MATERIAL SAFETY DATA SHEET

EM SCIENCE
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JOYCE KILBY/ RISK MGMT OF
UNIV OF WISCONSIN-WHITEWATER
800 W. MAIN ST-LIBRARY RM 2008
WHITEWATER, WI
53190

Preparation Date ..........: MAY 11, '90
Date Sent to Customer ........: MAR 12, '91
Information Phone Number: (609) 354-9200
Chemtrec Emergency Number:
1-800-424-9300

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NFP A HAZARD RATINGS

Health ........: 1  Flammability ....: 0
Reactivity ....: 0  Special Hazards: 0

SECTION I - GENERAL INFORMATION

Catalog Number(s): MX0185

Chemical Name......: Manganese Chloride
Trade Name.........: Manganese Chloride, Tetrahydrate
C.A.S. Number.....: 13446-34-9
Chemical Family...: Inorganic Salt
Formulation.......: MnCl₂ . 4H₂O

Molecular Weight.: 197.91
DOT Shipping Name: (non-regulated)
DOT Number........: (none)

SECTION II - HAZARDOUS INGREDIENTS

None other than specified product.

SECTION III - PHYSICAL DATA

Boiling Point (°C): 760 mm Hg): 1190°C
Melting Point (°C): 58°C
Specific Gravity (H₂O = 1): 2.01
Vapor Pressure (mm Hg): N/A
Percent Volatile by Vol (%): 20°C
Vapor Density (Air=1): N/A
Evaporation Rate (BuOH=1): N/A
Solubility in Water (%): Soluble
Appearance and Odor: Pink crystals

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (°F): N/A
Flammable Limits LEL &UEL: Noncombustible
Flammable Limits LEL &UEL: N/A
Extinguishing Media: Use any suitable for adjacent material.
Fire Fighting Proc.: Wear self-contained breathing apparatus.
Fire & Expl. Hazards: Thermal decomposition produces toxic fumes.

SECTION V - HEALTH HAZARD DATA (ACUTE AND CHRONIC)

ACGIH TLV/OSHA PEL (TWA): 5 mg/cu.m. (as Mn)
Toxicity Data:.............: Oril-rat LD50: 1484 mg/kg
Symptoms of Exposure:....: Prolonged breathing of dust or fumes may cause disturbances of central nervous system: muscular weakness, twitching, slurred speech. May be harmful if swallowed. May cause skin irritation.

Medical Cond. Aggravated by Exp: Data not available.
Routes of Entry:............: Inhalation, ingestion
Carcinogenicity:...........: The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

Emergency First Aid:...........: GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.
Skin: Wash thoroughly with soap and water.
Eyes: Immediately flush thoroughly with water for at least 15 minutes.
Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

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Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

Stability: ................... YES

Conditions to Avoid: ........ None indicated

Materials to Avoid: .......... { } Water
{ } Bases
{ } Corrosives
{ } Oxidizers
{ } Other: None indicated

Hazardous Polymerization: Does not occur

Hazardous Decomposition: C-

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Take up and containerize for proper disposal.

Waste Disposal: To be performed in compliance with all current local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection: Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves (Natural rubber, Neoprene, PVC or equivalent) should be worn to prevent skin contact. Safety glasses with side shields should be worn at all times.

SECTION IX - SPECIAL PRECAUTIONS

Handling & Storage: Keep container closed.
Do not breathe dust or fumes.
Do not get in eyes, on skin, or on clothing.

Work/Hygienic Practices: Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

SECTION X - OTHER INFORMATION

Comments: .................. Tests on laboratory animals indicate material may cause adverse reproductive effects.

Revision History: .......... 4/15/86, 10/27/87