



SDS #: 416.5

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## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Iron Powder or Filings

**Signal Word**  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-9882

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable solids (Category 2). Flammable solid (H228). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Serious eye irritation (Category 2A). Causes serious eye irritation (H319).

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



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Iron powder or filings	7439-89-6	Fe	55.85	

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**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 eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**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

Finely divided iron can be flammable.

**NFPA Code**

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

None established

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## **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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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. Store in a Saf-Stor™ can. 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, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

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

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Dark powder or metal filings. Odorless.

Melting point: 1536 °C

Soluble: Sulfuric, hydrochloric, and nitric acids. Insoluble in water.

Specific gravity: 7.87

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

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Avoid contact with acids, moisture, strong oxidizing agents, halogens, phosphorus, and oxygen.

Shelf life: Good, if kept dry. It does readily form iron oxides (rust).

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## **SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Harmful dust

ORL-RAT LD<sub>50</sub>: 30 g/kg

Chronic effects: N.A.

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

Target organs: N.A.

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: Metal powder, flammable. Hazard class: 4.1. UN number: 3089. Packing group III

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## **SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-096-4), RCRA code D001.

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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