# **SDS #:** 491.00 **Revision Date:** March 25, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Manganese(II) Nitrate Solution

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

# SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing liquids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

Hazard class: Acute toxicity, inhalation (Category 3). Toxic if inhaled (H331). Avoid breathing vapors.



# SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Manganese(II) nitrate Nitric acid Water	10377-66-9 7697-37-2 7732-18-5	$\begin{array}{c} Mn(NO_3)_2 \\ HNO_3 \\ H_2O \end{array}$	178.94 63.01 18.00	45-50% 5% 45-50%
Synonyms: 3.9M - 4.3M molar solution, Manganous nitrate solution				

Signal Word

DANGER

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

**If on skin:** Rinse cautiously with water for several minutes (P351). **If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

# SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code None established

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

Manganese(II) Nitrate Solution

# SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites and azides. Store in a dedicated acid cabinet or in a Flinn Saf-Cube<sup>TM</sup>. Never store with acetic acid. Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221). Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, eye protection, and face protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Wear respiratory protection (P284). Exposure guidelines: (as manganese nitrate) Ceiling 5 mg/m<sup>3</sup> (OSHA); 0.1 mg/m<sup>3</sup> (inhalable fraction) (ACGIH)

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, pink liquid. Faint acrid odor.

Boiling point: >100 °C pH <1 Specific gravity: 1.54

# SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with bases, reactive metals, organic materials, acetic acid, and other readily oxidized substances. Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive, respiratory disorders Chronic effects: Lung damage, CNS Target organs: Respiratory system, CNS, blood, kidneys ORL-RAT LD<sub>50</sub>: N.A. IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #27f is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Corrosive liquid, acidic, inorganic, N.O.S. (nitric acid). Hazard class: 8, Corrosive. UN number: 3264.

#### N/A = Not applicable

### SECTION 15 — REGULATORY INFORMATION

Nitric acid: TSCA-listed, EINECS-listed (231-714-2), RCRA code D001, D002, D003.

#### SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 25, 2014

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