

MATERIAL SAFETY DATA SHEET

Revision Date: December 16, 2011 Approved by: Darius Nicpon

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Section 1	Chemical Product and Company Name	
Product	IODINE SOLUTION	ITEM No: CASE-B015P
Synonyms	lodine-lodide solution.	CASE-B015
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

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

Section 3 Hazards Identification

WARNING!	
HARMFULL 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	С

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

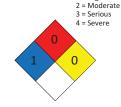
Non flammable liquid. Excessive heat produces corrosive vapors of iodine.

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



0 = Minimal

1 = Slight

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.

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

Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use a NIOSHapproved 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

Section 11

Vapor Pressure (mm Hg): 2.3kPa at 20 °C

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

Freezing point: 0 °C/32 °F **Decomposition temp:** not available **Solubility:** Miscible in water, ethanol.

Boiling point: 212°F/100°C

Melting point: ~0 °C/32 °F

Specific gravity (H₂O = 1): 1.01 at 20°C Percent volatile (%): 92.4Wt% Molecular formula: Mixture Molecular weight: Mixture

Stability and Reactivity Section 10

Chemical Stability: Stable

Conditions to Avoid: High temperatures and incompatible materials.

Incompatibilities: Oxidizing agents, reducing agents, organic material, metals, acids, salts and alkaloids.

Potassium iodide and Fluorine perchlorate will explode on contact.

Hazardous decomposition: Not available. Hazardous polymerization: Will not occur.

Toxicological Information

Effects of overexposure: Irritant to eyes. It may irritate skin. It may cause temporary brown stains on skin. Excessive inhalation of jodine vapors may cause respiratory tract irritation, that includes nasal cavity and mucus membrane irritation. Eve contact with excessive amount of jodine 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: 14000mg/kg[Rat] (lodine) ORL LD₅₀: 2-4g of free iodine [Human] (estimated acute lodine 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 EX-PENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).