



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. FF 136
Effective Date February 25, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	FERRIC OXIDE, BLACK	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 1 0 1
Chemical Synonyms	C.I. Pigment Black II; Black Iron Oxide	
Formula	Fe ₃ O ₄	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	1317-61-9	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ferric Oxide, Black	93-94%	See Section V.
Silicon dioxide: (CAS No. 7631-86-9)	~1%	TWA: 10 mg/m ³
CAUTION! MAY CAUSE IRRITATION OF THE		
SKIN AND EYES IN SENSITIVE INDIVIDUALS.		

SECTION III PHYSICAL DATA

Melting Point (°F)	>1000°C (>1832°F)	Specific Gravity (H ₂ O = 1)	Approx. 4.6 @ 20°C
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	Black powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing other combustible materials in the area.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Exposure to excessive heat may cause this material to become unstable (slowly auto-oxidizes) which generates additional heat. Under certain conditions, this heat may be sufficient to cause combustible materials to ignite.

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value

None established for this material by ACGIH 1992-93.
The ACGIH-TLV for nuisance particulate of 10 mg/m³ is recommended.

Effects of Overexposure

On the basis of animal toxicity data, we would expect this product to be non-irritating to the eyes and skin and essentially non-toxic by ingestion. However, excessive exposure to airborne dust may reduce visibility and/or cause unpleasant deposits in the eyes, ears and nose. Injury to the skin or mucous membranes can occur by direct mechanical action or by rigorous cleaning necessary for removal of dust. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ill effects develop, get medical attention.
EYES: Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention.
SKIN: Flush thoroughly with water, then wash with mild soap and water.
INGESTION: Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	At temperatures above 80°C (176°F) product may become unstable and auto-oxidize into Fe ₂ O ₃ .
	Stable		

Incompatibility (Materials to Avoid)	Strong oxidizers.
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Hazardous Decomposition Products	None known. Decomposes @ 80°C (176°F).
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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

Vacuum or sweep material into an appropriately marked container for reclamation or disposal. Avoid excessive generation of dust. Wash spill area with soap and water.

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. Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizers, sources of heat, flammable or combustible materials. Wash thoroughly after handling.
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Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid breathing dust. Avoid contact with skin and eyes. Remove and wash contaminated clothing.

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

Revision	No. 2	Date	2/25/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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D.O.T. **NON-REGULATED.**

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