



## Manganese(II) Chloride Safety Data Sheet (SDS)

SDS #: 490

Revision Date: March 25, 2014

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Manganese(II) Chloride

Signal Word  
**WARNING**

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

Chemtrec Emergency Phone Number: (800) 424-9981

Pictograms

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### SECTION 2 — HAZARDS IDENTIFICATION

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Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



**SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS**

Component Name	CAS Number	Formula	Formula Weight	Concentration
Manganese(II) chloride tetrahydrate  Synonyms: Manganese dichloride; Manganous chloride	13446-34-9	MnCl <sub>2</sub> •4H <sub>2</sub> O	197.91	

**SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water.

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

**SECTION 5 — FIRE FIGHTING MEASURES**

Noncombustible solid.

When heated to decomposition, may emit toxic fumes.

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

**NFPA Code**

None established

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

**SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates.

Very deliquescent. Store in a cool, dry place within a Flinn Chem-Saf™ bag.

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264).

Exposure guidelines: Ceiling 5 mg/m<sup>3</sup> (OSHA); 0.1 mg/m<sup>3</sup> (inhalable fraction) (ACGIH)

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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Deliquescent, light pink crystals. Odorless.

Boiling point: 1225 °C

Soluble: Water and alcohol. Insoluble in ether.

Dehydration point: 58 °C

Melting point: 87.5 °C

Specific gravity: 2.01

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## SECTION 10 — STABILITY AND REACTIVITY

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Avoid contact with strong acids, sodium, potassium, and zinc.

Shelf life: Fair to poor, very deliquescent. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Acute effects: Irritating to eyes, skin, and mucous membranes.

ORL-RAT LD<sub>50</sub>: 1484 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

Chronic effects: Possible mutagen. Nerve damage

SKN-RBT LD<sub>50</sub>: N.A.

Target organs: Nerves, lungs.

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## SECTION 12 — ECOLOGICAL INFORMATION

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Data not yet available.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27f is one option.

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## SECTION 14 — TRANSPORT INFORMATION

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

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## SECTION 15 — REGULATORY INFORMATION

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TSCA-listed, EINECS-listed (231-869-6).

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## SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

**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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