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DOW CHEMICAL U.S.A. -- DOWANOL DM GLYCOL ETHER -- 6850-01-377-5075

Product ID: DOWANOL DM GLYCOL ETHER MSDS Date:03/23/1999 FSC:6850 NIIN:01-377-5075 **MSDS Number: CJPHN** === Responsible Party === Company Name: DOW CHEMICAL U.S.A. Address: CHEMICAL AND METALS DEPARTMENT City:MIDLAND State:MI ZIP:48674 Country:US Info Phone Num:800-258-2436/517-636-4400 **Emergency Phon** e Num:517-636-4400 CAGE:96717 === Contractor Identification === Company Name: DOW CHEMICAL CO Address:100 LARKIN CENTER Box:City:MIDLAND State:MI ZIP:48674 Country:US Phone:800-258-2436 CAGE:96717 Company Name: HOC INDUSTRIES, INC Address:3511 N. OHIO Box:2609 City:WICHITA State:KS ZIP:67219 Country:US Phone:316-838-4663 Contract Num:SP0450-01-M-ZD25 CAGE:0A9L8 Company Name: HOC INDUSTRIES, INC Address:3511 N. OHIO Box:2609 City:WICHITA State:KS ZIP:67219 Country:US Phone:316-838-4663 Contract Num:

SP0450-99-M-NC11
CAGE:0A9L8

Ingred Name:DIETHYLENE GLYCOL METHYL ETHER CAS:111-77-3 RTECS #:KL6125000 Fraction by Wt: 99% Other REC Limits:30 PPM PER MFR

LD50 LC50 Mixture:ORAL LD50: 3200 MG/KG (RATS) Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: MAY CAUSE SL IGHT TRANSIENT IRRITATION.SKIN: PROLONGED OR REPEATED CONTACT NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRIATION. INGESTION:SINGLE DOSE ORAL TOXICITY IS LOW.SWALLOWING LARGE AMOUNTS MAY C AUSE INJURY. INHALATION: SINGLE EXPOSURE NOT EXPECTED TO BE HAZARDOUS.TARGET ORGANS:KIDNEY, LIVER, TESTES AT VERY HIGH DOSES. Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT

CONCENTRATIONS OF 0.1% OR GREATER THAT A CARCINOGENS.

Effects of

Overexposure:EYE IRRITATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHI NG. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET T MEDICAL HELP.

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Flash Point Method:SCC Flash Point:=91.7C, 197.F Lower Limits:1.38% Upper Limits:22.7% Extinguishing Media:WATER FOG, ALCOHOL RESISTANT FOAM, CARBON DIOXIDE, DRY CHEMICAL. DO NOT USE DIRECT STREAM OF WATER. Fire Fighting Procedures:ISOLATE FIRE AREA AND DENY ENTRY OF PESONNEL. WEAR POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE FI E FIGHTING CLOTHING. FOR LARGE SPILLS WARN PEOPLE OF DOWNWIND EXPLOSION HAZAR D. Unusual Fire/Explosion Hazard: VAPOR EXPLOSION HAZARD.

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

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. GROUND AND BOND ALL CONTAINERS. SOAK UP WITH SUITABLE, NONREACTIVE ABSORBENT MATERIAL. COLLECT INTO SUITABLE CONTAINERS FOR DISPOSAL. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:PRACTIC E REASONABLE CARE AND CLEANLINESS. AVOID BREATHING VAPOR IF GENERATED. Other Precautions:NO SMOKING OR OPEN FLAMES IN STORAGE AREA.

Respiratory Protection: IF RESPIRATORY IRRITATION IS EXPERIENCED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation: GOOD GENERAL/LOCAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

Protective Gloves: NONE REQUIRED UNDER NORMAL CONDITIONS

Eye Protection:SAFETY GLASSES.

Other P

rotective Equipment: CLEAN, BODY COVERING CLOTHING. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health NONE

HCC:V5 Boiling Pt:=193.9C, 381.F Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:.25 MMHG @ 25C Vapor Density:4.16 Spec Gravity:.965 VOC Grams/Liter:8.47

## Viscosity:NOT GIVEN Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:COMPLETELY MISCIBLE Appearance and Odor:COLORLESS LIQUID, MILD ODOR

Stability Indicator/Materials to Avoid:YES OXIDIZING MATERIALS.

Stability Condition to Avoid:AVOID STATIC DISCHARGE, FLAMMABLE VAPORS CAN BE RELEASED AT ELEVATED TEMPS.

Hazardous Decomposition Products:DOES NOT NORMALLY DECOMPOSE. MAY RELEASE OXIDES OF CARBON.

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Toxicological Information:LD50 FOR SKIN ABSORPTION IN RABBITS IS 20 ML/KG. ORAL LD50 FOR RATS IS >7000 MG/KG.

Ecological:MATERIAL IS PRACTICALLY NON-TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50 >100 MG/L IN SENSITIVE SPECIES). LC50 FOR FATHEAD MINNOW IS 5741 MG/L. LC50 FOR WATER FLEA IS 1192 MG/L. LC50 FOR EMERALD SHINER IS >500 MG/L.

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Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSE MATERIAL, CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Transport Information:NOT REGULATED.

SARA Title III Information: PRODUCT IS S

UBJECT TO REPORTING REQUIMENT OD SEC 313., ALSO CLASSIFED AS FIRE AND A DELAYED HEALTH HAZARD UNDER SEC 3111 AND 312. CAS #111-77-3 IS ON THE TSCA INVENTORY. State Regulatory Information:LISTED ON PENNSYLVANIA HAZ SUBSTANCES LIST. ALSO ON THE CANADIAN HAZ SUBSTANSE LIST.

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