



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Manganese, Powder**

PRODUCT NUMBER: 2488

CAS NUMBER: 7439-96-5

### 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P370+P378	In case of fire: Use for extinction: Carbon dioxide, powder, or water spray.

### HMIS CLASSIFICATION:

Health: 1      Fire: 2      Reactivity Hazard: 1

### NFPA RATING:

Health: 1      Flammability: 2      Reactivity Hazard: 1

**EYE CONTACT:** May cause slight to mild irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** May be irritating to the nose, mucous membranes, and respiratory tract.

**INGESTION:** Animal studies indicate that the product is toxic by ingestion.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Mn

Molecular Weight: 54.94

CHEMICAL NAME	CAS#	%
Manganese	7439-96-5	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 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:** 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:** Manganese oxide

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up and place in tightly sealed 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. Avoid formation of dust.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Moisture sensitive.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Manganese	5 mg/m <sup>3</sup>	PEL	OSHA
	3 mg/m <sup>3</sup>	REL	OSHA

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

**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:** 54.94  
**BOILING POINT:** 2095° C  
**MELTING POINT:** 1246° C  
**SPECIFIC GRAVITY:** 7.3 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:** Manganese oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 9,000 mg/kg  
**CARCINOGENIC EFFECTS:** No components of this product are considered to be a human carcinogen.  
**MUTAGENIC EFFECTS:** Not available  
**TETRATOGENIC EFFECTS:** Not available  
**CHRONIC TOXICITY:** Not available  
**RTECS:** No data

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

<b>DOT:</b> UN3089 Metal powders, flammable, n.o.s. (Manganese) CLASS 4.1 PG III	<b>IATA:</b> UN3089 Metal powders, flammable, n.o.s. (Manganese) CLASS 4.1 PG III
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Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed  
**SARA 302/304:** Not Listed  
**SARA 311/312:** Reactivity Hazard, Chronic Health Hazard  
**SARA (TITLE 313):** Manganese

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

**CALIFORNIA PROP. 65:** Not Listed

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Manganese

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Manganese

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Manganese

## **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:** 03/15

**SDS DEPT.**