



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 400  
Effective Date April 15, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	POTASSIUM BROMIDE
Chemical Synonyms	Potassium Bromide
Formula	KBr
Unit Size	up to 2.5 Kg.
C.A.S. No.	7758-02-3

	CHEMTREC 800-424-9300 Day 716-226-6177	Health 1 Fire 0 Reactivity 0
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4		HMIS * 0 1 2 3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Bromide	100%	None established.
WARNING! HARMFUL IF SWALLOWED.		
AVOID BREATHING DUST.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	760°C (1400°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.749 at 25°C
Boiling Point (°F)	1435°C (2615°F)	Percent Volatile by Volume (%)	1% by weight.
Vapor Pressure (mm Hg)	1 mm at 795°C	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	4.12		
Solubility in Water	53.5 grams per 100 mL. water at 20°C.		
Appearance & Odor	Colorless crystals, white crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

## 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. Use flooding amounts of water in early stages of fire.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Thermal decomposition or burning may produce hydrogen bromide gas and/or bromine gas.

D.O.T. NON-REGULATED.

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

## SECTION V HEALTH HAZARD DATA PP 400

Threshold Limited Value None established. (ACGIH 1992-93).

## Effects of Overexposure

**TARGET ORGANS AFFECTED:** Central nervous system. **EYES:** May cause irritation. **SKIN:** May cause irritation, dermatitis. **INHALATION:** May cause sore throat, coughing, shortness of breath. **INGESTION:** May cause pain in swallowing, abdominal pain, nausea, drowsiness. In severe cases, depression and psychosis.

## Emergency and First Aid Procedures

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call 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. If irritation develops, get medical attention. **SKIN:** Flush with soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if ill effects develop.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Contact with strong acids can liberate hydrogen bromide; strong oxidants can liberate bromine. Heating above 800°C.
	Stable	X	

Incompatibility (Materials to Avoid)	Avoid contact with strong acids or strong oxidants. Aluminum and its alloys.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce hydrogen bromide gas and/or bromine gas.
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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	Spills can be flushed away with water, in which potassium bromide is readily soluble.
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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. Solutions resulting from flushing spills or leaks can safely be disposed of through sewage systems except where local regulations do not permit such disposal.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None required in normal handling. If dusty conditions prevail, wear a NIOSH/MSHA approved particulate respirator is desired or work in ventilation hood.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves	Rubber if sensitive to irritation.	Eye Protection	Chemical safety glasses.

Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. 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.

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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