

# MATERIAL SAFETY DATA SHEET

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CENTRAL SCIENTIFIC COMPANY, LTD.  
1830 MATTAWA AVENUE MISSISSAUGA, ONTARIO L4X 1K1

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

## SECTION I NAME

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

## 24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300 Day (312) 364-0150	<b>HEALTH</b>	0		
	<b>FLAMMABILITY</b>	0		
	<b>REACTIVITY</b>	0		
<b>HAZARD RATING</b>				
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

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

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	NA	<b>Flammable Limits in Air % by Volume</b>	Lower	Upper
<b>Extinguisher Media</b>	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

<b>Stability</b>	Unstable		<b>Conditions to Avoid</b> 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** None

<b>May Occur</b>	<b>Will Not Occur</b>
	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

<b>Respiration Protection (Specify Type)</b>	Dust		
<b>Ventilation</b>	<b>Local Exhaust</b>	X	<b>Special Other</b>
	<b>Mechanical (General)</b>	X	
<b>Protective Gloves</b>	Vinyl or Rubber		<b>Eye Protection</b> Glasses
<b>Other Protective Equipment</b>	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.

<b>Rev. No.</b>	2	<b>Date</b>	3/31/88	<b>Approved</b>	K. Kuchel	<b>Chemical Safety Coordinator</b>	RMC
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**D.O.T.** Metal shavings ORM-C UN2793