



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. BB 143  
Effective Date February 10, 1998

## SECTION V HEALTH HAZARD DATA

BB 143

### Threshold Limited Value

None established. (ACGIH 1992-93)

### Effects of Overexposure

Ingestion may cause decreased appetite, weakness, rheumatic pain, diarrhea, fever, metal line on gums. Causes skin and eye irritation. Irritating to mucous membranes and upper respiratory tract.

### Emergency and First Aid Procedures

**INGESTION:** If swallowed, if conscious, rinse mouth with water and call a physician. Never give anything by mouth to an unconscious person.  
**EYES:** Flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water.  
**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Keep away from combustible materials, heat, sparks, flame.
	Stable	X		

Incompatibility (Materials to Avoid)	Combustible materials and strong reducing agents, acids, metals, organic material, finely powdered metals.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce Carbon monoxide, carbon dioxide, nitrogen oxides and bismuth oxides.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur		
		X

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate area. Wear protective clothing. Sweep up and place in a suitable container for proper 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 accordance with federal, state and local regulations.
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## 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.		
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, safety goggles, eye wash station, proper gloves, and fire extinguisher.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Protect from moisture. Store in a cool, dry place away from combustible materials, heat, sparks, and open flame. Wash thoroughly after handling. <small>Keep container tightly closed when not in use.</small>
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.  Avoid contact with skin, eyes and clothing. 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. 1	Date	2/10/98	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	BISMUTH NITRATE	
Chemical Synonyms	Bismuth, Trinitrate	
Formula	Bi(NO <sub>3</sub> ) <sub>3</sub> ·5H <sub>2</sub> O	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	10035-06-0	

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

Health	1
Fire	0
Reactivity	3

**NFPA HAZARD RATING**

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

**HMIS \***

## SECTION II INGREDIENTS OF MIXTURES

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

**DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL**

**MAY CAUSE FIRE. AVOID CONTACT WITH EYES AND SKIN.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	30°C (86°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.830
Boiling Point (°F)	80°C (176°F)	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	Decomposes in water		
Appearance & Odor	White crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Water spray; dry chemical (ABC); or carbon dioxide (CO <sub>2</sub> ).
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### SPECIAL FIREFIGHTING PROCEDURES

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

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Strong oxidizer; In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance.

D.O.T. **NITRATES, INORGANIC, N.O.S., (BISMUTH NITRATE), 5.1, UN 1477, PG II**

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