

1071

MATERIAL SAFETY DATA SHEET

For Assistance, Contact:
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I. PRODUCT IDENTIFICATION

For dissolved oxygen

CATALOG NUMBER: 1071 PRODUCT NAME: Manganous Sulfate
CAS. NO: 10034-96-5 CHEMICAL NAME: Manganese Sulfate, Monohydrate
FORMULA: MnSO4·H2O DATE: 10/16/87
CHEMICAL FAMILY: Inorganic Salts CHANGE NO.: 7023

II. INGREDIENTS

| INGREDIENTS | I | CAS NUMBER | TLV | PEL | NATURE of HAZARD |
|-------------------|-----|------------|----------------|-----------------|-------------------------------|
| Manganous Sulfate | 100 | 10034-96-5 | 15 mg/M3 as Mn | Not established | Systemic poison by inhalation |

III. PHYSICAL DATA

STATE: solid APPEARANCE: Pink powder ODOR: Not determined
SOLUBILITY IN: WATER: Soluble ACID: Not determined OTHER: Not determined
BOILING PT.: NA MELTING PT.: >400C SPECIFIC GRAVITY: ND pH: of 5% soln. = 3.7
VAPOR PRESSURE: Not applicable VAPOR DENSITY (air=1): NA EVAPORATION RATE: NA
METAL CORROSIIVITY - ALUMINUM: 0.002 in/yr STEEL: ND STABILITY: Stable
STORAGE PRECAUTIONS: Store in a cool, dry place.

IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT.: Not applicable METHOD: NA FLAMMABILITY LIMITS - LOWER: NA UPPER: NA
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None
SHOCK SENSITIVITY: None AUTOIGNITION PT.: ND
EXTINGUISHING MEDIA: water, carbon dioxide, or dry chemical
FIRE/EXPLOSION HAZARDS: May emit toxic fumes
HAZARDOUS DECOMP. PRODUCTS: May emit toxic fumes of sulfur oxides in fire
OXIDIZER: No NFPA Codes Health: 2 Flammability: 0 Reactivity: 1
CONDITIONS TO AVOID: Heat, moisture; contact with aluminum or magnesium

V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE irritating to eyes, skin and respiratory tract.
ACUTE TOXICITY: Moderately toxic
ROUTES OF EXPOSURE: inhalation
TARGET ORGANS: central nervous system
CHRONIC TOXICITY: Cumulative poison
ROUTES OF EXPOSURE: inhalation
TARGET ORGANS: central nervous system
CARCINOGEN, MUTAGEN, TERATOGEN DATA: Experimental neoplasia formation (benign or malignant tumors)
ROUTES OF EXPOSURE: Not determined
TARGET ORGANS: Not determined

