

Material Safety Data Sheet

Section I : Product and Contact Information

Product : Iron Filings

Manufacturer : EISCO



WARNING
Flammable Solid

Section II : Hazardous Ingredients/Identity Information

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Section III : Physical and Chemical Characteristics

Boiling Point: 3000 °C / 5432 °F

Vapor Pressure: No information available

Vapor Density: No information available

Solubility: Insoluble in water

Melting Point : 1535 °C / 2795 °F

Physical State: Solid

Evaporation Rate: Negligible

Appearance and Odor: Dark grey, Odorless

Odor Threshold: No information available

pH: No information available

Flammability (solid,gas): No information available

Flammability or explosive limits:

Relative Density: No information available

Flash Point: No information available

Upper: No data available

Lower: No data available

Partition coefficient; n-octanol/water: No data available

Autoignition Temperature: No information available

Decomposition Temperature: No information available

Viscosity: No information available

Molecular Formula: Fe

Molecular Weight: 55.847

Section IV : Fire and Explosion Data

In case of fire: Use CO₂, dry chemical, or foam for extinction.
Fight fire with normal precautions from a reasonable distance.

Suitable Extinguishing Media: Dry sand; approved class D extinguishers.

Unsuitable Extinguishing Media: Do not use halogenated extinguishing agents or foam; Water; Carbon dioxide (CO₂); Dry chemical.

Section V : Reactivity Data

Specific Hazards Arising from the Chemical: Flammable. Risk of ignition. Dust can form an explosive mixture in air. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: Hydrogen

Reactive Hazard: None known, based on information available

Stability: Moisture sensitive.

Conditions to Avoid: Avoid dust formation. Incompatible products. Heat, flames and sparks. Exposure to moist air or water.

Incompatible Materials: Strong oxidizing agents, Acids, Halogens, halogenated agents

Hazardous Decomposition Products: Hydrogen

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing.

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Section VI : First-Aid Measures

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact : Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation : Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

Ingestion : Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects: No information available.

Notes to Physician: Treat symptomatically

Section VII : Precautions for Safe Handling and Use:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Ground/bond container and receiving equipment

Steps to be taken in case material is released or spilled:

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Handling: Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammable area.

Section VIII : Personal Protection:

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Eye Protection: Safety Goggles

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section IX : Exposure Controls:

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical / ventilating / equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Section X : Accidental Release Measure:

Personal Precautions: Use personal protective equipment. Remove all sources of ignition. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Avoid release to the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up: Remove all sources of ignition. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.