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UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION -- ETHYLENE GLYCOL MIXTURE,

PM-3961 -- 6850-00-078-4459

Product ID:ETHYLENE GLYCOL MIXTURE, PM-3961

MSDS Date:03/21/1990

FSC:6850

NIIN:00-078-4459

MSDS Number: BCXNQ === Responsible Party ===

Company Name: UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION

Address:39 OLD RIDGEBURY ROAD

City: DANBURY

State:CT ZIP:0

6817-0001 Country:US

Info Phone Num:800-822-4357

Emergency Phone Num:304-744-3487

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: HF SCIENTIFIC INC. Address: 3170 METRO PARKWAY S.E.

City:FORT MYERS

State:FL

ZIP:33916-7539 Country:US

Phone:941-337-2116

CAGE:58177

Company Name: OCTAGON PROCESS INC.

Address:596 RIVER ROAD

Box:City:EDG

EWATER State:NJ ZIP:07020 Country:US

Phone:201-945-9400

CAGE:82925

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

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

Ingred Name: ETHYLENE GLYCOL (SARA III)

CAS:107-21-1

RTECS #:KW2975000 Fraction by Wt: 61.5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:C 50 PPM

ACGIH TLV:C 50 PPM, VAPOR; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:BENZOIC ACID, SODIUM SALT

CAS:532-32-1

RTECS #:DH6650000 Fraction by Wt: 1.5%

Other REC Limits: NONE SPECIFIED

Ingred Name: NON HAZARDOUS INGREDIENT(S)

Fraction by Wt: 37%

Other REC Limits: NONE SPECIFIED

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)

CAS:123-91-1

RTECS #:JG8225000 Fraction by Wt: 0.0016%

Other REC Limits: NONE SPECIFIED

OSHA PEL:S, 100 PPM

ACGIH TLV:S, 25 PPM; 9293

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

Ingred Name: METHYL ALCOHOL (METHANOL) (SA

RA III) CAS:67-56-1

RTECS #:PC1400000 Fraction by Wt: 0.0014%

Other REC Limits:NONE SPECIFIED OSHA PEL:S,200PPM/250STEL ACGIH TLV:S,200PPM/250STEL; 93

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:ACUTE ORAL LD50 (RAT) IS 8540 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: INGESTION:ABDOMINAL DISCOMFORT

OR PAIN, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION. SEVERE KIDNEY AND LIVER DAMAGE FROM LARGE AMOUNTS; MAY BE FATAL. INHALATION:IRRITATION OF THE NOSE AND THROAT. EYE:DISCOMFORT WITH TRANSIENT CONJUNCTIVITIS. CHRONIC:INHALATION OF MIST MAY PRODUCE SIGNS OF CNS DISTURBANCES.

Explanation of Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:INGESTION: MAY CAUSE ABDOMINAL DISCOMFORT,DIZZINESS, MAL

AISE, LUMBAR PAIN, NAUSEA, AND CENTRAL

NERVOUS SYSTEM DEPRESSION. LARGE AMOUNT MAY BAE FATAL.MAY CAUSE CARDIAC FAILURE. INHALATION:MAY CAUSE IRRI TATION TO RESPIRATORY TRACT. SKIN/EYES:MAY CAUSE IRRITATION WITH PERSISTENT CONJUNCTIVITIS.

Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF KIDNEY OR LIVER DISORDERS MAYBE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHALATION: REMOVE TO FRESH AIR. CA

LL A PHYSICIAN IF

DISCOMFORT PERSISTS. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. CALL A PHYSICIAN. SKIN: WASH WITH PLENTY OF SOAP & WATER.REMO VE CONTAMINATED CLOTHING/SHOES. INGESTION: IF CONSCIOUS, GIVE 2 GLASSES OF WATER TO DRINK AND INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point:NONE
Autoignition Temp:Autoignition Temp Text:NONE
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- xtinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.
- Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
- Unusual Fire/Explosion Hazard:AFTER WATER EVAPORATES, REMAINING MATERIAL WILL BURN.

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

- Spill Release Procedures:SMALL SPILL: WIPE/SOAK UP WITH PAPER TOWEL OR INERT ABSORBANT. PUT IN DISPOSAL CONTAINER. FLUSH RESIDUE WITH WATER. LARGE SPILL: VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN RUN OFF. VACUUM UP FREE LIQUID. FLUSH RESIDUE WITH WATER.
- Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. WATER DILUTION RECOMMENDED.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT

CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

- Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE AND DUST
- /MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29
 CFR 1910.134, INSTRUCTIONS/ WARNINGS AND NIOSH-RESPIRATOR
 SELECTION.
- Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS ADEQUATE IF USE IS ENCLOSED. LOCAL EXHAUST IS NEEDED IF VENTED INTO WORK AREA.
- Protective Gloves: NEOPRENE, NITRILE, PVC OR NATURAL RUBBER
- Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD
- Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work

Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

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

HCC:V5

Boiling Pt:=112.2C, 234.F Melt/Freeze Pt:=-60.C, -76.F

Vapor Pres:11 Vapor Density:2.1 Spec Gravity:1.0886

Evaporation Rate & Properties (N-BUTYL ACETATE = 1)

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, COLORLESS LIQUID, CHARACTERI

STIC SWEET ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS, AND STRONG BASES AT HIGH TEMPERATURES. REACTIVE WITH HYDROXYL COMPOUNDS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN.

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

Waste Disposal Methods:DISPOSAL SHOULD BE MADE BY INCINERA TION IN

ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. AT VERY LOW CONCENTRATIONS IN WATER, DISPOSE OF THIS MATERIAL IN A BIOLOGICAL W ASTEWATER TREATMENT PLANT.

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