

MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION -- ETHYLENE GLYCOL -- 6810-00-825-7472

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

Product ID:ETHYLENE GLYCOL

MSDS Date:01/01/1987

FSC:6810

NIIN:00-825-7472

MSDS Number: BFRJK

=== Responsible Party ===

Company Name:MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

Emergency Phone Num:314 982 5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SP

ECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

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

Ingred Name:ETHYLENE GLYCOL (SARA III)

CAS:107-21-1

RTECS #:KW2975000

Fraction by Wt: >99%

OSHA PEL:C 50 PPM

ACGIH TLV:C 50 PPM,VAPOR; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

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

Effects of Overexposure:INH:DIZZ,HEAD,PULMONARY EDEM

A;ING:CAUSES

VOMIT,HEAD,LOW BLD PR;EYES/SKIN:MINOR/SEVERE IRRITATION.

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

First Aid:INHAL:RMV TO FRESH AIR.GIVE CPR/OXYGEN IF BREATHING IS
DIFFICULT.GET MD;INGEST:IMMED INDUCE VOMIT BY GIVING 2 GL OF
WATER.NOTHING BY MOUTH IF UNCONSCIOUS.GET MD IMMED;SKIN/EYES:FLUSH
IMMED W/LG QTY H* 20 FOR 15 MIN.RMV CONTMNTD CLOTHES.GET MED ATTN.

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

Flash Point:

110C(230F)

Lower Limits:3.2

Upper Limits:15.3

Extinguishing Media:ALCOHOL FOAM,WATER,CO*2,DRY CHEMICAL.WATER/FOAM MAY FROTH.

Fire Fighting Procedures:WEAR SELF-CNTD BRTHG,APP H*20 SPRAY TO COOL CONTR.

Unusual Fire/Explosion Hazard:MODERATE HAZARD WHEN EXPOSED TO HEAT OR FLAME

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

Spill Release Procedures:VENTILATE AREA OF SPILL.CLEAN UP PERSONS NEED PROTCTV CLOTHG/RESP PROTCTION FM VAP.COLLECT LIQUID & PLACE IN A

SUITABLE CONTAINER FOR RECOVERY OR DISPOSAL.WASH RESIDUE & SMALL SPILLS TO SEWER W/COPIOU S AMTS OF WATER.REMOVE ALL SOURCES OF IGNITION.

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

Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTNRS AT COOL,DRY, VENTILATED PLACE. PROTECT AGAINST PHY DAMAGE.

Other Precautions:AVOID BREATHING MIST.USE W/ADEQUATE VENTILATION.KEEP CONTAINERS CLOSED.WASH THOROUGHLY AFTER HANDLING.AVOID SKIN,EYES & CLOTHING CONTACT.DO NOT EAT IN WORK AREA.

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

Respiratory Protection:FULL FACE RESPIRATOR

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:GOGGLES/FACE SHIELD

Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION

Supplemental Safety and Health

MSDS FROM MFR DATED 01/28/85,CONFORMS TO OSHA HAZ COMM STD; SP GRAVITY RANGE:1.112-1.115

===== Physical/

Chemical Properties =====

HCC:V5

Boiling Pt:B.P. Text:193C(379F)

Vapor Pres: .05

Vapor Density:2.14

Spec Gravity:1.1135

Evaporation Rate & Reference:1.0(CCL*4=1)

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQID.ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS,CORROSIVE MATL;OLEUM,H*2SO*4,HCL*4,ETC.

Stability Condition to Avoid:IGNITION & MOISTURE SOURCES.

Hazardous Decompos

ition Products:OXIDES OF NITROGEN & CARBON WHEN
IGNITED IN AIR.

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

Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECLAMATION MAY BE
DISPOSD AS HAZ WASTE IN A RCRA APPRVD WASTE DISPOSAL FACILITY OR
MIX WITH A MORE FLAMMABLE SOLVENT AND ATOMIZE IN AN APPROVED
INCINERATION.ENSURE COMPLI ANCE W/LOCAL,,STATE, & FEDERAL
REGULATIONS.

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