

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 P

Phone 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

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

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 ===== Hazards Identification =====
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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
 IRRITA
 TION,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.
 INHALA
 TION CAN CAUSE IRRITATION, DIZZINESS, NAUSEA, FATIGUE,
 HEADACHE, ASPHYXIATION/UNCONSCIOUSNESS. ORALLY CAN CAUSE
 GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING & DIARRHEA.
 Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS MAY BE
 MORE SUSCEPTIBLE TO THIS MATERIAL.

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

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 ===== Fire Fighting Measures =====
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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:WE

AR 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 POSSIBLE.CONTAIN THE
SPILL.PICK UP LARGE SPILL WITH NON-SPARKING TOOLS;SMALL
SPILLS/RESIDUE WITH ABSORBENT MATERIAL.PLACE IN NON-LEAK
CONTAINERS.CONTAIN RUN-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. LAUN
DER
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 &am

p; 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 Considerations =====

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

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