



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. TT 286
Effective Date May 24, 1999

SECTION V HEALTH HAZARD DATA

TT 286

Threshold Limited Value

None established for this product (ACGIH 1992-93).
Toxicity data: ivn-rat LD50: 36 mg/kg; ipr-mus LD50: 100 mg/kg.

Effects of Overexposure

EYES: Contact may cause irritation and slight corneal injury. **SKIN:** Contact may cause irritation and/or allergic reaction. **INHALATION:** No toxicity data found, but excessive dust may cause irritation if inhaled. Can cause respiratory allergy in susceptible individuals. **INGESTION:** May cause irritation of mouth, throat, esophagus and gastrointestinal tract.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. If discomfort or illness develops, get medical attention. **INGESTION:** If swallowed, if conscious, give water to drink and call physician or Poison Control Center immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Avoid moisture and heat.

Incompatibility (Materials to Avoid)	Like most enzymes this material is heat labile. Strong oxidizers.
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Hazardous Decomposition Products	Thermal decomposition will produce carbon dioxide, carbon monoxide.
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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. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. 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. Dispose of in an approved chemical incinerator or contract with a licensed waste disposal service.
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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 or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, 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. Wash thoroughly after handling. May burn but does not ignite readily. Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Keep container tightly closed when not in use.
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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 and eyes. Use with adequate ventilation. 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. 5 <th>Date</th> <td>5/24/99<th>Approved</th><td>Michael Raszeja<th>Chemical Safety Coordinator</th><td>MR</td></td></td>	Date	5/24/99 <th>Approved</th> <td>Michael Raszeja<th>Chemical Safety Coordinator</th><td>MR</td></td>	Approved	Michael Raszeja <th>Chemical Safety Coordinator</th> <td>MR</td>	Chemical Safety Coordinator	MR
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SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	TRYPSIN 1:100
Chemical Synonyms	Proteolytic Enzyme, Parenzyme
Formula	Not determined.
Unit Size	up to 500 grams
C.A.S. No.	9002-07-7

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1
0

0

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

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

Health 2
Fire 1
Reactivity 0
HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Trypsin 1:100: Essentially a single chemical		None established.
component. Exact % not determined or may vary slightly.		
WARNING! MAY BE HARMFUL IF SWALLOWED.		
CAUSES SKIN AND EYE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes on heating.	Specific Gravity (H ₂ O = 1)	Variable - not determined.
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Soluble.		
Appearance & Odor	Yellow to grayish-yellow powder or crystals.		

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	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust may cause an explosive hazard. Reacts with strong oxidizers.

D.O.T.	NON-REGULATED.
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20