



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. BB 45
Effective Date January 27, 1999

SECTION V HEALTH HAZARD DATA

BB 45

Threshold Limited Value 0.5 mg/m³ as Barium (ACGIH, 1992-93). U.S. H.E.W. Toxic Substance List (1976) gives; orl-hmu TDLo: 80 mg/Kg.; orl-rat LDLo: 335 mg/Kg.

Effects of Overexposure **INGESTION:** May cause excessive salivation vomiting, violent diarrhea, abdominal pain. **INHALATION:** Irritant to mucous membranes. Poisoning may affect the heart, lungs, central nervous system and respiratory system, sore throat shortness of breath. **EYES:** May cause irritation, conjunctivitis. **SKIN:** May cause irritation, dermatitis. Can be very caustic. May cause burns.

Emergency and First Aid Procedures **INGESTION:** If swallowed, if conscious, give one or two glasses of water or milk to drink. Induce vomiting. **CALL A PHYSICIAN.** 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 and heat.

Incompatibility (Materials to Avoid) Acids, chlorinated rubber, metals, fuels.

Hazardous Decomposition Products Thermal decomposition may produce acrid smoke and irritating fumes.

Hazardous Polymerization **Conditions to Avoid** **May Occur** **Will Not Occur** Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Reclaim as much as possible. Wear protective clothing and NIOSH/MSHA-approved dust mask. 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. 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 Absorbs carbon dioxide from air. Store in a cool, dry place away from combustibles. Wash thoroughly after handling. 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 breathing dust. Use with adequate ventilation. Avoid contact with skin and 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 HYDROXIDE
Chemical Synonyms	Barium hydrate, Barium octahydrate
Formula	Ba(OH) ₂ •8H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	12230-71-6 (Octahydrate)

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

Health	3
Fire	0
Reactivity	1

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

HMIS *
3 0 1

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Barium Hydroxide Octahydrate: (CAS No. 12230-71-6)	100%	See Section V.
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DANGER! **POISON. MAY BE FATAL**

IF SWALLOWED. HARMFUL DUST - IRRITANT.

SECTION III PHYSICAL DATA

Melting Point (°F)	78°C (172.4°F)	Specific Gravity (H ₂ O = 1)	2.18 at 16°C.
Boiling Point (°F)	Losses H ₂ O 780°C (1436°F)	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ()	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	Slightly soluble in water.		
Appearance & Odor	White, crystals, granular or powder; odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable solid.	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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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. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products as dust or fume.

D.O.T. Barium compounds, n.o.s., (Barium hydroxide), 6.1, UN 1564, PG III

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