



Material Safety Data Sheet Potassium Iodide, ACS

Section 1 - Chemical Product and Company Identification

MSDS Name:

Potassium Iodide, ACS

Catalog Numbers:

LC19690

Synonyms:

None

Company Identification:

LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7681-11-0	Potassium iodide	100

Section 3 - Hazards Identification

Emergency Overview

Appearance: *White crystals***Caution!** May cause eye, skin, and respiratory tract irritation. May cause reproductive and fetal effects.**Target Organs:** *Thyroid***Potential Health Effects****Eye:**

Causes mild eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin. May cause allergic sensitization in certain individuals.

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled. May cause respiratory sensitization.



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Chronic:

May cause reproductive and fetal effects. May interfere with iodine uptake of the thyroid gland and enlarge it. Some references (e.g. Dreisbach's Handbook) say that iodine and iodine compounds are potent sensitizers and that repeated contact may cause sensitivity dermatitis, laryngeal edema, serum sickness with lymph node enlargement, and joint pain and swelling.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid at once.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid if irritation develops.

Ingestion:

Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

Not applicable.

Flash Point:

Not applicable.

NFPA Rating:

CAS# 7681-11-0: Health- 1, Flammability- 0, Instability- 0.

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Scoop material into suitable (plastic or glass) container labeled for disposal.



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Section 7 - Handling and Storage

Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.

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. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Potassium iodide	none listed	none listed	none listed

OSHA Vacated PELs:

None.

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Crystals
Color:	Colorless to white
Odor:	Odorless
pH:	7-9 (aq. soln.)
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	1330°C
Freezing/Melting Point:	680°C
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	3.13
Molecular Formula:	KI



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Molecular Weight: 166.0

Section 10 - Stability and Reactivity

Chemical Stability:

Air sensitive. Moisture sensitive. Light sensitive.

Conditions to Avoid:

Incompatible materials, light, dust generation, moisture, prolonged exposure to air.

Incompatibilities with Other Materials:

Chloral hydrate, calomel, strong reducing agents, oxidizing agents, alkali metals, metals, metal salts, ozone, perchloryl fluoride, charcoal, bromine trifluoride, chlorine trifluoride.

Hazardous Decomposition Products:

Hydrogen iodide, oxides of potassium.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7681-11-0: TT2975000.

LD50/LC50:

CAS# 7681-11-0:

No information found.

Carcinogenicity:

CAS# 7681-11-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:

Potassium iodide has been shown to produce fetotoxicity in newborns.

Teratogenicity:

Teratogenic effects have occurred in humans.

Reproductive:

Adverse reproductive effects have occurred in humans.

Mutagenicity:

Mutagenic effects have occurred in experimental animals.

Neurotoxicity:

No information found

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.



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Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7681-11-0 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

None of the components have an RQ.

CERCLA/SARA Section 313:

None of the components are reportable under Section 313.

OSHA - Highly Hazardous:

None of the chemicals in this product are considered highly hazardous by OSHA.

US State

State Right to Know:

CAS# 7681-11-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Regulations:

None.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7681-11-0 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7681-11-0 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 21, 1998

Revision Date: September 8, 2009

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