

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lugol's lodine Working Solution SYNONYMS: None PRODUCT CODES: ES862

MANUFACTURER: Azer Scientific, Inc. ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

 CHEMTREC PHONE:
 800-424-9300

 SUPPORT:
 610-524-5810

 FAX:
 610-901-3046

PRODUCT USE: Laboratory use only PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Aquatic toxicity - Inhalation (Category 4), Eye Damage/Irritation Category 2A



Signal word: Warning!

Hazard Phrases			
H332	Harmful if inhaled.		
H319	Causes serious eye irritation.		

Precautionary Phrases				
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P261	Avoid breathing dust/ fumes/ gas/ vapors/ spray.			
P302+P352	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
	lenses, if present and easy to do. Continue rinsing.			
P333+P313	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P264	Wash exposed skin thoroughly after handling.			

SECTION 2 NOTES:.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:
lodine
Potassium lodide
Water

<u>CAS NO.</u> 7553-56-2 7681-11-0 7732-18-5

<1 <1 balance

<u>% WT</u>

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES



- EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- SKIN: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
- INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

INHALATION: Move exposed person to fresh air. Get medical attention if symptoms persist.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: **Not flammable** FLASH POINT: **Not available** AUTOIGNITION TEMPERATURE: **Not available**

NFPA HAZARD CLASSIFICATION HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 OTHER:

HMIS HAZARD CLASSIFICATION HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PROTECTION: C

EXTINGUISHING MEDIA: Use extinguishing material suitable for surrounding fire. NOT SUITABLE: N/A SPECIAL FIRE FIGHTING PROCEDURES: No special firefighting procedures for this solution. HAZARDOUS DECOMPOSITION PRODUCTS: Nature of decomposition products is unknown.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original

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container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE PROTECTION: Glasses or splash goggles recommended in accordance with good industrial hygiene and safety practice.

SKIN PROTECTION: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

EXPOSURE GUIDELINES:

Component	Source	Туре	Value	Note
lodine	NIOSH	REL	0.1 mg/m ³ ceiling	
	OSHA	PEL	0.1 mg/m ³ ceiling	
	ACGIH TLV	STEL	0.1 ppm	Aerosol and vapor
	ACGIH TLV	TWA	0.01 ppm	Inhalable fraction and vapor
Potassium lodide	ACGIH TLV	TWA	0.01 ppm	Inhalable fraction and vapor

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Reddish brown ODOR: Faint odor PHYSICAL STATE: liquid pH AS SUPPLIED: Not available BOILING POINT: Not available MELTING POINT: Not available FREEZING POINT: Not available VAPOR PRESSURE (mmHg): Not available VAPOR DENSITY (AIR = 1): Not available EVAPORATION RATE: Not available SOLUBILITY IN WATER: Soluble in water MOLECULAR WEIGHT: Mixture VISCOSITY: Not established

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.

CONDITIONS TO AVOID (STABILITY): Under normal conditions of storage and use, hazardous reactions will not occur. INCOMPATIBILITY (MATERIAL TO AVOID): Not available



HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No known hazardous decomposition products. HAZARDOUS POLYMERIZATION: No hazardous polymerization CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD50: Potassium iodide: 1862 mg/kg (rat) Iodine: 14,000 mg/kg (rat) Inhalation LC50: no data available Dermal LD50: no data available Other information on acute toxicity: no data available Skin corrosion/irritation: no data available Respiratory or skin sensitization: no data available Germ cell mutagenicity: no data available Carcinogenicity: no data available Specific target organ toxicity - single exposure (Globally Harmonized System): no data available Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available Aspiration hazard: no data available Potential Health Effects Inhalation - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May cause skin sensitization Ingestion - May be harmful if swallowed. Signs and Symptoms of Exposure: No data available.

ROUTES OF ENTRY: Skin/eye contact, inhalation

TARGET ORGANS: Thyroid

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: No known environmental toxicity. PERSISTANCE AND DEGRADABILITY: No data available. BIOACCUMULATIVE POTENTIAL: No data available. MOBILITY IN SOIL: No data available. PBT and vPvB ASSESSMENT: Not required.

SECTION 12 NOTES: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: As supplied, not regulated for waste disposal. Spent product or spill clean up-follow all provincial, local, state, and federal regulations. RCRA HAZARD CLASS: Not classified

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated



TDG: Not Regulated IATA: Not Regulated IMDG/IMP: Not Regulated

SECTION 15: REGULATORY INFORMATION

United States HCS Classification: Irritating material

U.S. Federal regulations: TSCA 8(a) IUR: Partial exemption United States inventory (TSCA 8b): Listed on inventory. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 Form R - Reporting: No products were found. DEA List I & II Chemicals (Precursor Chemicals): Listed RTK STATES: Iodine CAS 7553-56-2 PA, NJ, MA California Prop. 65 This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm. CANADA WHMIS (Canada): Not controlled under WHMIS (Canada) Canadian lists: CEPA Toxic substances: None of the components are listed. Canadian ARET: None of the components are listed. Canadian NPRI: None of the components are listed. CEPA DSL / CEPA NDSL: All components are listed or exempted. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)



DISCLAIMER: This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

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