



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. MM 250  
Effective Date March 26, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	D-MANNOSE
Chemical Synonyms	Seminose, Carubinese
Formula	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>
Unit Size	up to 2.5 Kg.
C.A.S. No.	3458-28-4

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

Health	0
Fire	1
Reactivity	0

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
D-Mannose	100%	None established.
LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	138°C (280°F) dec.	Specific Gravity (H <sub>2</sub> O = 1)	1.54
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Ac. = 1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	250 grams per 100 mL. water at 20°C.		
Appearance & Odor	Light cream to pale yellow crystals or 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 <sub>2</sub> ); dry chemical.				

### 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 dispersed 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

## SECTION V HEALTH HAZARD DATA MM 250

### Threshold Limited Value

None established. (ACGIH) No toxicity information is available for this compound. As a naturally occurring sugar, it is expected to present a low health hazard for normal laboratory use.

### Effects of Overexposure

**INHALATION:** Low hazard for usual laboratory handling. **SKIN:** Low hazard for usual laboratory handling. **EYES:** No specific hazard known to us. However, any material that contacts the eye, may be irritating and cause mechanical injury. **INGESTION:** Not a hazard.

### Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If ill effects develop, get medical attention. **SKIN:** Flush with water. **EYES:** Flush thoroughly with water. If irritation develops or persists, get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature or heat.
	Stable	X	
Incompatibility (Materials to Avoid)	Strong oxidizers (Nitric acid, Potassium permanganate, chlorates, etc.).		
Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide.		
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

Sweep up and place in a suitable container for disposal by incineration or dissolve in water and flush to sewer with copious amounts of 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 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, wear a NIOSH/MSHA-approved dust mask.			
Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	None needed.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Eye wash station, lab coat, ventilation hood.			

## SECTION IX SPECIAL PRECAUTIONS

### Precautions to be Taken in Handling & Storing

Store in a cool, dry place away from strong oxidizers. Wash thoroughly after handling.

### Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

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

Revision	No. 3	Date	3/26/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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