

VAN WATERS AND ROGERS -- GLYCOL ETHER, EM -- 6850-00-060-5312

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Product Identification  
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Product ID:GLYCOL ETHER, EM

MSDS Date:03/21/1991

FSC:6850

NIIN:00-060-5312

MSDS Number: BNPX

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS

Address:1600 NORTH BLDG.

City:SEATTLE

State:WA

ZIP:93104-1564

Country:US

Info Phone Num:408-435-8700

Emergency Phone Num:408-435-8700 OR 303-338-5

651

CAGE:87664

=== Contractor Identification ===

Company Name:AMR COMBS-DENVER INC.

Address:2390 SYRACUSE

Box:City:DENVER

State:CO

ZIP:80207

Country:US

Phone:303-398-5600

CAGE:0KVJ2

Company Name:VAN WATERS AND ROGERS INC., UNIVAR CORP.

Address:1600 NORTON BLDG. 801 2ND AVENUE

Box:City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Phone:206-447-5911/800-424-9300(CHEMTREC)

CAGE:87664

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Composition/Information on Ingredients  
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Ingred Name:2-METHOXYETHANOL (EGME) (SARA III)

CAS:109-86-4  
RTECS #:KL5775000  
Fraction by Wt: >99.0%  
OSHA PEL:S, 25 PPM  
ACGIH TLV:S, 5 PPM; 9192

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2,460 GM/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:IRRITATION OF  
EYES,SKIN,RESPIRATORY OR G.I.TRACTS;CNS EFFECTS LIKE  
HEADACHE,DIZZINESS,NAUSEA,VOMITING AND POSSIBLE  
UNCONSCIOUSNESS;REDNESS OR BURNS OF EYES/SKIN  
POSSIBLE.CHRONIC:DRYING OF SKIN,DEFATTING OR DERMATITIS,CNS  
EFFECTS,BLOOD CHANGES,LIVER AND KIDNEY DAMAGE. LAB ANIMALS EXPOSED  
TO PRODUCT SHOW FETAL EFFECTS  
Explanation of Carcinogenicity:DATA PER MSDS  
Effects of Overexposure:EYE: IRRITATION. SKIN:POSSIBLE IRRITATION,  
ABSORPTION SHOWS EFFECTS SIMILAR TO INHALED. INHALED:DIZZINESS,  
HEADACHE, VOMITING OTHER CENTRAL NERVOUS SYSTEM EFFECTS. INGESTED:  
HEADACHE, DIZZINESS, NAUSEA, VOMITING  
, CONFUSION, POSSIBLE  
KIDNEYDAMAGE.  
Medical Cond Aggravated by Exposure:PEOPLE WITH ASTHMA, AND  
INFLAMMATORY OR FIBROTIC PULMONARY DISEASE

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING.  
GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER  
FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:  
REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF  
IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE  
VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE  
MEDICAL ATTENTION.

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

Flash Point Method:TCC  
Flash Point:103F,39C  
Lower Limits:2.5  
Upper Limits:19.8  
Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, FOAM, DRY  
CHEMICAL.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL

ICAL FIRE. USE WATER

SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND OR FLOOR, THEN 'FLASH BACK' FROM A DISTANT IGNITION SOURCE. IGNITION MAY OCCUR BELOW AUTOIGNITATION TEMP

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTION, AND ELIMINATE IGNITION SOURCES. SMALL SPILL,USE SUITABLE INERT ABSORBENT MATERIAL AND RECOVER

R FOR PROPER DISPOSAL IN AN APPROVED CONTAINER. LARGE SPILL, DIKE, RECOVER LIQUID, ABSORB REMAINDER & PLACE IN CONTAINER.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.KEEP AWAY FROM HEAT,OPEN FLAMES AND SPARKS.

Other Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR. TREAT THEM WITH THE

RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC. ON THEM. GROUND CONTAINERS DURING TRANSFER OF LIQUID. NOT FOR USE IN CONSUMER PRODUCTS .

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

Respiratory Protection:USE NIOSH/MSHA APPROVED SUPPLIED AIR RESPIRATOR OR SCBA AS REQUIRED IF ABOVE PEL/TLV OR IN AN ENCLOSED AREA.

Ventilation:CONFINE PRODUCT IN COVERED EQUIPMENT. GENERAL VENTILATION IS LIKELY ADEQUATE. ADD LOCAL EXHAUST WHERE VAPORS ARE EXPECTED

Protective Clothing

Materials:NEOPRENE, NITRILE, OR NATURAL RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER,WORK CLOTHING, SAFETY SHOES AND RUBBER APRON AS REQUIRED.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS. DO NOT

STORE IN ALUMINUM CONTAINERS.

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

HCC:F4

Boiling Pt:B.P. Text:256F,124C

Melt/Freeze Pt:M.P/F.P Text:-121F,-85C

Vapor Pres:6

Vapor Density:2.62

Spec Gravity:0.966

Evaporation Rate & Reference:0.6(N-BUTYL ACETATE = 1)

Solubility in Water:100 %

Appearance and Odor:CLEAR,COLORLESS LIQUID,MILD ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGE

NTS,ALKALIES.WATER,ALUMINUM,ZINC. MAGNESIUM.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN  
FLAMES, MOISTURE

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND  
OTHER UNIDENTIFIED COMPONENTS.

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

Waste Disposal Methods:KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS  
AND SOIL. DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS.  
MANUFACTURER MAKES NO SUGGESTIONS AS TO METHOD  
OF DISPOSAL.

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