

CHEMICAL SPECIALISTS AND DEVELOPMENT -- GLYCOL ETHER DM -- 6850-01-377-5075

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

Product ID:GLYCOL ETHER DM

MSDS Date:03/03/1997

FSC:6850

NIIN:01-377-5075

Status Code:A

MSDS Number: CJQCD

=== Responsible Party ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT

Address:5 HACKBERRY LANE

Box:3087

City:CONROE

State:TX

ZIP:77305

Country:US

Info Phone Num:409-756-1065/10

83 FAX DAVID /SHANAN

Emergency Phone Num:800-274-5263

Resp. Party Other MSDS Num.:999.0004672-005.001

CAGE:4N760

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

Contract Num:SP0450-99-M-NF06

CAGE:4N760

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

Ingred Name:DIETHYLENE GLYCOL MONOMETHYL ETHER

CAS:111-77-3

RTECS #:KL6125000

= Wt:100.

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===== Hazards Identification =====
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Health Hazards Acute and Chronic:EYES: MAY CAUSE MILD EYE IRRITATION.

SKIN: MAY CAUSE MILD SKIN IRRITATION. SWALLOWING: SWALLOWING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL. INHALATION: BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFEC

TS. BREATHING LARGE AMOUNTS MAY BE

AHRMFUL. SYMPTOMS USUALLY OCCUR AT C ONCENTRATION S HIGHER THAN THE RECOMMENDED EXPOSURE LIMITS. TARGET ORGANS: LIVER, TESTES, KIDNEYS.

Explanation of Carcinogenicity:NO DATA.

Effects of Overexposure:STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS).

Medical Cond Aggravated by Exposure:PRE-EXISTING DISORDERS OF THE LIVER, KIDNEYS, TESTES.

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===== First Aid Measures =====
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First Aid:EYES:IMMEDIATELY FLUSH GENTLY WITH WATER FOR AT LEAST 15 MINUTES, HOLD EYELIDS APART. IF SYMPTOMS DEVELOP, MOVE AWAY FROM EXPOSURE. SEEK MEDICAL ATTENTION. SWALLOWING: SEEK MEDICAL ATTENTION. IF SLEE PY OR DROWSY, NOTHING BY MOUTH. IF CONSCIOU/ALERT, GIVE SYRUP OF IPECAC OR STICK FINGERS DOWN THROAT. DO NOT LEAVE PERSON UNATTENDED. SKIN:REMOVE CONTAMINATED CLOTHES. WASH EXPOSED AREA WITH SOAP & WA TER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUN DER CLOTHES BEFORE RESUE.

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===== Fire Fighting Measures =====
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Flash Point Method:SCC

Flash Point:~91.7C, 197.F

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:WATER MAY BE USED TO EXTINGUISH FIRE BY COOLING, AND DILUTING LIQUID WITH WATER. WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRES

SURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT. NEVER USE WELDING, CUTTING TORCH ON DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY

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

Spill Release Procedures: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT MATERIAL & TRANSFER TO HOOD. LARGE SPILL: ELIMINATE SOURCES OF IGNITION. EXCLUDE UNPROTECTED PERSONS FROM SPILL AREA UNTIL CLEAN-UP COMPLETED. STOP SPILL AT SOURCE. PREVENT FROM SPREADING. KEEP OUT OF SEWERS, WATERWAYS. NOTIFY AUTHORITIES IF RUN-OFF OCCURS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. EMPTIES MAY RETAIN RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS MUST BE GIVEN IN THE MSDS MUST BE OBSERVED. ALL CONTAINERS SHOULD BE BONDED & GROUNDING DURING MATERIAL TRANSFERS.

Other Precautions: SUDDEN RELEASE OF HOT ORGANIC VAPORS OR MISTS FROM PROCESS EQUIPMENT DURING OPERATIONS INVOLVING ELEVATED TEMPERATURES & PRESSURE, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES.

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

Respiratory Protection: IF OVEREXPOSURE HAS BEEN DETERMINED/ DOCUMENTED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE SAFETY EQUIPMENT SUPPLIER.) ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EX

POSURE.

Ventilation:PROVIDE SUFFICIENT MECHANICAL(GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW LEVEL OF OVEREXPOSURE.

Protective Gloves:NITRILE RUBBER

Eye Protection:CHEMICAL SPASH GOGGLES

Other Protective Equipment:IMPERVIOUS CLOTHING AND BOOTS. EMERGENCY EYE WASH STATIONS & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF POTENTIAL EXPOSURE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health
NONE SPECIFIED BY
MANUFACTURER.

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

HCC:V4

Boiling Pt:B.P. Text:N/D

Melt/Freeze Pt:=-85.C, -121.F

Vapor Pres:.000 @ 68F

Vapor Density:4.150

Spec Gravity:1.021 - 1.025

pH:N/D

VOC Grams/Liter:8.51

Viscosity:3.4 CPS

Evaporation Rate & Reference:.02 (N-BUTYL ACETATE)

Solubility in Water:COMPLETELY MISCIBLE

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

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH: STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:STABLE.

Hazardous Decomposition Products:MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE.

Conditions to Avoid Polymerization:PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

===== Toxicological Information =====

Toxicological Information:NO DATA.

===== Ecological Information =====

Ecological:

NO DATA.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:US DOT: COMBUSTIBLE LIQUID, NOS, NA1993, PGIII (ONLY IF CARRIED IN BULK PACKAGING---CONTAINER LARGER THAN 119 GALLONS).

===== Regulatory Information =====

SARA Title III Information:SARA 302

COMPONENTS: NONE. SECTION 311/312

HAZARD CLASS: DELAYED, FIRE. SARA 313 COMPONENTS: DIETHYLENE GLYCOL MONOMETHYL ETHER, CAS # 111-77-3, 100%.

Federal Regulatory Information:TSCA: THE INTENTIONAL INGREDIENTS OF THIS PRODUCT ARE LISTED. CERCLA RQ (40 CFR 302.4(A)) : NONE LISTED.

State Regulatory Information:CALIFORNIA PROPOSITION 65: NONE. NEW

JERSEY RTK LABEL INFORMATION: DIETHYLENE GLYCOL MONOMETHYL ETHER, CAS # 111-77-3. PENNSYLVANIA RTK LABEL INFORMATION: ETHANOL,

2-(

2-METHOXYETHOXY)-, CAS # 111-77 -3.

===== Other Information =====

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