

MATERIAL SAFETY DATA SHEET

MSDS No.: 0177.002.00
 Revision Date: December 16, 2011
 Approved by: Darius Nitapon

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 Ronkonkoma, NY 11779
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Section 1 Chemical Product and Company Name

Product	IODINE SOLUTION	ITEM No: CASE-B015P
Synonyms	Iodine-Iodide solution.	CASE-B015
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information

Chemical Name	CAS#	%	TLV Units	
			Not established	Not established
Water	7732-18-5	96%		
Potassium Iodide	7681-11-0	3%		
Iodine	7553-56-2	1%	TWA: 1mg/m ³	

Section 3 Hazards Identification

WARNING!
 HARMFUL IF INHALED OR SWALLOWED. EYE IRRITANT.
 Target organs: Thyroid, blood, kidneys, liver, skin, eyes.

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

Health	2*
Flammability	0
Physical Hazard	0
Personal Protection	C

HMIS

Section 4 First Aid Measures

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Induce vomiting by medical or experienced first-aid. Get medical attention immediately.
INHALATION: Remove to fresh air. Get medical attention if necessary.
EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek immediate medical attention.
SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if irritation develops.

Section 5 Fire Fighting Measures

Non flammable liquid.
 Excessive heat produces corrosive vapors of iodine.

Extinguishing Media: Use TriClass, dry chemical extinguisher or water spray for surrounding fires. Firefighters should use self-contained breathing apparatus and protective clothing.

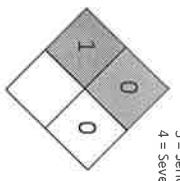
Flash point: N/A
Autoignition temperature: N/A
Explosion limits: Lower: N/A Upper: N/A

Section 6 Accidental Release Measures

Restrict unprotected personnel from the area. Contain the spill with an inert absorbent material and deposit in a sealed bag or container. For small spill use paper towel. Place the wet medium in trash. Ventilate and wash spill area with soap and water.

Section 7 Handling and 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. Use only under adult supervision.
Handling: Use with adequate ventilation. Avoid breathing vapor. Wash hands thoroughly after handling.
Storage: Keep container in cool, well-ventilated area. Keep away from heat.



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Section 8 Exposure Controls/ Personal Protection

Engineering controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use hood or adequate ventilation to keep airborne concentrations below exposure limits.
Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use a NIOSH-approved respirator with proper cartridge when handling this material in emergency situations.

Section 9 Physical and Chemical Properties

Physical state: Liquid
Appearance: Dark brown color.
Odor: Pungent
pH: Not available
Vapor Pressure (mm Hg): 2.3kPa at 20 °C
Vapor Density (Air=1)
Evaporation Rate: not available
Viscosity: not available

Section 10 Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: High temperatures and incompatible materials.
Incompatibilities: Oxidizing agents, reducing agents, organic material, metals, acids, salts and alkalooids.
Potassium iodide and Fluorine perchlorate will explode on contact.
Hazardous decomposition: Not available.
Hazardous polymerization: Will not occur.

Section 11 Toxicological Information

Effects of overexposure: Irritant to eyes. It may irritate skin. It may cause temporary brown stains on skin. Excessive inhalation of iodine vapors may cause respiratory tract irritation, that includes nasal cavity and mucus membrane irritation. Eye contact with excessive amount of iodine vapor may also cause blepharitis. Ingestion of large doses may cause irritation to mouth with thirst, nausea, vomiting, abdominal pain, hypermotility and diarrhea. It may also affect cardiovascular system. Chronic exposure to elevated concentration of iodine may damage thyroid, eyes, skin, blood kidneys, liver. Potassium iodide may affect genetic material based on animal data.

ORL LD₅₀: 14000mg/kg (Rat) (Iodine)
 ORL LD₅₀: 2.4g of Free Iodine [Human] (estimated acute iodine ingestion for an adult)

Section 12 Ecological Information

Data not available.

Section 13 Disposal Considerations

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

Section 14 Transport Information

UN number: Not available
Shipping name: Not controlled.
Hazard Class: N/A
Packing group: N/A
Exceptions: N/A

Section 15 Regulatory Information

TSCA-listed, DSCL (EEC) R36/38 Irritating to eyes and skin, WHMIS (Canada) not controlled.

Section 16 Other Information

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