



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 601  
Effective Date October 26, 1998

## SECTION V HEALTH HAZARD DATA

PP 601

### Threshold Limited Value

Not established. (ACGIH 1992-93). Toxicity Data: Acute Oral LD50 (Rat-Male) 675 mg/kg; 531 mg/kg (oral mouse) LDLO.

### Effects of Overexposure

Moderately toxic via oral route. Potassium Iodate has been reported as being a casual agent for CNS paralysis. May cause eye irritation, redness, swelling. May cause lung congestion, mucous membrane irritation.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush with water and follow with warm soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician immediately. Never give anything by mouth to an unconscious person. **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	Avoid exposure to combustibles. Heat above 560°C decomposes.

Incompatibility (Materials to Avoid)	Combustibles, reducing agents and organic matter. Aluminum, Arsenic, Carbon, Copper, Phosphorous or sulfur products mixed with iodates may explode on heating.
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Hazardous Decomposition Products	Thermal decomposition products are toxic fumes of iodine, hydrogen iodide, oxides of potassium.
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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	Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Label as Oxidizer. Keep away from sewer or 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. sources. Dispose of in accordance with local, state and federal regulations.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood, fire extinguisher.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from combustibles, reducing agents and organic materials. 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. Remove and wash contaminated clothing promptly.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	10/26/98	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 IODATE
Chemical Synonyms	Iodic Acid, Potassium Salt
Formula	KIO <sub>3</sub>
Unit Size	up to 2.5 Kg.
C.A.S. No.	7758-05-6

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

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

Health	1
Fire	0
Reactivity	3

HMIS \*

3	4
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## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Iodate	100%	See Section V.
DANGER! STRONG OXIDIZER! HARMFUL IF SWALLOWED.		
HEAT SHOCK OR FRICTION MAY CAUSE FIRE OR EXPLOSION,		
ESPECIALLY IF CONTAMINATED WITH OTHER MATERIAL.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	560°C (1040°F) with partial dec.	Specific Gravity (H <sub>2</sub> O = 1)	3.9
Boiling Point (°F)	Decomposes approx. 100°C	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (Ether = 1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	4.52 grams 100 mL. water at 0°C.		
Appearance & Odor	White crystals or powder; possible slight acid odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Dry chemical; carbon dioxide; or alcohol foam.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Material is an oxidizer and greatly increases the burning rate of combustible materials. When heated to decomposition, it emits toxic fumes of iodine, hydrogen iodide and oxides of potassium. Contact with other materials may cause fire. May ignite organic and other easily oxidizable materials.

D.O.T. OXIDIZING SOLID, N.O.S., (POTASSIUM IODATE), 5.1, UN 1479, PG III

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