1071 MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

CATALOG NUMBER: 1071 PRODUCT NAME: Manganese Sulfate
CAS. NO.: 10034-96-5 CHEMICAL NAME: Manganese Sulfate, Monohydrate
FORMULA: MnSO4·H2O CHEMICAL FAMILY: Inorganic Salts
DATE: 10/14/87
CHANGE NO.: T223

II. INGREDIENTS

INGREDIENTS | I | CAS NUMBER | TLV | PEL | NATURE OF HAZARD
---|---|---|---|---|---
Manganese 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 | BASE: Not determined

BOILING PT.: NA | MELTING PT.: >400°C | SPECIFIC GRAVITY: ND | pH of 5% soln. = 3.7

VAPOR PRESSURE: Not applicable | VAPOR DENSITY (air=1): NA | EVAPORATION RATE: NA

METAL COMPARABILITY | ALUMINUM: 6.002 | 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

SUZCIBILITY TO SPONTANEOUS HEATING: None

SHOCK SENSITIVITY: None | AUTODISINCTION PT.: NA

EXTINGUISHING MEDIA: water, carbon dioxide, or dry chemical

FIRE/EXPLOSION HAZARDS: May emit toxic fumes

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of sulfur oxides in fire

ODORIZER: 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

CARCINOGENICITY, MUTAGENICITY, TERATOGENICITY: Experimental neoplasia formation (benign or malignant tumors)

ROUTES OF EXPOSURE: Not determined

TARGET ORGANS: Not determined

[Text continues on the next page]
OVEREXPOSURE: Sleepiness, weakness in legs, mask-like facial expression, muscle-twitching, slurred speech. May cause or contribute to upper respiratory infections or pneumonia. Manganese has been reported to cause blood changes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Alcoholism, liver dysfunction, psychiatric disease, disease of the nervous system or respiratory tract.

VI. PRECAUTIONARY MEASURES

Wash thoroughly after handling.
Avoid contact with eyes, skin and clothing.
Do not breathe chemicals.

PROTECTIVE EQUIPMENT: adequate ventilation, safety glasses, disposable gloves.

VII. FIRST AID

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Call physician. Flush skin with plenty of water.

INGESTION: Give large quantities of water or milk. Call physician immediately.

INHALATION: Remove to fresh air. Give artificial respiration if necessary. Call physician.

VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Sweep into a bucket and dissolve in water. Pour down the drain with excess water.

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

IX. TRANSPORTATION DATA

PROPER SHIPPING NAME: Not Currently Regulated

HAZARD CLASS: Not applicable 1 ID: NA

X. REFERENCES

7) In-house information
8) Technical judgment

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