



**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

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Avoid moisture and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Like most enzymes this material is heat labile. Strong oxidizers.

**Hazardous Decomposition Products** Thermal decomposition will produce carbon dioxide, carbon monoxide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		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.

**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.

## 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.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>Adequate to maintain below exposure limit.</b>

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Lab coat, apron, eye wash station, proper gloves, ventilation hood.

## 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.

**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.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 5	<b>Date</b> 5/24/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	TRYPSIN 1:100	 <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 * Health 2 Fire 1 Reactivity 0</p>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
LEAST	SLIGHT		MODERATE	HIGH	EXTREME							
0	1		2	3	4							
<b>Chemical Synonyms</b>	Proteolytic Enzyme, Parenzyme											
<b>Formula</b>	Not determined.											
<b>Unit Size</b>	up to 500 grams											
<b>C.A.S. No.</b>	9002-07-7											

## SECTION II INGREDIENTS OF MIXTURES

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

## SECTION III PHYSICAL DATA

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

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	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.

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