



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. PP 610
Effective Date April 19, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	POTASSIUM IODIDE
Chemical Synonyms	Potassium Iodide
Formula	KI
Unit Size	up to 2.5 Kg.
C.A.S. No.	7681-11-0

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

Health	2
Fire	0
Reactivity	1

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Iodide	100%	See Section V.
WARNING! HARMFUL IF SWALLOWED.		
CONTACT WITH STRONG OXIDIZERS		
MAY CAUSE FIRE OR EXPLOSION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	723°C (1333°F)	Specific Gravity (H ₂ O = 1)	3.123 at 20°C
Boiling Point (°F)	1330°C (2426°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 745°C	Evaporation Rate (n-Butyl Ac. = 1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	140 grams per 100 mL. water at 20°C.		
Appearance & Odor	Colorless or white crystals, granules or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Flood with water spray or fog.				

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic and corrosive fumes of iodine.

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA PP 610

Threshold Limited Value None established. (ACGIH 1992-93). Classification: Toxicity data: Acute Oral LD50 (Rat) >1600 mg/kg. Slightly toxic.

Effects of Overexposure **TARGET ORGANS AFFECTED:** Thyroid. **EYES:** No specific hazard known. **SKIN:** Low hazard for usual laboratory handling. **INGESTION:** Acute ingestion may cause gastrointestinal irritation and in some individuals hypersensitivity. Chronic ingestion may result in "Iodism" which is characterized by sneezing, salivation, runny nose, headache, fever, mucous membrane irritation and various skin rashes. **INHALATION AS MIST:** May cause irritation to respiratory tract.

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 thoroughly with water, then wash with mild soap and water. **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. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat. Light and moisture.
	Stable		

Incompatibility (Materials to Avoid) Alkaloidal Salts, Chloral Hydrate, Acids, Calomel, Potassium Chlorate, Metallic Salts, Diazonium Salts; Diisopropyl peroxydicarbonate, Oxidants; BrF₃; ClF₃; ClO₄.

Hazardous Decomposition Products Iodine fumes, iodine compounds, and potassium oxide.

Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container for proper disposal. Flush spill area with 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.

Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved dust mask.

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
--------------------------	---------	-----------------------	--------------------------

Other Protective Equipment	Smock, apron, eye wash station, ventilation hood.
-----------------------------------	---

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place, protect from light. 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. Use with adequate ventilation. 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 4/19/99	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.