

ASHLAND CHEMICAL COMPANY -- ETHYLENE GLYCOL TECH -- 6810-01-008-4316

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

Product ID:ETHYLENE GLYCOL TECH

MSDS Date:05/31/1989

FSC:6810

NIIN:01-008-4316

MSDS Number: BQMHV

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL COMPANY

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Info Phone Num:800-274-5263

Emergency Phone Num:800-274-5263

CAGE:34897

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Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Phone:614-790-3333/800-274-5263

CAGE:34897

Company Name:TEXAS INSTRUMENTS INC DEFENSE SYSTEM & ELECTRONICS

Address:8505 FOREST LN

Box:660246

City:DALLAS

State:TX

ZIP:75266-0246

Country:US

CAGE:96214

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

Ingred Name:ETHYLENE GLYCOL (SARA III)

CAS:107-21-1

RTECS #:KW2975000

Fraction by Wt: 100%

Other REC Limits:N

ONE SPECIFIED
OSHA PEL:C 50 PPM
ACGIH TLV:C 50 PPM,VAPOR; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:PEL=50PPM;TLV=50PPM (BOTH CEILING)
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES:IRRITANT.SKIN:SLIGHT
IRRITANT.INHAL:NASAL AND RESPIRATORY IRRITATION.INGEST:CAN CAUSE
GASTROINTESTINAL IRRITATION.CHRONIC EF
FECTS ARE BIRTH
DEFECTS,KIDNEY AND LIVER DAMAGE AND CENTRAL NERVOUS SYS TEM
EFFECTS.
Explanation of Carcinogenicity:RTECS 92-4 SHOWS MONOGRAPHS ON ETHYLENE
GLYCOL AS A MUTAGEN,TUMORIGEN,REPRODUCTIVE EFFECTOR.
Effects of Overexposure:INGEST:NAUSEA,VOMITING,DIARRHEA.
Medical Cond Aggravated by Exposure:HMIS SUGGESTS THAT PERSONS WITH A
HISTORY OF KIDNEY OR LIVER DISORDERS MAYBE AT INCREASED RISK FROM
EXPOSURE.

===== First Aid Measures =====
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First Aid:EYE:FLUSH W/ WATER 15 MIN HOLD LIDS OPEN. SKIN:REMOVE
CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. WASH WITH SOAP &
WATER. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY.
INGESTED:GIVE 2 GLASSES WATER AND INDUCE VOMITING(BYIPECAC OR
FINGER DOWN THROAT). GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET
IMMEDIATE MEDICAL CARE. IF IRRITATION PERSISTS,OR IS SEVERE,SEE A
DOCTOR.

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

Flash
Point Method:TCC
Flash Point:232F,111C
Lower Limits:3.2
Upper Limits:15.3
Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, OR WATER
FOG.WATER OR FOAM MAY CAUSE FROTHING.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:CONTAINERS ARE AN EXPLOSION HAZARD.

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

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

===== 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:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR. DO NOT PRESSURIZE,CUT,WELD,BRAZE,ETC. NEAR THEM.

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

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE. Ventilati on:NORMAL VENTILATION IS USUALLY SUFFICIENT. SUPPLEMENT WITH LOCAL EXHAUST IF PEL/TLV IS EXCEEDED. Protective Gloves:NEOPRENE, NITRILE, PVC OR NATURAL RUBBER Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. AVOID PROLONGED AND/OR REPEATED CONTACT BY USING APPROPRIATE CLOTHING. Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING. Supplemental Safety and Health POISONOUS.

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

HCC:V5
Boiling Pt:=193.C, 379.4F
Vapor Pres:0.1
Vapor Density:2.2
Spec Gravity:1.115
Evaporation Rate & Reference: