

E/M CORPORATION,SUB OF GREAT LAKES CHEMICAL CORP -- 1,4-DIOXANE -- 6810-00-174-6592
===== Product Identification =====

Product ID:1,4-DIOXANE

MSDS Date:09/18/1987

FSC:6810

NIIN:00-174-6592

MSDS Number: BMWGJ

=== Responsible Party ===

Company Name:E/M CORPORATION,SUB OF GREAT LAKES CHEMICAL CORP

Address:2801 KENT STREET,U.S.HWY.52

Box:2400

City:WEST LAFAYETTE

State:IN

ZIP:47906

Country:US

Info Phon

e Num:317-497-6100/317-463-2511

Emergency Phone Num:317-497-6100/317-463-2511

CAGE:KO238

=== Contractor Identification ===

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

CAGE:8F024

Company Name:E/M CORPORATION,SUB OF GREAT LAKES CHEMICAL CORP

Address:2801 KENT STREET,U.S.HWY.52

Box:2400

City:WEST LAFAYETTE

State:IN

ZIP:47906

Country:US

Phone:317-463-2511

CAGE:KO238

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

Ingrid Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III) *
CAS:123-91-1
RTECS #:JG8225000
OSHA PEL:S, 25 PPM *
ACGIH TLV:S, 25 PPM; 9192 *
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE-EYE:CAN CAUSE
IRRITATIO
N,REDNESS,BLURRED VISION.SKIN:PROLONGED CONTACT CAN CAUSE
IRRITATION,DERMATITIS.INHALE:CAN CAUSE
IRRITATION,DIZZINESS,NAUSEA,FATIGUE,HEADACHE,ASPHYXIATION/UNCONSCIO
USNESS. ORAL:CAN CAUSE GASTROINTESTINAL IRRITATION,NAUSEA,VOMITING
& DIARRHEA.CHRONIC-LOW CONCENTRATIONS HAS RESULTED FATALITIES
Explanation of Carcinogenicity:PER MSDS.
Effects of Overexposure:CAN CAUSE EYE IRRITATION, REDNESS, BLURRED
VISION. PROLONGED SKIN CONTACT CAN CAUSE IRRITATION, DERMATITIS.
INHALATIO
N CAN CAUSE IRRITATION, DIZZINESS, NAUSEA, FATIGUE,
HEADACHE, ASPHYXIATION/UNCONSCI OUSNESS. ORALLY CAN CAUSE
GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING & DIARRHEA.
Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS MAY BE
MORE SUSCEPTIBLE TO THIS MATERIAL.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.SKIN:WASH WITH SOAP
& WATER.EYE:FLUSH WITH WATER FOR 15 MINUTES,HOLDING EYELIDS
OPE
N.INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF
NEEDED.ORAL:DO NOT IN DUCE VOMITING.KEEP WARM.GET MEDICAL
ATTENTION.

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

Flash Point Method:TCC
Flash Point:54.0F,12.2C
Autoignition Temp:Autoignition Temp Text:350F
Lower Limits:2.0
Upper Limits:22.0
Extinguishing Media:CO2, FOAM, DRY CHEMICAL OR HALON. WATER SPRAY MAY
BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY.
Fire Fighting Procedures:WEAR

FULL PROTECTIVE CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:DIOXANE HAS AN UNUSUALLY LOW AUTOIGNITION
TEMPERATURE. IRRITATING AND/OR TOXIC FUMES INCLUDING CO AND CO2 MAY
BE RELEASED.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT.ELIMINATE SOURCES OF
IGNITION.VENTILATE THE AREA.STOP LEAK IF POSSI
BLE.CONTAIN THE
SPILL.PICK UP LARGE SPILL WITH NON-SPARKING TOOLS;SMALL
SPILLS/RESIDUE WITH ABSORBENT MATER IAL.PLACE IN NON-LEAK
CONTAINERS.CONTAINRUN-OFF.

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

Handling and Storage Precautions:STORAGE-STORE IN COOL,DRY,WELL
VENTILATED AREA AWAY FROM ACIDS,ALKALIES & IGNITION SOURCES.

Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT.
WASH WITH SOAP AND WATER BEFORE EATING OR DRINKING. LAUNDER

CONTAMINATED CLOTHING BEFORE REUSE. KEEP OUT OF SURFACE WATERS AND
SEWERS.

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

Respiratory Protection:IF ENGINEERING CONTROLS ARE INADEQUATE TO
CONTROL VAPOR CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A
NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR SHOULD BE WORN.

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

Protective Gloves:CHEMICAL RESISTANT

Eye

Protection:SAFETY GLASSES/GOGGLES/FACE SHIELD

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND
IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR
FOOTWEAR.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:B.P. Text:214F,101C

Vapor Pres:27

Vapor Density:3.0

Spec Gravity:1.04

Evaporation Rate & amp;

Reference:2.7(BU-ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID,ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HEAT, SPARKS, FLAME AND OTHER IGNITION
SOURCES

Hazardous Decomposition Products:IRRITATING AND/OR TOXIC FUMES
INCLUDING CO AND CO2 MAY BE RELEASED.

===== Disposal Consi
derations =====

Waste Disposal Methods:DISPOSE OF WASTE IN A CHEMICAL LANDFILL AS
APPROVED BY CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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.