



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. RR 05  
Effective Date April 23, 1999

## SECTION V HEALTH HAZARD DATA

RR 05

### Threshold Limited Value

None established by (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** Inhalation of enzyme dust may cause allergic type reaction in susceptible individuals upon repeated exposure. **SKIN:** May cause irritation. **EYES:** Material will cause irritation upon contact with the eye. **INGESTION:** Can cause irritation to mouth and throat. **CHRONIC EFFECTS OF OVEREXPOSURE:** Repeated inhalation of enzyme dust by susceptible individuals may result in allergic sensitization.

### Emergency and First Aid Procedures

**INHALATION:** Remove from exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INGESTION:** Rinse mouth and throat with tap water. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, heat, high humidity and ultraviolet (sunlight).
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	Thermal decomposition or burning emits toxic fumes of carbon dioxide and/or carbon monoxide and oxides of nitrogen (NO <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 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.

Dispose of in an approved incinerator or in a sanitary landfill.

## 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)	Not needed.	Other	No.

Protective Gloves	Rubber for prolonged or repeated contacts.	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	Maintain good housekeeping. Avoid generation of dust or aerosol. Avoid exposure of enzyme product to conditions of high temperatures and humidity which may reduce product activity. Store in a cool, dry place.
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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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Avoid prolonged contact with skin and eyes. Wash thoroughly after handling. 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 4/23/99	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	RENNIN, POWDER
Chemical Synonyms	Rennase; Chymosin
Formula	Natural Product (Not Determined)
Unit Size	up to 500 grams
C.A.S. No.	9073-79-4

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

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS \*

Health	0
Fire	1
Reactivity	0

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Rennin, Powder	100%	None established.

### LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Data not listed.	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.3
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	Approximately 1 gram per 100 mL. at 20°C.		
Appearance & Odor	Yellowish or brown to tan powder, grains or scales; peculiar, not unpleasant fermentation 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 <sub>2</sub> ); dry chemical.				

### SPECIAL FIREFIGHTING PROCEDURES

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

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

D.O.T. NON-REGULATED.

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