



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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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** **Conditions to Avoid** Oxidizable materials, high temperatures, excess friction.
Stable X

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.

Hazardous Decomposition Products When heated to decomposition emits toxic fumes of bromine.

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 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.

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.
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.
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.
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

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	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS *						
Chemical Synonyms	Potassium Bromate							
Formula	KBrO ₃							
Unit Size	up to 2.5 kg							
C.A.S. No.	7758-01-2	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>3</td> </tr> </table>	Health	1	Fire	0	Reactivity	3
Health	1							
Fire	0							
Reactivity	3							

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 (H₂O = 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