



**Material Safety Data Sheet**  
**Potassium iodate-iodide solutions, 0.0125M, 0.1N**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Potassium iodate-iodide solutions, 0.0125M, 0.1N

**Catalog Numbers:**

LC19660, LC19670, LC19680

**Synonyms:****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
7732-18-5	Water	balance
7681-11-0	Potassium iodide	0.4-3.6
144-55-8	Sodium bicarbonate	0.05
7758-05-6	Potassium iodate	0.04-.036

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: Colorless*

*Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation.*

*Target Organs: Noneknown.*

**Potential Health Effects****Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.



## Material Safety Data Sheet

### Potassium iodate-iodide solutions, 0.0125M, 0.1N

**Ingestion:**

May act as a corrosive, cause burning pain, vomiting, diarrhea, retinal damage, coma, convulsions, hematuria, damage to liver, kidneys, gastric mucosa, bladder.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

Chronic exposure can lead to iodism characterized by salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis, and skin rashes. Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Get medical aid. Give conscious victim milk, absorb remaining iodine with starch solution (15g cornstarch/flour to 500ml water). Medical personnel - emesis and lavage not indicated when esophageal injury is present. Milk every 15 minutes may relieve gastric irritation.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

**Extinguishing Media:**

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

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS# 7681-11-0: Not published.

CAS# 144-55-8: Not published.

CAS# 7758-05-6: Not published.

**Explosion Limits:**

Lower:      Upper:



## Material Safety Data Sheet

Potassium iodate-iodide solutions, 0.0125M, 0.1N

### Section 6 - Accidental Release Measures

#### General Information:

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.

### Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

#### Storage:

Store capped at room temperature. Protect from heat and incompatibles.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Provide local exhaust or general dilution ventilation.

#### Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Potassium iodide	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium bicarbonate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Potassium iodate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

#### OSHA Vacated PELs

### Personal Protective Equipment

#### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### Respirators:

Not required for normal use. Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

### Section 9 - Physical and Chemical Properties

Physical State: Clear liquid



## Material Safety Data Sheet

### Potassium iodate-iodide solutions, 0.0125M, 0.1N

**Color:** Colorless

**Odor:** Odorless

**pH:** No information found.

**Vapor Pressure:** No information found.

**Vapor Density:** No information found.

**Evaporation Rate:** No information found.

**Viscosity:** No information found.

**Boiling Point:** No information found.

**Freezing/Melting Point:** No information found.

**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** >1

**Molecular Formula:** No information found.

**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials.

### Incompatibilities with Other Materials

Fluorides (inorganic, e.g. ammonium fluoride, calcium fluoride, cesium fluoride), perchlorates, alkali metals, strong oxidizing agents, diazonium salts, strong reducing agents, phosphorus, thiocyanates, organics, combustible and flammable materials (e.g. alkyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane).

### Hazardous Decomposition Products

Hydrogen iodide, potassium oxide (toxic).

### Hazardous Polymerization

Has not been reported

## Section 11 - Toxicological Information

### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7681-11-0: TT2975000.

CAS# 144-55-8: VZ0950000.

CAS# 7758-05-6: NN1350000.

### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7681-11-0:

No information found. CAS# 144-55-8:

Oral, mouse: LD50 = 3360 mg/kg

Oral, rat: LD50 = 4220 mg/kg.

CAS# 7758-05-6:

No information found.



## Material Safety Data Sheet

### Potassium iodate-iodide solutions, 0.0125M, 0.1N

#### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7681-11-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 144-55-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7758-05-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

#### Epidemiology:

Potassium iodide- eye, skin, mucous membrane irritant, skin sensitizer.

Potassium iodates may affect kidneys, cause hemolysis.

Sodium bicarbonate is a mild irritant, can cause alkalosis in doses over 5g/Kg (Alkalosis also occurs from skin application).

#### Teratogenicity:

#### Reproductive:

#### Mutagenicity:

#### Neurotoxicity:

### Section 12 - Ecological Information

No information found.

### Section 13 - Disposal Considerations

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

### Section 14 - Transport Information

#### US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

### Section 15 - Regulatory Information

#### US Federal

##### TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

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

CAS# 144-55-8 is listed on the TSCA Inventory.

CAS# 7758-05-6 is listed on the TSCA Inventory.

##### SARA Reportable Quantities (RQ)

None of the components are on this list.

##### CERCLA/SARA Section 313

None of the components are on this list.



## Material Safety Data Sheet

Potassium iodate-iodide solutions, 0.0125M, 0.1N

### OSHA - Highly Hazardous

None of the components are on this list.

### US State

#### State Right to Know

#### California Regulations

### European/International Regulations

#### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

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

CAS# 144-55-8 is listed on Canada's DSL List.

CAS# 7758-05-6 is listed on Canada's DSL List.

#### Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

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

CAS# 144-55-8 is not listed on Canada's Ingredient Disclosure List.

CAS# 7758-05-6 is not listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: June 25, 1998

Revision Date: August 16, 2007

*Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.*