

Safety Data Sheet

Iron Metal



SECTION 1: IDENTIFICATION

Product Name: Iron Metal

CAS No.: 7439-89-6

Chemical Formula: Fe

Other Names: Iron, Fe, Iron Pellets, Iron Tablets

Intended Use / Restrictions on Use:

For professional/industrial use only.

Contact Information:

Greenwich Metals, Inc.

165 West Putnam Ave.

Greenwich, CT 06830

Phone: 203-622-4848

Emergency Contact:

Chemtrec – call 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Not a hazardous substance according to the GHS classification system.

Label Elements:

Hazard Pictograms: None

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

Other Hazards: None

Unknown Acute Toxicity Statement:

Not Applicable

SECTION 3: COMPOSITION

Name: Iron Metal

Synonyms: Iron, Fe, Iron Pellets, Iron Tablets

Chemical Name	CAS Number	% by Weight
Iron (Fe)	7439-89-6	>99.0

Mixture:

Not applicable

SECTION 4: FIRST AID MEASURES

Required Treatment:

After inhalation, move to fresh air and rest in a position comfortable for breathing.

After skin contact, wash skin thoroughly.

After eye contact, remove contact lenses if applicable and flush eyes with water for at least 15 minutes.

After ingestion, do not induce vomiting. Rinse mouth with water. Call poison control center or doctor.

Important Symptoms & Effects, Acute & Delayed:

No information available. If feeling un-well after exposure, consult with a doctor.

Indication of Medical Attention:

If any acute or chronic symptoms arise or if feeling unwell after exposure, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Techniques/Equipment:

Use extinguishing media appropriate for surrounding environment. Do not use water on molten metal.

Chemical Hazards from Fire:

Iron oxides

Special Equipment and Precautions for Firefighters:

Exercise caution. If entering fire area, wear proper protective equipment including respiratory protection if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures/Personal Protection:

Avoid dust formation. Avoid breathing fumes and dust.

Evacuate all unnecessary personnel.

Protective Equipment:

Use appropriate personal protection equipment (PPE), as listed in section 8.

Methods of Containment & Cleanup:

Sweep up and shovel without creating dust. Keep in closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

When solid, practice good industrial hygiene and safety procedures. Do not allow dust or powder to accumulate on equipment or building surfaces. Clean exposed areas.

Precautions for Safe Storage:

Store in cool, dry and well ventilated location. Seal containers. Keep away from incompatible materials such as oxidizing agents and water.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Iron has no occupational exposure limits. Iron products (such as iron oxide) do have exposure limits. Please refer to the proper SDS for information.

Engineering Controls:

Ensure adequate ventilation. Ensure national/local regulations are observed.

Personal Protective Equipment:

Protective goggles, gloves and clothing. If insufficient ventilation, wear respiratory protection.

Materials for Protective Clothing: Wear chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant gloves. If working with molten or hot material, wear thermally resistant gloves.

Eye Protection: Chemical goggles or safety glasses should be worn at all times. For furnace work, wear a face shield or safety glasses.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Thermal Hazard Protection: For furnace work, fire retardant clothing, gloves, and safety shoes should be worn.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid (Metal)

Color: Grey/Silver

Taste: N/A

Molecular Weight: 55.85 g/mol

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point: 1,535 °C (2,795 °F)

Boiling Point: 2,750 °C (4,982 °F)

Boiling Range: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability: N/A

Upper/Lower Flammability Limits: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Relative Density: 7.86 g/mL at 25 °C

Solubility: Insoluble in water

Partition Coefficient: N/A

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.

Stability: Stable under proper handling and storage conditions.

Hazardous Reactions: No data available.

Conditions to Avoid: Avoid incompatible materials, dust generation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation of dust, fumes. Skin contact through physical contact. Eye contact through physical contact or dust and fumes. Ingestion through contamination of skin/surfaces.

Chronic and Acute Related Symptoms/Effects:

Inhalation of fumes or dust can cause respiratory irritation. Skin contact with molten metal can cause burns. Dust or fumes can cause eye irritation. Chronic ingestion can cause weight loss.

Measures of Toxicology:

Acute Toxicity: Not Classified

Skin Corrosion/Irritation: Not Classified

Serious Eye Damage/ Irritation: Not Classified

Respiratory or Skin Sensitization: Not Classified

Germ Cell Mutagenicity: Not Classified

Reproductive Toxicity: Not Classified

Carcinogenic Information: IARC Group: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects:

Prevent entry to sewers and public waterways. Avoid release to the environment. Ensure accordance with national and local regulations.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORTATION INFORMATION

Not a dangerous good.

Transport Special Precautions: Keep dry.

SECTION 15: REGULATORY INFORMATION**US Federal Regulations:**

SARA Section 302 – None

SARA Section 311/312 Hazard Classes – None

SARA Section 313 Emissions Reporting – None

US State Regulations:

California – Prop. 65 – Non-carcinogenic

Pennsylvania – Right To Know List

New Jersey – Right To Know List

SECTION 16: OTHER INFORMATION

Date of Preparation: 05/31/15

Prepared in accordance with OSHA HCS 29 CFR 1910.1200.

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