



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. GG 205
Effective Date October 20, 1998

SECTION V HEALTH HAZARD DATA

GG 205

Threshold Limited Value Toxicity data: orl-mouse LD50: 5000 mg/kg.
None established ACGIH (1992-93).

Effects of Overexposure May be harmful by inhalation, ingestion or contact with skin. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
INHALATION: Remove to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. **SKIN:** Flush with large amounts of water. Get medical attention if irritation persists. **INGESTION:** If conscious, give water or milk to drink. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. **EYES:** Flush immediately with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, heat, spark or open flame.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products May include toxic and corrosive fumes of ammonia and toxic oxides of nitrogen, carbon and sulfur.

Hazardous Polymerization		Conditions to Avoid	Not available.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container for reclamation or disposal. Do not flush material into sewer.

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) Local exhaust ventilation required. Use a NIOSH/MSHA-approved respirator.

Ventilation	Local Exhaust	Recommended.	Special	Explosion proof.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety goggles.

Other Protective Equipment Lab coat, apron, eye wash station, proper gloves and ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store away from heat, sources of ignition and oxidizing agents, in a cool, dry area. Wash thoroughly with soap and water 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.
Avoid contact with skin, eyes and clothing. Do not breathe dust. Use adequate ventilation. 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 10/20/98	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	GLUTATHIONE	 CHEMTREC 800-424-9300 Day 716-226-6177	Health	2
Chemical Synonyms	N-(N-L-gamma-Glutamyl-L-cysteinyl)-glycine		Fire	1
Formula	C ₁₀ H ₁₇ N ₃ O ₆ S		Reactivity	0
Unit Size	up to 2.5 Kg.		HMIS *	
C.A.S. No.	70-18-8	NFPA HAZARD RATING	LEAST SLIGHT MODERATE HIGH EXTREME	0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Glutathione	100%	None established.
WARNING! MAY CAUSE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	192 - 195°C (378 - 383°F)	Specific Gravity (H ₂ O = 1)	N/A
Boiling Point (°F)	None listed.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible.	Evaporation Rate (Butyl acetate = 1)	Negligible.
Vapor Density (Air=1)	None listed.		
Solubility in Water	Moderately soluble.		
Appearance & Odor	Colorless or white to off-white crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Dry chemical, CO ₂ , water spray or foam.				

SPECIAL FIREFIGHTING PROCEDURES

Do not scatter spilled material with high-pressure water stream. Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fine powder forms flammable and explosive mixtures in air. May burn but does not ignite readily. May react with strong oxidizers.

D.O.T. Non-regulated.

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