



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. IX 215
Effective Date March 16, 1999

SECTION V HEALTH HAZARD DATA IX 215

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	Stable	Conditions to Avoid
		X	Oxidizes readily in moist air.

Incompatibility (Materials to Avoid)	Strong oxidizers, acids. Reacts violently with Cl ₂ , ClF ₂ , F ₂ , H ₂ O ₂ , NO ₂ , P, H ₂ SO ₄ .
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Hazardous Decomposition Products	None.
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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.
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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.
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Uncontaminated material may be disposed of in a sanitary landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask.
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Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	If dusty.	Other	No.

Protective Gloves	None needed.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, eye wash station, lab coat.
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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.	

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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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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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. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	IRON METAL POWDER
Chemical Synonyms	Iron Metal
Formula	Fe
Unit Size	up to 2.5 Kg.
C.A.S. No.	7439-89-6

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

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
Health 1
Fire 3
Reactivity 1

SECTION II INGREDIENTS OF MIXTURES

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

WARNING! IRON POWDER DISPERSED IN AIR MAY

CONSTITUTE A FIRE AND/OR EXPLOSION HAZARD.

SECTION III PHYSICAL DATA

Melting Point (°F)	1535°C (2795°F)	Specific Gravity (H ₂ O = 1)	7.86
Boiling Point (°F)	3000°C (5432°F)	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	1 mm at 1787°C	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	1.93		
Solubility in Water	Insoluble.		
Appearance & Odor	Gray-black granulated or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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SPECIAL FIREFIGHTING PROCEDURES

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

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800-7, GUIDE PAGE NO. 170)

UNUSUAL FIRE AND EXPLOSION HAZARDS

A fire hazard in the form of a fine dust or by chemical reaction with strong oxidizers.

D.O.T. Metal powders, flammable, n.o.s., (Iron powder), 4.1, UN 3089, PG III

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