



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. BB 03  
Effective Date January 26, 1999

## SECTION V HEALTH HAZARD DATA

BB 03

**Threshold Limited Value** ACGIH 1992-93: TWA = 0.5 mg/m<sup>3</sup>.  
RTECS No. CQ8370000

**Effects of Overexposure** Caustic burns on skin, eyes and mucous membranes, corneal damage and blindness may result. Moderately toxic via oral exposure route.

**Emergency and First Aid Procedures**  
**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, do **NOT** induce vomiting. Call a physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature, heat, ignition source, water.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Water, acids, oxidizing agents, chlorinated and fluorinated hydrocarbons such as CCl<sub>4</sub>.

**Hazardous Decomposition Products** Hydrogen (explosive), barium hydroxide solution (caustic/toxic).

<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. Collect and pack in dry, airtight container under paraffin oil, if possible. Do not sweep up material. Cover with dry sand. Do not allow material to contaminate water sources or sewers, reaction with water forms corrosive barium compounds.

**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. This material is a hazardous waste (as per RCRA) because of its reactivity. Disposal should be conducted by an EPA (RCRA) permitted disposer or an EPA (RCRA) permitted disposal facility.

## 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>No.</b>

**Protective Gloves** Rubber. **Eye Protection** Chemical safety goggles.

**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 dry area, away from heat and other sources of ignition. Store under argon or paraffin oil in airtight container. Protect from moisture and air. Keep container dry.  
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.

Avoid contact with skin, eyes and clothing. 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.

<b>Revision</b> No. 5	<b>Date</b> 1/26/99	<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>	BARIUM METAL	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177 <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 <b>HMIS *</b> HEALTH FIRE REACTIVITY 1 3 2
<b>Chemical Synonyms</b>	N/A	
<b>Formula</b>	Ba	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	7440-39-3	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Barium Metal	100%	See Section V.
<b>DANGER! FLAMMABLE SOLID. DANGEROUS WHEN WET.</b>		
<b>AVOID CONTACT WITH SKIN AND EYES.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	850°C (1562°F)	Specific Gravity (H <sub>2</sub> O = 1)	3.74
Boiling Point (°F)	1695°C (3085°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate ( =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	React violently with water, liberates highly flammable gases.		
Appearance & Odor	Silver or gray, slightly lustrous, somewhat malleable metal; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Flammable solid.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
<b>Extinguisher Media</b>	Dry sand, powder, graphite, soda ash. Do <b>NOT</b> use water or carbon dioxide type extinguisher.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Do NOT use water to extinguish fires.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 138)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Do **NOT** use water. Reaction with water produces explosive hydrogen gas and enough heat to ignite gas/air mixture plus toxic, corrosive Barium hydroxide solution.

D.O.T. **BARIUM, 4.3, UN 1400, PG II**

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