Material Safety Data Sheet



MANGANOUS NITRATE SOLUTION

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Manganous Nitrate, 50-52% Solution

Product Code(s): 87-3890 Size: 100 mL, 500 mL

Chemical Name: Manganous Nitrate

CAS Number: 10377-66-9

Formula: Mn(NO3)2 and HNO3 in H2O

Synonyms: Manganese (II) nitrate, solution; Manganese dinitrate, solution.

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: N/A Potential Health Effects:

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Nitric Acid (CAS#7697-37-2) <.5%; Manganous Nitrate (CAS#10377-66-9) 50-72%

TLV units: Nitric Acid - ACGIH/TLV 2 ppm Manganous Nitrate: No information recorded PEL units: Nitric Acid - OSHA/PEL 2 ppm Manganous Nitrate: No information recorded

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel.

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Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Risk of explosion if heated under confinement.

Contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion. Can react violently with

reducing agents.

Product is a strong oxidizer.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep away from combustible material.

This material should be kept in an area suitable for the storage of flammable liquids.

Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes Mechanical(General): Yes

Special: No Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight:178.95Melting Point:37 °CBoiling Point:N/AVapor Pressure:17.5

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): 1.70 Percent Volatile by Volume: >50 Evaporation Rate (BuAc=1): N/A

Solubility in Water: Soluble Appearance and Odor: Light pink liquid.

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Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Keep away from combustible material. Organics, Reducing agents,

Hazardous Decomposition Products: NOx, **Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Toxicity Data: inh-rat LC50 for Nitric Acid 2500 ppm

Effects of Overexposure:
Acute: See Section 2
Chronic: N/A

Conditions Aggravated by Overexposure: N/A

Target Organs: Kidneys, Blood, Central Nervous System, Respiratory system,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D001 (Ignitable waste)

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN2724, Description: Manganese nitrate, solution, 5.1, III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

Yes Manganese

CERCLA Section 103 RQ(lb.): 1,000

RCRA Section 261.33: No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

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ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

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