



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Iron, Powder**

PRODUCT NUMBER: 2035

CAS NUMBER: 7439-89-6

SYNONYMS: Carbonyl Iron, Steel

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

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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

H228	Flammable solid.
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### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.

### HMIS CLASSIFICATION:

Health:1 Fire: 2 Reactivity Hazard: 1

### NFPA RATING:

Health: 1 Flammability: 2 Reactivity Hazard: 1

**EYE CONTACT:** Causes mild to moderate irritation of the eyes.

**SKIN CONTACT:** Contact with metal, or dust, if present, may cause slight irritation of the skin.

**INHALATION:** Inhalation of fine dust may be irritating to the nasal cavity, mucous membranes, and respiratory tract.

**INGESTION:** No specific information is available on the physiological effects of ingestion.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Fe

Molecular Weight: 55.85

CHEMICAL NAME	CAS#	%
Iron Powder	7439-89-6	100

### SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** In case of eye contact, flush the eye with plenty of water for at least 15 minutes and seek medical attention.

**SKIN EXPOSURE:** Immediately wash with plenty of water. Get medical attention.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

### SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Special powder for metal fires. Do not use water.

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

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Iron oxides, acids, halogen, and phosphorous

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Flammable solid. Dust may form explosive mixtures with air. Evolves flammable hydrogen with steam.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Cover spill with dry soda ash, limestone, or sand. Flammable hydrogen evolution may occur if wet. Sweep up and place in suitable container for proper disposal.

### SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store in a cool location. Store away from oxidizing agents.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substance with occupational exposure limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved 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 powder  
**ODOR:** None  
**MOLECULAR WEIGHT:** 55.80  
**BOILING POINT:** 2740° C  
**MELTING POINT:** 1538° C  
**SPECIFIC GRAVITY:** 7.87 gm/ml  
**VAPOR DENSITY:** No data available  
**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** None  
**INCOMPATIBILITY:** Oxidizing agents  
**DECOMPOSITION PRODUCTS:** Iron oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 30,000 mg/kg.  
**CARCINOGENIC EFFECTS:** No components of this product are identified as being a human carcinogen.  
**MUTAGENIC EFFECTS:** Not available  
**TETRATOGENIC EFFECTS:** Not available  
**CHRONIC TOXICITY:** Not available  
**RTECS:** NO4565500

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

## SECTION 12 ECOLOGICAL DATA

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

<b>DOT:</b> UN3089	<b>IATA:</b> UN3089
Metal powders, flammable, n.o.s.	Metal powder, flammable, n.o.s.
(Iron)	(Iron)
Class 4.1	Class 4.1
PG III	PG III

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**SARA 302/304:** Not Listed  
**SARA 311/312:** Fire Hazard  
**SARA (TITLE 313):** Not listed  
**CALIFORNIA PROP. 65:** Not Listed

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Iron, Powder

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Iron, Powder

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE PREPARED:** 02/15

**SDS DEPT.**