



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

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

PRODUCT NUMBER: 2089

CAS NUMBER: 142906-29-4

SYNONYMS: Ferric sulfate pentahydrate

### MANUFACTURER:

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## 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.

**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:  $\text{Fe}_2(\text{SO}_4)_3 \cdot 5\text{H}_2\text{O}$

Molecular Weight: 489.96

CHEMICAL NAME	CAS#	%
Iron (III) sulfate pentahydrate	142906-29-4	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:** 489.96

**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

**TETRATOGENIC 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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