



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. LL 200
Effective Date October 9, 1998

SECTION V HEALTH HAZARD DATA

LL 200

Threshold Limited Value

None established. (ACGIH 1992-93).

Effects of Overexposure

May be slight skin and/or respiratory irritant upon exposure to dust. Primarily an allergic reaction. **INGESTION:** Low hazard. **EYES:** No specific hazard known. Contact may cause irritation. **INHALATION:** Repeated breathing of dust could cause allergic rhinitis and/or bronchial asthma. **SKIN:** Careless handling could cause dermatologic problems such as eczema-like lesions on hands and body.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If ill effects develop, get medical attention. **SKIN:** Flush with water, then wash with soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INGESTION:** None indicated. Treat symptomatically and supportively. If illness develops, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Moisture, excessive temperature, heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizers, caustic materials.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide, oxides of nitrogen (NO _x) and Sulfur (SO _x).
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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	Minimize dusting and prevent distribution of airborne dust. Vacuum clean or wet mop spill. Flush to sewer with copious amounts 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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Dispose of in an approved incinerator or in a sanitary landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, 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 oxidizing agents and caustic materials. To prolong product life, store in a dry sealed container at 4°C. 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. May absorb moisture in long-term storage under high humidity. Use in keeping with good laboratory practices, to avoid contact and/or inhalation of dust. 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. 4	Date 10/9/98	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	LIPASE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>0</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	0	Fire	0	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	0																	
Fire	0																	
Reactivity	1																	
Chemical Synonyms	Enzyme Powder																	
Formula	Complex Protein Molecule																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	9001-62-1																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lipase	100%	None established.

LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes on heating.	Specific Gravity (H ₂ O = 1)	No data available.
Boiling Point (°F)	Decomposes on heating.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Non-volatile (NA).
Vapor Density (Air=1)	None listed.		
Solubility in Water	Complete.		
Appearance & Odor	Light tan amorphous powder; characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical (ABC).				

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Powder form in air is capable of creating a dust explosion.

D.O.T. NON-REGULATED.

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