

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manganese

Signal Word  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-9979

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Although manganese in the form of chips is nonhazardous, residual powder or dust may be found in the container which possesses the associated hazards below.

Hazard class: Flammable solids (Category 1). Flammable solid (H228). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust (P261).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Manganese	7439-96-5	Mn	54.94	

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**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.

**If on skin:** Rinse with water for several minutes.

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Dust or powder is flammable.

In case of fire: Use Class D, Met-L-X, or dry sand as a fire extinguisher. Avoid water contact, violent reaction with water.

NFPA Code

None established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not use water until all material is cleaned up. 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.

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## SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Moisture sensitive material. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Wear protective gloves, protective clothing, eye protection, and face protection (P280). Wash hands thoroughly after handling. Use only in a hood or well-ventilated area (P271).

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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Brittle, silvery metal. Odorless.

Boiling point: 2097 °C

Soluble: Decomposes water. Readily dissolves in dilute mineral acids.

Melting point: 1245 °C

Specific gravity: 7.44

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## SECTION 10 — STABILITY AND REACTIVITY

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Avoid contact with acids, bases, moisture, halogens, and phosphorus.

Shelf life: Indefinite, if stored properly. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Acute effects: Harmful dust.

ORL-RAT LD<sub>50</sub>: 9 g/kg

Chronic effects: Reproductive, neurological hazard.

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

Target organs: Nerves, lungs.

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

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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 #26a 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 (231-105-1).

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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.**

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