



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. BB 55
Effective Date January 27, 1999

SECTION V HEALTH HAZARD DATA

BB 55

Threshold Limited Value 0.5 mg/m³ as Barium (ACGIH, 1992-93). Orl-rat LD50: 355 mg/Kg.

Effects of Overexposure **INGESTION:** Oral intake may cause weakness, salivation and nausea, followed by vomiting and diarrhea. Patient may become cold and experience varying degrees of paralysis. **INHALATION:** May be harmful, with symptoms similar to those of oral intake. Observe allowable limits. **EYES:** May cause irritation, redness and pain. **SKIN:** May cause irritation, redness and pain.

Emergency and First Aid Procedures **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician immediately. Never give anything by mouth to an unconscious person. **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. **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** Excessive temperature, flame and heat.

Incompatibility (Materials to Avoid) Barium dioxide, Magnesium and Zinc. Reducing agents, combustible materials.

Hazardous Decomposition Products Thermal decomposition or burning may produce oxides of nitrogen and barium oxide, barium dust or fume.

Hazardous Polymerization **Conditions to Avoid** Can be explosive when mixed with reducing agents. Mixtures may detonate by heat or shock.

SECTION VII SPILL OR LEAK PROCEDURES **Steps to be taken in case material is released or spilled** Provide adequate ventilation. Wear protective clothing and NIOSH/MSHA-approved dust mask or respirator. Sweep up and collect in dry state and place in a suitable container for proper disposal.

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 landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Work in ventilation hood or if dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation **Local Exhaust** Recommended. **Special** No. **Mechanical (General)** Recommended. **Other** No.

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

Other Protective Equipment Goggles, lab coat, vented hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from clothing and combustible, organic and other oxidizable materials. Wash thoroughly after handling.

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

Avoid contact with skin or eyes.
Remove and wash contaminated clothing.

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

Revision No. 6 **Date** 1/27/99 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

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	BARIUM NITRATE
Chemical Synonyms	Barium Nitrate
Formula	Ba(NO ₃) ₂
Unit Size	up to 2.5 Kg.
C.A.S. No.	10022-31-8

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

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

HMIS *
Health 3
Fire 0
Reactivity 3

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Barium Nitrate	100%	See Section V.
DANGER! STRONG OXIDIZER! POISON		
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.		
MAY BE FATAL IF SWALLOWED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	592°C (1097°F)	Specific Gravity (H ₂ O = 1)	3.24 @ 23°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Unknown.		
Solubility in Water	8.7 grams per 100 mL. at 20°C.		
Appearance & Odor	White crystals or powder; odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

A NIOSH/MSHA-approved self-contained breathing apparatus should be worn for protection against barium-containing dust, mist or fumes.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 141)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Strong oxidizer. Contact with other material may cause fire. Spontaneous chemical reaction with low flash point organics or reducing agents.

D.O.T. BARIUM NITRATE, 5.1, UN 1446, PG II

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