

ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC -- GLYCOL ETHER DM, 3600000 --
6850-01-089-5514

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

Product ID:GLYCOL ETHER DM, 3600000

MSDS Date:03/03/1997

FSC:6850

NIIN:01-089-5514

Status Code:A

MSDS Number: CLQGC

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info Phone Num:614-790-3333 / 800-325-3751

Emergency Phone Num:800-274-5263 OR 800-ASHLAND

Resp. Party Other MSDS Num.:999.0004672-005.001

CAGE:7L600

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO DIV OF ASHLAND OIL INC

Address:3849 FISHER RD

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Phone:614-790-3333 / 800-325-3751

CAGE:7L600

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:40

9-756-1065

Contract Num:SP0450-02-M-M099

CAGE:4N760

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

Ingred Name:DIETHYLENE GLYCOL MONOMETHYL ETHER

CAS:111-77-3

RTECS #:KL6125000

= Wt:100.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

SKIN-MAY CAUSE MILD SKIN IRRITATION. SWALLOWING-SWALLOWING SMALL AMOUNTS OF THIS MATER

IAL DURING NORMAL HANDLING IS NOT LIKELY TO

CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.

INHALATION-BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING SMALL

AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO

CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL.

TARGET ORGAN EFFECTS-OVEREXPOSURE TO THIS MATERIAL HAS BEEN

SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LAB ANIMALS, & MAY

AGGRAVATE PRE-EXISTING DISORDERS OF THE

SE ORGANS IN HUMANS: LIVER

ABNORMALITIES, TESTIS

Explanation of Carcinogenicity:CANCER INFORMATION: NO DATA.

Effects of Overexposure:SIGNS AND SYMPTOMS OF EXPOSURE TO THIS MATERIAL

THROUGH BREATHING, SWALLOWING, AND/OR PASSAGE OF THE MATERIAL

THROUGH THE SKIN MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS).

EYE-SYMPTOMS INCLUDE STINGING, TEARING, & REDNESS. SKIN-SYMPTOMS

MAY INCLUDE REDNESS & BURNING OF SKIN. INH

ALATION- SYMPTOMS USUALLY

OCCUR AT AIR CONCENTRATIONS HIGHER THAN THE RECOMMENDED EXPOSURE LIMITS.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE PRE-EXISTING

DISORDERS OF ORGANS IN HUMANS: LIVER ABNORMALITIES, TESTIS DAMAGE, KIDNEY DAMAGE.

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

First Aid:EYES-IMMEDIATELY FLUSH EYES GENTLY WITH WATER 15 MINS,

HOLDING EYELIDS APART. IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE AWAY

FROM EXPOSURE INTO FRESH AIR

BEFORE FLUSHING. SEEK IMMEDIATE
MEDICAL AID. SKIN -REMOVE SOILED CLOTHES. WASH EXPOSED AREA WITH
SOAP & WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL AID.
SWALLOWING-SEEK MEDICAL AID. IF DROWSY OR UNCONSCIOUS, DO NOT GIVE
ANYTHING BY MOUTH; PLACE ON LEFT SIDE, HEAD DOWN. IF CONSCIOUS &
ALERT, INDUCE VOMITING (GIVE SYRUP OF IPECAC/FINGER IN THROAT). DO
NOT LEAVE. INHALE-REMOVE FROM EXPOSURE & INTO FRESH AIR. SEEK
IMMEDIATE MEDICAL AID. IF NOT BREATHING, BEGIN CPR OR GI
VE OXYGEN.

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

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:CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.
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
PRESSURE DEMAND MOD
E WITH APPR OPRIATE 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 OR CUTTING
TORCH ON OR NEAR DRUM (EVEN EMPTY). EVEN JUST RESIDUE CAN IGNITE
EXPLOSIVELY.

===== Accidental Release Mea
sures =====

Spill Release Procedures:SMALL SPILL-ABSORB LIQUID ON VERMICULITE,
FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL & TRANSFER TO HOOD.
"SEE OTHER INFORMATION"

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

Handling and Storage Precautions:CONTAINERS OF THIS MATERIAL MAY BE
HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINER RETAIN PRODUCT
RESIDUES, ALL HAZARD PRECAUTIONS GIVEN ON THIS MSDS MUST BE
OBSERVED. ALL 5-GAL PAILS & LARGER M

ETAL C ONTAINERS, (TANK CARS & TANK TRUCK), SHOULD BE GROUNDED & BONDED WHEN MATERIAL IS TRANSFERRED.

Other Precautions:EMERGENCY EYEWASH FOUNTAIN & SAFETY SHOWER SHOULD BE AVAILABLE IN THE IMMEDIATE VINCINITY OF POTENTIAL EXPOSURE.
WARNING. SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE & PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS.

=====
Exposure Contro
ls/Personal Protection =====

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

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

Protective Gloves:WEAR RESISTANT -NITRILE RUBBER, TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

Eye Protection:CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED.

Other Protective Equipment:WEAR IMPERVIOUS BOOTS, CLOTHES TO PREVENT PROLONGED/REPEATED SKIN CONTACT. OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. CONSULT YOUR SAFETY REPRESENTATIVE.

Supplemental Safety and He
alth

NFPA RATING: HEALTH-1, FLAMMABILITY-2, REACTIVITY-0.

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

HCC:V4

Boiling Pt:=192.2C, 378.F

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

Vapor Pres: .000@68.00F

Vapor Density:4.150

Spec Gravity:1.021-1.025@68F

pH:N/D

VOC Grams/Liter:8.51

Viscosity:3.4 CPS

Evaporation Rate & Reference:0.02 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETELY MISCIBLE

Appearance and Odor:NEAT, PT-C0 COLOR 8, CLEAR, COLORLESS LIQUID; MILD ODOR.

Percent Vol

===== 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 MONOXIDE AND CARBON DIOXIDE.
Conditions to Avoid Polymerization: PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

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

Toxicological Information: EXPOSURE GUIDE
LINES: COMPONENT: DIETHYLENE
GLYCOL MONOETHYL ETHER (111-77-3) OTHER LIMIT 30.000PPM - TWA (SUPPLIER RECOMMENDATIONS). DEVELOPMENTAL INFORMATION: THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMAL STUDIES. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNCERTAIN. OTHER HEALTH EFFECTS: NO DATA.

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

Ecological: NO DATA.

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

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

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

Transport Information: DOT INFORMATION - 49 CFR 172.101. DOT DESCRIPTION: COMBUSTIBLE LIQUID, N.O.S., COMBUSTIBLE LIQUID, NA193, III. CONTAINER/MODE: 55 GAL DRUM/TRUCK PACKAGE. NOS COMPONENT: DIETHYLENE GLYCOL MONOETHYL ETHER. RQ (REPORTABLE QUANTITY)-49 CFR 172.101: NOT APPLICABLE.

===

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

SARA Title III Information:SARA 302 COMPONENTS-40 CFR 355 APPENDIX A:
NONE. SECTION 311/312 HAZARD CLASS-40 CFR 370.2: DELAYED, FIRE.
SARA 313 COMPONENTS-40 CFR 372.65: DIETHYLENE GLYCOL MONOETHYL
ETHER, 111-77-3, 100.00%.

Federal Regulatory Information:TSCA (TOXIC SUBSTANCE CONTROL ACT)
STATUS: TSCA (UNITED STATES) THE INTENTIONAL INGREDIENTS OF THIS
PRODUCT ARE LISTED. CERCLA RQ-40 CFR 302.4(A): NOT LISTED.

State Regulatory Information:CALIFORNIA PROPOSITION 65: NONE. NEW
JERSEY RTK LABEL INFORMATION AND PENNSYLVANIA RTK LABEL
INFORMATION: DIETHYLENE GLYCOL MONOMETHYL ETHER, 111-77-3.

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants
this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.