# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 489.00

Revision Date: March 25, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Manganese Dioxide**

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

Hazard class: Acute toxicity, oral (Category 4). Harmful if inhaled (H332). Avoid breathing dust (P261).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Manganese dioxide	1313-13-9	$\mathrm{MnO}_2$	86.94	

## **SECTION 4 — FIRST AID MEASURES**

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

If inhaled: Remove victim to fresh air and keep at rest 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: Wash with plenty of water.

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

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solid.

NFPA CODE

Strong oxidizer, fire hazard when in contact with combustible materials.

When heated to decomposition, may emit toxic fumes.

None established

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

#### **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.

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#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in a cool, dry place.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Exposure guidelines: Ceiling 5 mg/m<sup>3</sup> (OSHA); 0.1 mg/m<sup>3</sup> (inhalable fraction) (ACGIH)

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Black or silver crystals or powder. Odorless. Melting point: 535 °C (decomposes)

Soluble: Hydrochloric acid. Insoluble in water. Specific gravity: 5.026

## **SECTION 10 — STABILITY AND REACTIVITY**

May ignite organic materials, and is a strong oxidant that reacts violently with combustible and reducing agents. Avoid contact with other oxidizing agents.

Shelf life: Indefinite, if stored properly.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritating dust. ORL-RAT LD<sub>50</sub>: 3478 mg/kg Chronic effects: N.A. IHL-RAT LC<sub>50</sub>: N.A.

Target organs: Nerves, lungs. 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 #26a is one option.

### **SECTION 14 — TRANSPORT INFORMATION**

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

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (215-202-6), RCRA code D001.

#### **SECTION 16 — OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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