

MATERIAL SAFETY DATA SHEET

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16553, 16554, 16557
MSDS No. 78395-02
Effective Date 3/31/88

SECTION I NAME

Product	Iron metal
Chemical Synonyms	Iron filings
Formula	Fe(m)
RTECS #	—
C.A.S. No.	7439-89-6

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300 Day (312) 364-0150	HEALTH	0		
	FLAMMABILITY	0		
	REACTIVITY	0		
HAZARD RATING				
LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
NA = Not Applicable		
NE = None Established		

SECTION III PHYSICAL DATA

Melting Point (°F)	1535°C	Specific Gravity (H ₂ O = 1)	7.88
Boiling Point (°F)	3000°C	Percent Volatile by Volume (%)	NA
Vapor Pressure (mm Hg)	NA	Evaporation Rate (= 1)	NA
Vapor Density (Air = 1)	NA		
Solubility in Water	Insoluble		
Appearance and Odor	Grey, odorless metallic particles.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	NA	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Use any medium suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not considered to be a fire hazard. Not considered to be an explosion hazard.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

NE

Effects of Overexposure

Acute: Mechanical irritation of the eye possible and GI tract if large amounts ingested.
Chronic: NA

Emergency and First Aid Procedures

SKIN: Wash exposed area with soap and water. Get medical advice if irritation occurs.
EYES: Wash thoroughly with running water. Get medical advice if irritation develops. Do not rub. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. INGESTION: Not expected to require first aid measures.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	None
	Stable	X	

Incompatibility (Materials to avoid)

Strong oxidizers, water, halogens, acids, hydrogen peroxide.

Hazardous Decomposition Products

Formation of hydrogen gas possible.

Hazardous Polymerization

Conditions to Avoid

May Occur	Will Not Occur
	X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Sweep up.

Waste Disposal Method

Recycle or landfill according to regulations.

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		Dust			
Ventilation	Local Exhaust	X		Special	
	Mechanical (General)	X		Other	
Protective Gloves		Vinyl or Rubber		Eye Protection	Glasses
Other Protective Equipment	Lab coat				

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool dry location.

Keep container tightly closed when not in use

Other Precautions

Read label on container before using.

Conditions Aggravated/Target Organs: None known.

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

Rev. No.	2	Date	3/31/88	Approved	K. Kuchel	Chemical Safety Coordinator	RMC
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

D.O.T. Metal shavings ORM-C UN2793

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