



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. FF 192  
Effective Date February 9, 1999

## SECTION V HEALTH HAZARD DATA

FF 192

### Threshold Limited Value

None established for this mixture.

### Effects of Overexposure

**INGESTION:** May cause gastrointestinal tract disturbances, possible shock, vomiting, liver and kidney damage. **EYES:** Contact may cause irritation. **SKIN:** Contact with the skin, especially if repeated or prolonged, may cause irritation.

### Emergency and First Aid Procedures

**EYES:** Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush with soap and water. If irritation develops or persists, get medical attention. **INHALATION AS A MIST:** Remove to fresh air. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and get medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature to cause evaporation.
	Stable	X		

Incompatibility (Materials to Avoid)	Aqueous solutions are oxidized slowly by air when cold, rapidly when hot; rate of oxidation increased by addition of alkali or exposure of light. Alkalies, soluble carbonates, gold and silver salts, lead acetate, limewater, potassium iodide, potassium and sodium tartrate, sodium borate.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce oxides of sulfur (SO <sub>x</sub> ).
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur	Will Not Occur	
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Flush the aqueous solution down drain with plenty of water.
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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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Flush the aqueous solution down drain with plenty of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.			
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Ventilation	Local Exhaust	Not required.	Special	None.
	Mechanical (General)	Not required.	Other	None.

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

Precautions to be Taken in Handling & Storing	Store in a cool place. Wash thoroughly after handling. Keep container tightly closed when not in use.
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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. 2	Date 2/9/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employees 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	FERROUS SULFATE, 0.01 N SOLUTION	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> Health 1 Fire 0 Reactivity 0
Chemical Synonyms	Iron (II) Sulfate, Water Solution	
Formula	Mixture.	
Unit Size	up tp 4 Liter	
C.A.S. No.	Mixture.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ferrous Sulfate: (CAS No. 7720-78-7)	0.15%	None established.
Water: (CAS No. 7732-18-5)	99.85%	None established.

CAUTION! MAY BE HARMFUL IF SWALLOWED. IRRITANT.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	99.85%
Vapor Pressure (mm Hg)	14 (water).	Evaporation Rate (Water = 1)	Less than 1.
Vapor Density (Air=1)	0.7 (water).		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white, water like liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

This solution due to its chemical composition and/or its concentration does not present any firefighting hazard.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

There are no unusual fire and explosion hazard associated with this solution.

D.O.T. NON-REGULATED.

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