



MATERIAL SAFETY DATA SHEET

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

17 Colt Court
Ronkonkoma, NY 11779
800-381-8003

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	

Composition/Ingredients Information

Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	96%	Not established
Potassium iodide	7681-11-0	3%	Not established
Iodine	7553-56-2	1%	TWA: 1mg/m³

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

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.

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

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.

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.

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: 0.63 (Air=1)
Evaporation Rate: not available
Viscosity: not available

Boiling point: 212°F/100°C
Melting point: ~0 °C/32 °F
Freezing point: 0 °C/32 °F
Decomposition temp: not available
Solubility: Miscible in water, ethanol.
Specific gravity (H₂O = 1): 1.01 at 20°C
Percent volatile (%): 92.4wt-%
Molecular formula: Mixture
Molecular weight: Mixture

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 alkaloïds.
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 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, hypemotility 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: 1400mg/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

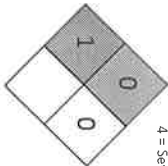
Regulatory Information

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

Section 16

Other Information

The Material Safety Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Lab-Aids, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration. Investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond Lab-Aids, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).



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