



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. PP 395
Effective Date April 15, 1999

SECTION V HEALTH HAZARD DATA

PP 395

Threshold Limited Value

None established (ACGIH 1992-93).
Toxicity: LD50 oral rat: 321 mg/kg

Effects of Overexposure

TARGET ORGANS AFFECTED: Liver, kidneys. **INHALATION:** May result in coughing, shortness of breath, headaches, dizziness, bluish skin. **SKIN AND EYES:** Causes irritation to skin, eyes and mucous membranes. **INGESTION:** Symptoms are abdominal pain, nausea, vomiting, diarrhea, dizziness.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **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	Stable	Conditions to Avoid
		X	Oxidizable materials, high temperatures, excess friction.

Incompatibility (Materials to Avoid)	Keep out of contact with organic matter or other oxidizable substances, sulfuric acid, sulfur, iodides, zinc chloride, magnesium, combustible substances, and reducing agents - charcoal.
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Hazardous Decomposition Products	When heated to decomposition emits toxic fumes of bromine.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Not applicable.	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate area. Wear proper protective clothing and breathing protection. Cover with soda ash (sodium carbonate), scoop 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.
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Contract with a licensed waste disposal service.

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.				
Ventilation	Local Exhaust	If dusty.	Special	No.	
	Mechanical (General)	Recommended.	Other	No.	
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Lab coat, shield and goggles, fire extinguisher, proper gloves, eye wash station.				

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from flammable, combustible materials. Clothing contaminated with Bromate or its solutions is DANGEROUSLY FLAMMABLE! Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothing.

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

Revision No. 5	Date 4/15/99	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	POTASSIUM BROMATE
Chemical Synonyms	Potassium Bromate
Formula	KBrO ₃
Unit Size	up to 2.5 kg
C.A.S. No.	7758-01-2

0
1
0
OXY

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

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE
0 1 2

Health 1
Fire 0
Reactivity 3

HMIS *
HIGH EXTREME
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Bromate	100%	None established.
DANGER! STRONG OXIDIZER! HEAT, SHOCK OR FRICTION MAY CAUSE FIRE		
OR EXPLOSION, ESPECIALLY IF CONTAMINATED WITH OTHER MATERIAL.		
HARMFUL IF INHALED OR SWALLOWED. CAUSES SKIN AND EYE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 370°C (698°F)	Specific Gravity (H ₂ O = 1)	3.27 at 17.5°C
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Data not listed.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	3.1 grams per 100 mL. water at 0°C.		
Appearance & Odor	White crystals crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-Flammable	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Water spray, fog, dry chemical or foam.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

FIRE: Non-combustible. **EXPLOSIVE:** Powerful oxidizing material. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. These mixtures are easily ignited by friction or heat. Containers may rupture when involved in a fire. May yield toxic fumes when involved in fire.

D.O.T. POTASSIUM BROMATE, 5.1, UN 1484, PG II

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