



Material Safety Data Sheet Iodine Solutions, 0.01N to 1.0N

Section 1 - Chemical Product and Company Identification

MSDS Name:

Iodine Solutions, 0.01N to 1.0N

Catalog Numbers:

LC15600, LC15610, LC15620, LC15630, LC15660, LC15661, LC15662, LC15674, LC15675, LC19816

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
7732-18-5	Water	balance
7681-11-0	Potassium iodide	1-40
7553-56-2	Iodine	0.15-13

Section 3 - Hazards Identification

Emergency Overview

Appearance: Amber solution**Warning.** May cause irritation by all exposure routes. May cause allergic skin reaction. May cause fetal effects.**Target Organs:** Central nervous system, respiratory system, cardiovascular system.**Potential Health Effects****Eye:**

Contact with liquid or vapors may cause eye irritation.

Skin:

May cause skin irritation. May cause skin sensitization.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

May cause respiratory tract irritation. Extreme exposures may cause pulmonary edema.



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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. Repeated exposures may cause sensitivity dermatitis, laryngeal edema, serum sickness with lymph node enlargement, and joint pain and swelling.

Section 4 - First Aid Measures

Eyes:

Immediately 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:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Move victim to fresh air immediately. Give artificial respiration if necessary. Get medical aid.

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:

Use extinguishing media most appropriate for the surrounding fire.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

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

CAS# 7553-56-2: Health- 3, Flammability- 1, 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.



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Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Absorb spill with inert material, such as sand, dry lime or soda ash, and place in a closed container labeled for disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Solutions evolve iodine vapors. Keep container tightly closed when not in use.

Storage:

Store in a cool, dry area away from excess heat and incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

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
Iodine	0.01 ppm STEL	2 ppm IDLH	0.1 ppm Ceiling 1 mg/m3 Ceiling

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. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective 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. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: Amber



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Odor:	Odorless
pH:	Slight acidic
Vapor Pressure:	No information found.
Vapor Density:	No information found.
Evaporation Rate:	No information found.
Viscosity:	No information found.
Boiling Point:	>100°C (>212°F)
Freezing/Melting Point:	<0°C (<32°F)
Decomposition Temperature:	No information found.
Solubility in water:	No information found.
Specific Gravity/Density:	1.0-1.4
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, excess heat.

Incompatibilities with Other Materials:

Ammonia, acetylene, acetaldehyde, aluminum, active metals, chlorine, alkali metals, strong oxidizing agents.

Hazardous Decomposition Products:

Hydrogen iodide, potassium oxide.

Hazardous Polymerization:

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7681-11-0: TT2975000.

CAS# 7553-56-2: NN1575000.

LD50/LC50:

CAS# 7732-18-5:

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

CAS# 7681-11-0:

Not available

CAS# 7553-56-2:

Oral, mouse: LD50 = 1000 mg/kg

Oral, rabbit: LD50 = 10 g/kg

Oral, rat: LD50 = 14 g/kg.

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.



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CAS# 7553-56-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

Iodine and potassium iodide has been observed to cause developmental abnormalities of the endocrine system in human fetuses.

Reproductive:

No information found

Mutagenicity:

No information found

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.

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# 7553-56-2 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.

OSHA - Highly Hazardous:

None of the components are on this list.



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US State

State Right to Know:

Iodine can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

None.

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# 7553-56-2 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# 7553-56-2 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 8, 1997

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