IN IN CONCEN >0.5 PPM(TWA)IN BREATHZONE.(OSHA 1.0PPM)

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

Respiratory Protection:ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BEL EXPO  
GUIDELINE.

WHEN RESP PROTECTION IS REQUIRED FOR CERTAIN OPERATIONS  
USE APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST  
CONDITIONS.LOCAL EXHAU VENTI MAY BE NECESSARY FOR SOME OPERATIONS

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:SAF GLASSES,FULL-FC RESP FOR EYE DISCOMF

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS AFTER HANLDING.

Supplemental Safety and Health

FIRE/EXPLO HAZ:VAP W/AIR IF HE

ATED SUFFICIENTLY. HEALTH HAZ:AMTS

INGESTED INCIDENTAL TO INDUSTRIAL HNDLG NOT LIKELY TO CUASE  
INJURY;HOWEVER INGEST OF LG AMTS COULD CAUSE SERIOUS  
INJURY,DEATH.INHAL:HEA T/SPRAY/AEROSOL CONCEN MAY BE ATTAINED  
SUFFICIENT TO CAUSE IRRIT/OTHER EFFECTS.

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

HCC:V5

Boiling Pt:B.P. Text:387F,197C

Vapor Pres:0.12 @25C

Vapor Density:2.14

Spec Gravity:1.1155

Solubility in Water:COMPLETELY MISCIBLE.

Appearance and Odor:COL

ORLESS LIQUID, PRACTICALLY ODORLESS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

OXIDIZING MATERIAL.

Stability Condition to Avoid: WILL IGNITE IN AIR @775F.

Hazardous Decomposition Products: BURNING PRODUCES NORMAL PRODUCTS OF COMBUSTION, SUCH AS CARBON MONOXIDE, CARBON DIOXIDE, & WATER.

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

Waste Disposal Methods: BURN IN APPROVED INCINERATOR IN ACCORDANCE W/AL

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LOCAL, STATE AND FEDERAL REGULATIONS, OR SALVAGE. CONTAINS CHEM SUBJECT TO SARA SEC313 TITLE III REPORTING: ETHYLENE GLYCOL.

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