

E M SCIENCE, A DIV OF E M INDUSTRIES INC. -- DICHLOROMETHANE -- 6810-00-122-3963

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

Product ID:DICHLOROMETHANE

MSDS Date:03/19/1992

FSC:6810

NIIN:00-122-3963

MSDS Number: BQKMJ

=== Responsible Party ===

Company Name:E M SCIENCE, A DIV OF E M INDUSTRIES INC.

Address:111 WOODCREST RD

City:CHERRY HILL

State:NJ

ZIP:08034-0395

Country:US

Info Phone Num:609-354-9200 FAX: 609-423-4389

Emergency Phone Num:609-354-9200 OR 800-424-9300

C

AGE:EO379

=== 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:E M SCIENCE, A DIV OF E M INDUSTRIES INC.

Address:111 WOODCREST RD

Box:70

City:CHERRY HILL

State:NJ

ZIP:08034-0395

Country:US

Phone:609-354-9200 FAX: 609-423-4389

CAGE:EO379

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

Ingred Name:METHYLENE CHL

ORIDE (SARA III)
CAS:75-09-2
RTECS #:PA8050000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM/C,1000; Z2
ACGIH TLV:50 PPM, A2; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) = 2136 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:TOXIC, POSSIBLE CARCINOGEN. HARMFUL IF

SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION.
PROLONGED AND REPEATED OVEREXPOSURE MAY CAUSE DAMAGE TO LIVER,
DAMAGE TO THE KIDNEYS.

Explanation of Carcinogenicity:IRAC: ANIMAL INDEFINITE

Effects of Overexposure:HEADACHE, DIZZINESS, DROWSINESS, NAUSEA,
TINGLING OR NUMBNESS OF THE EXTREMITIES, SENSES OF FULLNESS IN THE
HEAD, SENSE OF WARMTH, STUPOR OR DULLNESS, LETHARGY AND
DRUNKENNESS. INHALATION OF HIGH CONC ENTRATIONS MAY LEAD TO
UNCONSCIOUSNESS

,REDUCED ABILITY OF THE BLOOD TO TRANSPORT OXYGEN,
CARDIAC ARRHYTHMIAS AND DEATH.

Medical Cond Aggravated by Exposure:METHYLENE CHLORIDE IS METABOLIZED
TO CARBON MONOXIDE. THIS MAY BE SUFFICIENT TO PRODUCE A SUBSTANTIAL
STRESS ON THE CARDIOVASCULAR SYSTEM. PERSONS WITH LIVER OR KIDNEY
DISORDERS ARE AT INCREASED RISK.

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

First Aid:EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING
EYELID. GET MEDICAL

ATTENTION IMMEDIATELY. SKIN: WASH WITH WATER.

REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. INHALATION:
REMOVE TO FRESH AIR. GIVE MOUTH-TO-MOUTH RESUSCITATION IF NOT
BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL
ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION
IMMEDIATELY.

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NONE

Lower Limits:13

Upper Limits:

Extinguishing Media:NONCOMBUSTIBLE. USE WATER SPRAY, CARBON DIOXIDE OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE TOXIC FUMES OF HYDROGEN CHLORIDE GAS AND PHOSGENE GAS. FORMS FLAMMABLE VAPOR-AIR MIXTURES ABOVE AMBIENT TEMPERATURES.

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

Spill Release Procedures:SMALL SPILL: MOP UP OR WIPE UP WITH RAGS OR TOWELS. TAKE OUTDOORS. LARGE SPILLS: EVACUATE AREA. WEAR SCBA. VENTILATE AREA. DIKE TO CONTAIN LIQUID. TRANSFER LIQUID TO CLOSED METAL CONTAINER. RESIDUE WILL EVAPORATE QUICKLY. KEEP OUT OF WATERSUPPLY.

Neutralizing Agent:NONE-RECLAIM IF POSSIBLE.

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

Handling and Storage

Precautions:VAPORS ARE HEAVIER THAN AIR & WILL

COLLECT IN LOW AREAS OF DEGREASERS, STORAGE TANKS, ETC. DO NOT ENTER THESE AREAS WITHOUT SCBA & OBSERVER TO ASSIST.

Other Precautions:THIS MATERIAL OR ITS VAPORS WHEN IN CONTACT WITH FLAMES, HOT GLOWING SURFACES OR ELECTRIC ARCS CAN DECOMPOSE TO FORM HYDROGEN CHLORIDE GAS AND TRACES OF PHOSGENE.

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

Respiratory Protection:FOR A SINGLE SHORT-TERM EXPOSURE, USE NIOSH/MSHA

APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS IF IN CONFINED OR POORLY VENTILATED AREAS.

Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF TLV.

Protective Gloves:NEOPRENE, PVA GLOVES RECOMMENDED.

Eye Protection:CHEMICAL SAFETY GOGGLES & FACE SHIELD.

Other Protective Equipment:APRON, BOOTS AND WORK CLOTHING TO MINIMIZE EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED.

Work Hygienic Prac

tices:WASH THOROUGHLY AFTER USE AND BEFORE EATING,
SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST.
Supplemental Safety and Health
TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES.

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

HCC:T4
Boiling Pt:B.P. Text:104F,40C
Melt/Freeze Pt:M.P/F.P Text:-143F,-97C
Vapor Pres:350
Vapor Density:2.93
Spec Gravity:1.325
Evaporation Rate & Reference:14.5 (N-BUTYL ACETATE=1)
Solubility in Water:SLIGHT
Appearance and Odor
:CLEAR, COLORLESS LIQUID. CHLOROFORM-LIKE ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
ALKALI METALS, ALUMINUM, STRONG OXIDIZING AGENTS, AND ALKALIS
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION
Hazardous Decomposition Products:WHEN INVOLVED IN FIRE, METHYLENE
CHLORIDE EMITS HIGHLY TOXIC AND IRRITATING HYDROGEN CHLORIDE AND
PHOSGENE FUMES.

=====

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

Waste Disposal Methods:THE MATERIAL SHOULD BE IGNITED IN THE PRESENCE
OF SODIUM CARBONATE & SLAKED LIME. THE SUBSTANCE SHOULD BE MIXED
WITH VERMICULITE & THEN WITH THE DRY CAUSTICS, WRAPPED IN PAPER &
BURNED IN A CHEMICAL INCINERATOR EQUIPPED WITH AFTERBURNER &
SCRUBBER.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of

Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.