



Aldon Corporation

221 Rochester Street
Avon, NY 14414
(585) 226-6177

MATERIAL SAFETY DATA SHEET

MSDS No.: PP0601
Revision Date: December 16, 2009
Approved by: James A. Bertsch

MSDS No.: PP0601

Section 1 Chemical Product and Company Information

Product	POTASSIUM IODATE
Synonyms	Iodic Acid, Potassium Salt

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

DANGER! STRONG OXIDIZER!
HARMFUL IF SWALLOWED.

Heat, shock or friction may cause fire or explosion, especially if contaminated with other material. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Store in a cool, dry place. Target organs: Kidneys.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	1
Fire	0
Reactivity	3
Contact	2

HMIS *

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Potassium iodate	7758-05-6	>99%	None established.

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. 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.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. This material is an oxidizer and greatly increases the burning rate of combustible materials.

Extinguishing Media: Carbon dioxide, dry chemical, water spray, alcohol foam.

Flash Point: Non-flammable.

Autoignition temperature: N/A

Explosion Limits: Lower: N/A **Upper:** N/A

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe



None listed.

Section 7 Handling & Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, dry, area. Avoid exposure to combustible and incompatible materials.

OXIDIZER STORAGE CODE YELLOW

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Solid.

Appearance: White crystalline powder.

Odor: Slightly acrid odor.

pH: N/A

Vapor pressure (mm Hg): N/A

Vapor Density (Air = 1): N/A

Evaporation rate (Butyl acetate = 1): N/A

Viscosity: N/A

Boiling point: >1000°C (1832°F)

Freezing / Melting point: 560°C (1040°F)

Decomposition temperature: N/A

Solubility: Complete.

Specific gravity (H₂O = 1): 3.9

Percent volatile (%): N/A

Molecular formula: KIO₃

Molecular weight: 214.00

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid exposure to combustibles and excessive temperatures.

Incompatibilities with other materials: Combustibles, reducing agents and organic matter. Aluminum, arsenic, carbon, copper, phosphorous or sulfur products mixed with iodates may explode on heating.

Hazardous decomposition products: Toxic fumes of iodine, hydrogen iodide, potassium oxides.

Section 11 Toxicological Information

Effects of overexposure: Moderately toxic via oral route. May cause central nervous system failure. May cause gastrointestinal irritation and kidney damage. Ingestion may cause nausea, vomiting and diarrhea. Contact with skin and eyes may cause irritation, redness and pain. Inhalation may cause lung congestion, pulmonary edema, asphyxia and chemical pneumonitis. May cause irritation to the mucous membranes.

ORL-RAT LD50: 675 mg/kg

ORL-MOUSE LDLo: 531 mg/kg

SKN-RBT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: UN1479

Shipping name: Oxidizing solid, n.o.s. (Potassium iodate)

Hazard class: 5.1

Packing group: PG III

Exceptions: Limited Quantity \leq 5 Kg.

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (231-831-9), RCRA code D001

Section 16 Additional Information

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.