

E M SCIENCE DIV OF E M INDUSTRIES INC --  
1,2-DICHLOROETHANE,DX0794,DX0796,DX0797,DX0800,DX0805 -- 6810-00-838-5932

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

Product ID:1,2-DICHLOROETHANE,DX0794,DX0796,DX0797,DX0800,DX0805

MSDS Date:02/12/1997

FSC:6810

NIIN:00-838-5932

MSDS Number: CGLSS

=== Responsible Party ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:400 DEMOCRAT RDD

Box:70

City:GIBBS

TOWN

State:NJ

ZIP:08027-0070

Country:US

Info Phone Num:609-423-6300

Emergency Phone Num:609-423-6300/800-424-9300(CHEMTREC)

CAGE:63612

=== Contractor Identification ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:480 DEMOCRAT ROAD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Phone:800-222-0342/609-423-6300

CAGE:63612

Company Name:VWR SCIENTIFIC - DIV OF UNIVAR

Address:200 CENTER SQUARE RD

Box:626

City:BRIDGEPORT

State:NJ

ZIP:08014

Country:US

Phone:609-467-2600

CAGE:2E624

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Composition/Information on Ingredients  
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Ingred Name:1,2-DICHLOROETHANE/ETHYLENE DICHLORIDE (SARA 313) (CERCLA)  
CAS:107-06-2  
RTECS #:KI0525000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:50 PPM; Z-2  
ACGIH TLV:10 PPM; 9596  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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Hazards Identification  
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LD50 LC50 Mixture:LC50 (INHL, RAT) 1000 PPM/7 HRS  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Ca  
rcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, CNS, LIVER,  
KIDNEY, BLOOD. ACUTE & CHRONIC- MAY CAUSE SEVERE EYE IRRITATION &  
POSSIBLY BURNS. MAY CAUSE SKIN IRRITATION. MAY BE TOXIC IF  
INHALED/INGESTED/ABSORBED THROUGH SKI N. REPEATED/PROLONGED  
EXPOSURE MAY CAUSE DAMGE TO LIVER, KIDNEYS, LUNGS & BLOOD. MAY  
CAUSE CNS DEPRESSION & COMA.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:SEVERE IRRITATION, HEADACHE,  
DIZZINESS, NAUSEA,  
VOMITING, DROWSINESS, FATIGUE, BLURRED VISION, DIARRHEA, CHEST  
PAIN, COUGHING, COMA  
Medical Cond Aggravated by Exposure:ALCOHOLICS, DIABETES AND  
INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN,  
RESPIRATORY TRACT, CNS, HEART, BLOOD MAY HAVE INCREASED  
SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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First Aid Measures  
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First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:IMMEDIATELY  
FL  
USH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH  
SOAP & WATER. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF  
NECESSARY. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, WASH OUT  
MOUTH WITH WATER. CALL PHYSICIAN AT ONCE.

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Fire Fighting Measures  
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Flash Point Method:TCC  
Flash Point:56.0F,13.3C  
Lower Limits:6.20  
Upper Limits:15.90  
Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, FOAM. USE WATER  
SPRAY TO COOL FIRE-EXPOSE

D CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES

OF IGNITION. VENTILATE AREA. CONTAIN AND PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE. GROUND ALL HANDLING EQUIPMENTS. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENTILATED AREA, AWAY FROM FLAMES, SPARKS & INCOMPATIBLES. CONTAINERS SHOULD BE GROUNDED WHEN CONTENTS ARE BEING TRANSFERRED.

Other Precautions:"EMPTY" CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT WELD, SOLDER OR DRILL SUCH CONTAINERS. THEY MAY EXPLODE AND CAUSE INJURY/DEATH. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST. DO NOT GET IN EYES OR ON SKIN. DO NOT BREATHE VAPOR

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED AIR-SUPPLIED RESPIRATOR. IN EMERGENCY,

WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. WORK UNDER THE HOOD.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NEOPRENE, BUTYL

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:WEAR PROTECTIVE CLOTHING IN CASE OF REPEATED OR PROLONGED CONTACT. PROVIDE EYE WASH & SAFETY SHOWER.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE

PRACTICES AND  
RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING OR  
DRINKING.

Supplemental Safety and Health

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

HCC:F5  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:B.P. Text:182F,84C  
Melt/Freeze Pt:M.P/F.P Text:-32F,-36C  
Vapor Pres:67 @ 68F  
Vapor Density:3.42  
Spec Gravity:1.256  
Evaporation Rate & Reference:6.46 (N-BUTYL ACETATE=1)  
Solubility in Water:0.81%  
Appearance and Odor:COLORLESS LIQUID - CHLOROFORM LI  
KE ODOR  
Percent Volatiles by Volume:>99

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

Stability Indicator/Materials to Avoid:YES  
OXIDIZING AGENTS, ALKALIES, ALUMINUM, NITROGEN TETROXIDE, AMINES  
Stability Condition to Avoid:HEAT, SPARKS, FLAMES, OTHER IGNITION  
SOURCES  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,  
OXIDES OF NITROGEN, OTHER UNKNOWN COMPOUNDS, TRACE AMOUNTS OF  
HYDROGEN CYANIDE

===== Disposal Considerations ====  
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS. RECOMMENDED PROCEDURE IS BY INCINERATION. EPA  
HAZARDOUS WASTE NUMBER: U077, D001, D028

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