



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. UU 50
Effective Date June 1, 1999

SECTION V HEALTH HAZARD DATA

UU 50

Threshold Limited Value

None established by (ACGIH 1992-93).

Effects of Overexposure

INHALATION: Non-hazardous. **EYES:** No specific hazard is known. However, any material that contacts the eye may be irritating. **SKIN:** Low hazard. May cause irritation or allergic reaction. **INGESTION:** Low hazard. May cause irritation of mouth, throat, esophagus and gastrointestinal tract.

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:** Wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give water to drink and call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	When heated to decomposition, emits toxic fumes of oxides of nitrogen and sulfur.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Sweep up and place in a suitable container for disposal in a sanitary landfill. Wash spill area with soap and 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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Uncontaminated material may be disposed of in a sanitary landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

Protective Gloves	None needed.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, 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 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.
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Use with 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. 5	Date	6/1/99	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	UREASE
Chemical Synonyms	Urease (From Jack Bean Meal)
Formula	Complex Enzyme
Unit Size	up to 2.5 Kg.
C.A.S. No.	9002-13-5

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

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

Health	0
Fire	0
Reactivity	0

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Urease	100%	None established.
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CAUTION! LOW HAZARD FOR USUAL LABORATORY

HANDLING; NON-TOXIC. MAY CAUSE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes.	Specific Gravity (H ₂ O = 1)	Less than 1.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Slightly soluble.		
Appearance & Odor	Tan, mealy 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
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical.				

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

As with all fine powders, dust explosion exists if adequate concentrations of dust are allowed to build up in the air and exposed to spark or ignition source.

D.O.T. NON-REGULATED.

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