

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Iron powder
CAS #: 7439-89-6
FORMULA: Fe
SYNONYM: Carbonyl Iron. Steel.

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7439-89-6	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Dust can cause slight to mild irritation of eyes, skin, and nasal cavity.
PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Dust inhalation.
EYE CONTACT: Dust may cause mild to moderate irritation of the eyes.
SKIN CONTACT: Direct 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.
CHRONIC HEALTH EFFECTS: Equivocal tumorigenic agent by RTECS criteria in high dose animal studies- Lungs, Thorax.
ACUTE HEALTH EFFECTS: Dust may be irritating to skin, eyes and respiratory tract.

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 water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
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. 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 applicable

AUTO IGNITION TEMPERATURE: no data

EXPLOSION LIMITS: no data

EXTINGUISHING MEDIUM: Class D metal fire agent, dry salt or sand.

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire, burning metal may produce mildly irritating fumes of iron oxide.

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

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: In the case of a spill, the material should be covered with dry soda ash, limestone, or sand. Place in open container. Flammable hydrogen evolution may occur if wet.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container in a cool dry place.

SECTION 8 Exposure Controls and Personal Protection

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

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: -200 mesh

MOLECULAR WEIGHT: 55.8

MELTING POINT (DEG. C.): no data

BOILING POINT: 3000^o

VAPOR PRESSURE: 1mm (1787^oC)

SPECIFIC GRAVITY: 7.86

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: Mixtures of fine dust with air. Contact with an ignition source.
INCOMPATIBILITY: mineral acids, halogens, sulfur, phosphorus, oxidizing agents and hydrogen peroxide.
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (Human-child); TDLo:77 mg/kg. Oral (rat); LD50:30 gm/kg. Intraperitoneal (rabbit); LDLo:20 mg/kg. Oral (guinea pig); LD50:20 gm/kg. Oral (rat); TDLo:63 gm/kg/6W-C. Inhalation (rat); 250 mg/m3/6H/4W-1. In-
tratracheal (rat); TDLo:450 mg/kg/15W-1.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: Equivocal tumorigen-rat

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Metal powder, Flammable, n.o.s., Class 4.1, UN3089, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

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.

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