



Material Safety Data Sheet

Grams Iodine Solution

Section 1 - Chemical Product and Company Identification

MSDS Name:

Grams Iodine Solution

Catalog Numbers:

LC14900

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	6.6
7553-56-2	Iodine	3.3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Darkamber

Caution! May cause eye irritation. May cause digestive tract irritation. May cause dermatitis.

Target Organs: Noneknown.

Potential Health Effects**Eye:**

Iodinesolutionsirritateandstaintheeye,corrosionofepitheliallayercanoccur.

Skin:

Maycausedermatitis.Maycauseskinrashanderuptions.



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Ingestion:

Ingestion may cause severe vomiting, diarrhea, pain, thirst, metallic taste, shock, fever, anuria, delirium, stupor, hemorrhagic nephritis, death. Fatal dose estimated at 2 grams iodine.

Inhalation:

May cause severe irritation to the respiratory tract causing sore throat, headache, vertigo, runny nose, sore and swollen throat, fever, aches, fluid in the lungs, tightness in chest, frothy sputum, dyspnea.

Chronic:

Chronic exposure can lead to iodism characterized by salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis, and skin rashes. Use of iodine in pregnant asthmatics resulted in fetal death, cretinism of newborn, and severe goiter.

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. Skin eruptions may be treated with mild astringent and wet dressing.

Ingestion:

Get medical aid at once. Do not use gastric lavage unless tissue corrosion has occurred. Give oxygen if respiration is depressed. Give conscious victim milk, absorb remaining iodine with starch solution (15g cornstarch/flour to 500ml water). 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. Do not touch spilled material.

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# 7553-56-2: Not published.

Explosion Limits:

Lower: Upper:



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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. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime.

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.
Iodine	None of the components are on this list.	None of the components are on this list.	C 0.1 ppm; C 1 mg/m ³ ;

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. Firefighting - SCBAF:PD,PP 1ppm - SA/SCBA. 5ppm - SAF/SCBAF. 10ppm - SAF:PD,PP,CF. Escape - GMOVAGP/SCBA.



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Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: Darkamber
Odor: Odorless
pH: No information found.
Vapor Pressure: 14mm Hg @20°C
Vapor Density: 0.7 (H₂O=1)
Evaporation Rate: < ether
Viscosity: No information found.
Boiling Point: > 212°F (> 100.00°C)
Freezing/Melting Point: < 32°F (< 0.00°C)
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: 1.1
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

Ammonia, acetylene, acetaldehyde, aluminum, active metals, ethanolic solutions of -mercuric oxide and phosphorus, oxygen difluoride, trioxigen difluoride, ammonium hydroxide, sodium phosphinate anhydrous, chlorine, metal carbides, phosphorus, bromine pentafluoride, chlorine trifluoride, halogens, interhalogens, zinc/water, fluorine, sodium hydride, reducing agents, diazonium salts, trifluoroacetyl hypofluorite.

Hazardous Decomposition Products

Hydrogen iodide, iodine, 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# 7553-56-2: NN1575000.



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LD50/LC50:

CAS# 7732-18-5:

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

CAS# 7681-11-0:

No information found. CAS# 7553-56-2:

Oral, mouse: LD50 = 22 gm/kg

Oral, rabbit: LD50 = 10 gm/kg

Oral, rat: LD50 = 14 gm/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.

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

Epidemiology:

Iodine and iodine salts are severe eye, mucous membrane, and skin irritant/sensitizers.

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# 7553-56-2 is listed on the TSCA Inventory.



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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.

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

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: February 18, 1998

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