FLINN SCIENTIFIC SDS #: 347 Revision Date: March 25, 2014 Save SDS to Your Library

## Iron(II) Chloride Tetrahydrate Safety Data Sheet (SDS)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Iron(II) Chloride Tetrahydrate

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261 Chemtrec Emergency Phone Number: (800) 424-9786 Signal Word DANGER

SECTION 2 – HAZARDS IDENTIFICATION Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Pictograms



SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Iron(II) chloride tetrahydrate	13478-10-9	FeCl <sub>2</sub> •4H <sub>2</sub> O	198.81	

Synonyms: Ferrous chloride

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: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363). If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 – FIRE FIGHTING MEASURES

Nonflammable 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, sulfates, thiosulfates and phosphates. Deliquescent and easily oxidized. Store in a cool, dry place within a Flinn Chem-Saf™ bag. Do not breathe dust or fumes (P260). SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Exposure guidelines: TLV 1 mg/m<sup>3</sup> (ACGIH)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Green and light green crystals. Chlorine-like odor. Soluble: Water and alcohol

Shelf life: Poor, deliquescent. See Section 7 for further information. SECTION 11 — TOXICOLOGICAL INFORMATION Acute effects: Toxic, irritant. Chronic effects: Possible mutagen. Target organs: N.A. 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. SECTION 15 — REGULATORY INFORMATION EINECS-listed (231-843-4). SECTION 16 — OTHER INFORMATION

Specific gravity: 1.93 SECTION 10 — STABILITY AND REACTIVITY Avoid contact with strong oxidizers, potassium, and sodium.

ORL-RAT LD<sub>50</sub>: 450 mg/kg IHL-RAT LC<sub>50</sub>: N.A. SKN-RBT LD<sub>50</sub>: N.A.

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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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