



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. HH 5
Effective Date November 5, 1998

SECTION V HEALTH HAZARD DATA

HH 5

Threshold Limited Value

None established (ACGIH 1992-93).

Effects of Overexposure

EYES: No toxicity data found, but contact may cause irritation and slight corneal injury. **SKIN:** No toxicity data found, but contact may cause irritation and/or allergic reaction. **INHALATION:** No toxicity data found, but excessive dust may cause irritation if inhaled. **INGESTION:** May cause irritation of the mouth, throat, esophagus and gastrointestinal tract.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call physician immediately. **SKIN:** Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Call a physician if irritation persists. **EYES:** Flush with water for 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists. **INGESTION:** If swallowed, if conscious, drink water and call a Poison Control Center or physician immediately. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	Thermal decomposition or burning emits carbon dioxide and/or carbon monoxide.
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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	Reclaim as much as possible. Wear appropriate protective clothing. Collect material in a manner that will not create dust. Place material in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.
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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. Dispose of in an approved incinerator equipped with an afterburner and scrubber.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	A qualified industrial Hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH/MSHA and appropriate to the hazard.		
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Ventilation	Local Exhaust	As needed to control.	Special	No.
	Mechanical (General)	As needed to control.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat or long sleeved garment to limit skin exposure. Access to a safety shower and eye wash.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from oxidizing 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. Do not inhale, ingest or allow material to contact skin or eyes. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.			
Revision No. 3	Date 11/5/98	Approved Michael Raszeja	Chemical Safety Coordinator MR

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SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	HEMOGLOBIN, BOVINE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4
Chemical Synonyms	Methemoglobin, Bovine Hemoglobin	
Formula	Approx. (C738H1166FeN208S2)4	
Unit Size	25, 50, 100 grams	
C.A.S. No.	9008-02-0	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Hemoglobin, Bovine	>94	None established.

CAUTION! CONTACT WITH DUSTS MAY IRRITATE

EYES, SKIN OR MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes on heating.	Specific Gravity (H ₂ O = 1)	No data.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Solid - not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Solid - not applicable.		
Solubility in Water	1 gram dissolves in 7 mL. water		
Appearance & Odor	Dark red brown crystalline powder.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Data not available.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Media suitable to extinguish the supporting or surrounding fire.
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react with strong oxidizing materials.

D.O.T. NON-REGULATED.

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