



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Iron (III) sulfate hydrate**

PRODUCT NUMBER: 2090

CAS NUMBER: 15244-10-7

SYNONYMS: Ferric sulfate hydrate

MANUFACTURER:

Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P305+P351+P335	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS CLASSIFICATION:

Health: 1 Fire: 0 Physical Hazard: 1

NFPA RATING:

Health: 1 Flammability: 0 Reactivity Hazard: 1

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation. May be harmful if absorbed through the skin.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

INHALATION: May cause respiratory tract irritation. May be harmful if inhaled.

INGESTION: Harmful if swallowed. May cause irritation of the digestive tract.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Fe}_2(\text{SO}_4)_3 \cdot \text{XH}_2\text{O}$

Molecular Weight: 399.87 (anhy.)

CHEMICAL NAME	CAS#	%
Iron (III) sulfate hydrate	15244-10-7	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Flush the eyes with plenty of water for at least 15 minutes. Be sure to wash under eyelids. Get medical attention.

SKIN EXPOSURE: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing. Get immediate medical attention.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Wash mouth with water. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Sulfur oxides and iron oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains or allow to be released into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear approved personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, and well-ventilated area. Store away from oxidizing agents, water, and moisture. Hygroscopic. Light sensitive.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Approved NIOSH dust respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers, and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Grey to yellow crystalline solid
MOLECULAR WEIGHT: 399.87 (anhy.)
BOILING POINT: Not available
MELTING POINT: Not available
SPECIFIC GRAVITY: 2.0
SOLUBILITY IN WATER: Slightly soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Light, exposure to moisture, water, and air
INCOMPATIBILITY: Strong oxidizing agents and active metals
DECOMPOSITION PRODUCTS: Sulfur oxides and iron oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen.
MUTAGENIC EFFECTS: No data available
TETRAOGENIC EFFECTS: No data available
RTECS: NO8505000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good

SECTION 15 REGULATORY INFORMATION

TSCA: Not listed in the TSCA
SARA 302: Not listed
SARA (TITLE 313): Not listed

SECTION 16 OTHER INFORMATION

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