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SIGMA CHEMICAL CO -- ETHYLENE GLYCOL MONOMETHYL ETHER, E5378 -- 6810-01-467-0894

Product ID:ETHYLENE GLYCOL MONOMETHYL ETHER, E5378

MSDS Date:12/01/1999

FSC:6810

NIIN:01-467-0894 Status Code:A

MSDS Number: CLHGS === Responsible Party ===

Company Name: SIGMA CHEMICAL CO

Box:14508

City:SAINT LOUIS

State:MO ZIP:63178 Country:US

Info Phone Num:314-771-5765 / 800-325-

3010

Emergency Phone Num:1-314-771-5765

CAGE:20176

=== Contractor Identification ===

Company Name: SIGMA CHEMICAL CO

Box:14508

City:SAINT LOUIS

State:MO ZIP:63178 Country:US

Phone: 314-771-5765 / 800-325-3010

CAGE:20176

Company Name: SIGMA-ALDRICH CORP

Address:3050 SPRUCE ST

Box:14508 City:ST LOUIS State:MO ZIP:63103 Country:US

Phone:800-505-6275/314-771-5765

CAGE:1FPM8

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

Ingred Name: ETHYLENE GLYCOL MONOMETHYL ETHER. (MOLECULAR F

C3H8O2. EC NO.: 203-713-7.)

CAS:109-86-4

RTECS #:KL5775000

OSHA PEL:80 MG/M3;25 PPM TWA

ACGIH TLV:16 MG/M3;5 PPM

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

LD50 LC50 Mixture:ORAL RAT LD50 = 2370 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:CONTAINS ETHYLENE GLYCOL MONOMETHYL ETHER WHICH APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZA

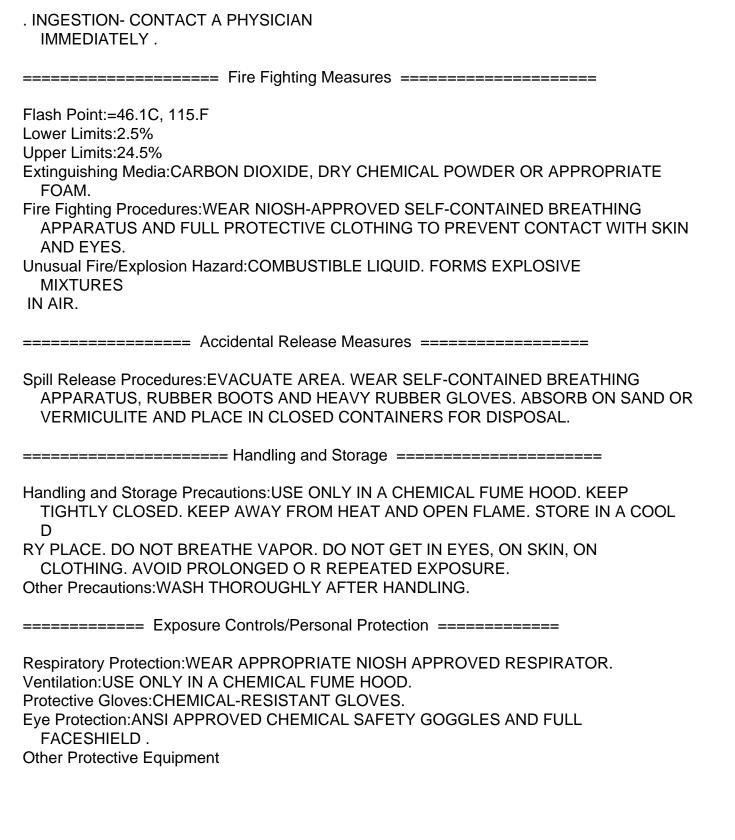
RDS LIST. SEEK CONSULTATION FROM APPROPRIATE HEALTH
PROFESSIONALS CONCERNING SAFE HANDLING AN D EXPOSURE INFORMATION.
ACUTE EFFECTS: DAMAGE TO THE KIDNEYS AND LIVER. EXPOSURE CAN CAUSE:
BLOOD EFFECTS, CAUSES SKIN IRRITATION. HARMFUL IF SWALLOWED,
INHALED, OR ABSORBED THROUGH SKIN. VAP OR OR MIST IS IRRITATING TO
THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. MAY CAUSE
NERVOUS SYSTEM DISTURBANCES. CHRONIC EFFECTS: MAY CAUSE CONGENITAL
MALFORMATION IN THE FE

TUS. MAY CAUSE RE PRODUCTIVE (SYMPTOMS OF OVEREXPOS)

Effects of Overexposure:HEALTH HAZARDS ACUTE AND CHRONIC (CON'T): DISORDERS. TARGET ORGANS: DAMAGE TO THE KIDNEYS. DAMAGE TO THE LIVER. BLOOD, KIDNEYS, LIVER, LUNGS, CENTRAL NERVOUS SYSTEM, MALE REPRODUCTIVE SYSTEM, IMMUNE S YSTEM, THYMUS AND BONE MARROW. IN LABORATORY STUDIES WITH THIS MATERIAL, BIRTH DEFECTS, FETOTOXICITY, EMBRYOLETHALITY, ANEMIA, BONE MARROW DAMAGE, HEMOLYSIS, IMMUNOSUPRESSION AND DAMAGE TO THE

MALE R EPRODUCTIVE TISSUES HAVE BEEN OBSERVED.

First Aid:IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHI NG GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS



:EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA. WEAR OTHER PROTECTIVE CLOTHING. Work Hygienic Practices: WASH HANDS AFTER HANDLING. Supplemental Safety and Health SYNONYMS: AETHYLENGLYKOL-MONOMETHYLAETHER; DOWANOL 7; DOWANOL EM; ETHER MONOMETHYLIQUE DE L'ETHYLENE-GLYCOL; ETHYLENE GLYCOL METHYL ETHER; GLYCOL ETHER EM; GLYCOLMETHYL ETHER GLYCOL MONOMETHYL ETHER; JEFFERSON EM; 2-METHOXY-AETHANOL; METHOXYETHANOL; 2-METHOXYETHANOL (ACGIH:OSHA); METHYL ETHOXOL; (OTHER I NFORMATION) ======== Physical/Chemical Properties ============ Boiling Pt:=124.C, 255.2F B.P. Text:124-125C Melt/Freeze Pt:=-85.C, -121.F Vapor Pres:6.17 MMHG Vapor Density: 2.62 G/L Spec Gravity:0.965 Appearance and Odor: NONE SPECIFIED BY MANUFACTURER ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES **OXIDIZING AGENTS** Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE. ====== Toxicolog ical Information ======== Toxicological Information: IN LABORATORY STUDIES WITH THIS MATERIAL, BIRTH DEFECTS, FETOTOXICITY, EMBRYOLETHALITY, ANEMIA, BONE MARROW DAMAGE, HEMOLYSIS, IMMUNO-SUPPRESSION AND DAMAGE TO THE MALE REPRODUCTIVE TISSUES HAVE BEEN OBSERVED. IRRITATION DATA: SKIN-RBT 483 MG/24H MLD. EYE-RBT 97 MG; EYE-RBT 500 MG/24H MLD; EYE-GPG 10 UG MLD. TOXICITY DATA: ORAL HMN LDL0:3380 MG/KG; ORAL RAT LD50: 2370 MG/KG; IHL RAT LC50: 1500 PPM /7H; IPR R AT LD50: 2500 MG/KG;

IVN RAT LD50: 2068 MG/KG; ORL MUS LD50: 2560 MG/KG. IHL-MUS LC50: 1480 PPM/7H; IPR-MUS LD50: 2147 MG/KG; ORL-RBT LD50: 890 MG/KG; SKN-RBT LD50: 1280 MG/KG; ORL-GPG LD50: 950 MG/KG. (SEE ECOLOGICAL SECTION)

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

Ecological: DATA NOT YET AVAILABLE. TOXICOLOGICAL (CON'T): TARGET ORGAN DATA: BEHAVIORAL (GENERAL ANESTHETIC, TREMOR, CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD, CHANGE IN MOTO

R ACTIVITY, ANALGESIA); LUNGS, THO RAX OR RESPIRATION (DYSPNAE); GASTROINTESTINAL (OTHER CHANGES); KIDNEY, URETER, BLADDER (HEMATURIA, OTHER CHANGES); BLOOD (OTHER HEMOLYSIS WITH OR WITHOUT ANEMIA); PATERNAL EFFECTS (SPERMATOGENESIS, TESTES, EPIDIDYMIS, SPERM DUCT); MATERIAL EFFECTS (PARTURITION); EFFECTS ON FERTILITY (FEMALE FERTILITY INDEX, POST-IMPLANTATION MORTALITY, LITTER SIZE, ABORTION); EFFECTS ON EMBRYO OR FETUS (FETOTOXI CITY, FETAL DEATH); (SEE TRANSPORT
INFO)
========= Disposal Considerations ==============
Waste Disposal Methods:THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A CHEMICAL INCINERATOR EQUIPPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
========= MSDS Transport Information =============
Transport Information:CONTACT SIGMA CHEMICAL CO FOR TRANSPORTATION INFORMATION. ECOLOGICAL (CON'T): SPECIFIC DEVELOPMENTAL ABNORMALITIES (
CENTRAL NERVOUS SYSTEM, CRANIOFACIAL, BODY WALL, MUSCULOSKELETAL SYSTEM, CARDIOVAS CULAR SYSTEM, GASTROINTESTINAL SYSTEM, UROGENITAL SYSTEM); EFFECTS ON NEWBORN (LIVE BIRTH INDEX, VIABILITY INDEX, GROWTH STATISTICS, BIOCHEMICAL AND METABOLIC). ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.
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SARA Title II

I Information: THIS PRODUCT IS SUBJECT TO SARA SEC 313 REPORTING REQUIREMENTS. REGULATORY INFORMATION: EUROPEAN INFORMATION: EC INDEX NO: 603-011-00-4. FLAMMABLE. TOXIC. R 60: MAY IMPAIR FERTILITY. R 61: MAY CAUSE HARM TO THE UNBORN CHILD. R 10: FLAMMABLE. R 20/21/22: HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. S 53: AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. S 45: IN CASE OF ACC IDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIA

TELY (SHOW LABEL WHERE POSSIBLE).

Federal Regulatory Information:THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. EPA TSCA SECTION 8(B) CHEMICAL INVENTORY. EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES. EPA TSCA SECTION 8(E) RISK NOTIFIC ATION, 8EHQ-0892-9101. ON EPA IRIS DATABASE. EPA TSCA TEST SUBMISSION (TSCATS) DATABASE, SEPTEMBER 1999. NIOSH CURRENT INTELLIGENCE BULLETIN #39. NIOSH ANALYTICAL METHOD, 1994: ALCOHOLS IV, 1403. NTP TOXI

RPT # TOX-26, SEPT 1999. OSHA ANALYTICAL METHOD #53. NIOSH REL TO ETHYLENE GLYCO L MONOMETHYL ETHER-AIR: 10H TWA 0.1 PPM (SK), NIOSH DHHS #92-100, 1992. CONTACT NEHC FOR ADDITIONAL INFORMATION ON REVIEWS AND STANDARDS

State Regulatory Information: CALIFORNIA PROPOSITION 65 - THIS PRODUCT IS OR CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE MALE REPRODUCTIVE TOXICITY. THIS PRODUCT IS OR CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNI

A TO CAUSE

CITY STUDIES.

DEVELOPMENTAL TOXICITY. SUPP SAFETY (CON'T):
METHOXYHYDROXYETHANE; METHYL CELLOSOLVE (OSHA); METHYLCELOSOLV;
METHYL GLYCOL; METHYL OXITOL; METIL CELLOSOLVE; MONOMETHYL ETHER OF
E THYLENE GLYCOL; POLYSOL EM; PRIST; METOSSIETANOLO; METOKSYETYLOWY
ALKOHOL; METHYLGLYKOL.

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

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e Department

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