

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	IRON METAL FILINGS	Health	1
Chemical Synonyms	Iron Metal	Fire	3
Formula	Fe	Reactivity	1
Unit Size	up to 2.5 Kg.	HMIS * HIGH EXTREME	
C.A.S. No.	7439-89-6	0	1
		2	3
		4	4

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Iron Metal	100%	None established.

CAUTION! IRON DUST DISPERSED IN AIR MAY CONSTITUTE A FIRE AND/OR EXPLOSION HAZARD.

SECTION III PHYSICAL DATA

Melting Point (°F)	1371 - 1483°C	Specific Gravity (H ₂ O = 1)	N/A
Boiling Point (°F)	2850 - 3150°C	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate	(=1) Not applicable.
Vapor Density (Air=1)	N/A		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	Lower Upper
Extinguisher Media	Use dry chemical or sand.		

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus.

Gray-black angular particles; no odor.

Use dry chemical or sand.

UNUSUAL FIRE AND EXPLOSION HAZARDS

A fire hazard in the form of a fine dust dispersed in air or by chemical reaction with strong oxidizers can be an explosion hazard, especially when heated.

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Wear a NIOSH/MSHA-approved self-contained breathing apparatus.

Use dry chemical or sand.

Gray-black angular particles; no odor.

Use dry chemical or sand.

D.O.T. NON REGULATED.

Approved by U.S. Department of Labor *essentially similar* to form OSHA-20

Threshold Limited Value

None established. (ACGIH 1992-93).

Effects of Overexposure

Target organs affected: Respiratory tract.
Iron dust is a skin, eye and mucous membrane irritant, can cause irritation and inflammation of the eyes and lungs. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush with water, then wash with soap and water. **INHALATION AS DUST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms of illness develop, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	Oxidizes readily in moist air.

Incompatibility (Materials to Avoid)

Strong oxidizers, organic acids. Mineral acids, water.

Hazardous Decomposition Products

None.

Hazardous Polymerization

Conditions to Avoid

May Occur	Will Not Occur
	X

Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Sweep up for recycling or place in a suitable container for disposal.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Uncontaminated material may be disposed of in a sanitary landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection: None should be needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves

None needed.

Eye Protection

Chemical safety glasses.

Other Protective Equipment: Goggles, eye wash station, lab coat.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry place, away from acids and oxidizers. Wash thoroughly after handling.

Keep container tightly closed when not in use.

Read label on container before using. Do not wear contact lenses when working with chemicals.

Other Precautions

Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 7	Date	3/16/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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