MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No. BB 63
Effective Date January 27, 1999

SECTION I NAME

Product	BARIUM PEROXIDE
Chemical Synonyms	Barium Dioxide
Formula	BaO_2
Unit Size	up to 2.5 Kg.
C.A.S. No.	1304-29-6

24 HOUR EMERGENCY ASSISTANCE

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

NFPA HAZARD RATING

Health	3
Fire	0
Reactivity	3

HMIS *

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Barium Dioxide.	90-96%	See Section V.
Barium Carbonate: CAS No. 513-77-9	4-10%	
DANGER! STRONG OXIDIZER. POISON.		
MAY BE FATAL IF SWALLOWED OR INHALED. HARMFUL DUST. CAUSES BURNS.		

SECTION III PHYSICAL DATA

Melting Point (°F)	450°C (842°F).	Specific Gravity (H_2O = 1)	4.96 @ 20°C
Boiling Point (°F)	Decomposes at 800°C (1472°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	1.500 @ 32°F		
Appearance & Odor	White or grayish-white, heavy powder: Odorless		

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	Use water only.			

SPECIAL FIREFIGHTING PROCEDURES

A NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing should be worn for protection against barium-containing dust, mist or fumes. Use flooding amounts of water in the early stages of fire.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Heat, shock, reducing agents, catalysts can cause explosion or violent reaction. Mixture with combustible organic or readily oxidizable materials are explosive and ignite easily by friction.

D.O.T. **Barium peroxide, 5.1, UN 1449, PG II**

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

SECTION V HEALTH HAZARD DATA BB 63

Threshold Limited Value

TLV TWA: 0.5 mg/m^3 as Barium (ACGIH, 1992-93). IDLH: 250mg/m^3. U.S. H.E.W. Toxic Substance List (1976) gives; orl-hmu TDLo: 80 mg/Kg.

Effects of Overexposure

HARMFUL OR FATAL IF SWALLOWED.
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 AND SKIN:** Contact causes severe burns.

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. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, do not induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability			Conditions to Avoid
	Unstable		Heat, combustibles.
	Stable	X	

Incompatibility (Materials to Avoid)

Hot water, acids, combustible materials, organic or readily oxidizable materials. Finely divided metals.

Hazardous Decomposition Products

Oxides of Barium. Decomposes slowly in water, reaction is non-hazardous.

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

Recover for use if not contaminated. Sweep up and collect in dry state and place in a suitable container for disposal. Residue can be flushed to sewer with water. Use U.S.B.M. approved toxic dust respirator.

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 accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)

None should be necessary for normal laboratory use. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA approved dust mask or U.S.B.M. approved respirator.

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.

Other Protective Equipment

Goggles, smock, apron, proper gloves, fire extinguisher, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Protect against physical damage and moisture. Store in a cool, dry place away from acid or acid fumes, combustible, organic, or readily oxidizable materials. Wash thoroughly after handling.

Other Precautions

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

Avoid breathing dust. 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