



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Iron (II) Iodide**  
PRODUCT NUMBER: 2070  
CAS NUMBER: 7783-86-0  
SYNONYMS: Ferrous iodide, iron diiodide  
**MANUFACTURER:**

Prochem, Inc.  
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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

**Danger**

### Hazard Statements

H302+H312+H332	Harmful if swallowed, in contact with skin, or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.

### Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Avoid breathing dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

### HMIS CLASSIFICATION:

Health: 2      Chronic: \*      Fire: 0      Reactivity Hazard: 0

### NFPA RATING:

Health: 2      Flammability: 0      Reactivity Hazard: 0

**EYE CONTACT:** Contact with eyes causes irritation. May cause redness and pain.

**SKIN CONTACT:** Causes irritation to skin. Symptoms include redness, itching, pain, pimples, boils, hives, and blisters.

**INHALATION:** Causes irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

**INGESTION:** Large oral doses may cause irritation to the gastrointestinal tract.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: FeI<sub>2</sub>

Molecular Weight: 309.66

CHEMICAL NAME	CAS#	%
Iron (II) Iodide	7783-86-0	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with soap and plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**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:** Product does not present an explosion hazards.

**EXTINGUISHING MEDIUM:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen iodide, iodine, and iron oxide

## 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:** Mix spills with powdered sodium bicarbonate, lime, or calcium carbonate. 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. Handle under inert gas.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Hygroscopic. Protect from moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Iron (II) Iodide	1 mg/m <sup>3</sup>	TLV	ACGIH
	1 mg/m <sup>3</sup>	TWA	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

TWA: Time Weighted Average over 8 hours of work.

**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 solid

**ODOR:** None

**MOLECULAR WEIGHT:** 309.66

**BOILING POINT:** 827° C

**MELTING POINT:** 587° C

**SPECIFIC GRAVITY:** 5.32 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Avoid moisture and heat

**INCOMPATIBILITY:** Alkali metals, strong acids, oxidizing agents, and strong bases.

**DECOMPOSITION PRODUCTS:** Hydrogen iodide, iodine, and iron oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is considered to be a human carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**RTECS:** No data

Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma.

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:** Listed

**SARA 302/304:** Not Listed

**SARA 311/312:** Acute Health Hazard, Chronic Health Hazard

**SARA (TITLE 313):** Not listed

**CALIFORNIA PROP. 65:** Not Listed

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

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Iron (II) Iodide

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Iron (II) Iodide

## **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:** 04/15

**SDS DEPT.**