

Section 1. Product and Company Identification

Item Number.: s234a-1
 Common Name.: Lugol's Iodine Working Solution
 Intended Use : In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave
 Bay Shore NY 11706

polyrnd@polyrnd.com

Section 2. Hazard Identification

314 Skin corrosion/irritation Cat 1A, B, C
 332 Acute toxicity, inhalation Cat 4
 335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3
 361 Reproductive toxicity Cat 2
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Causes severe skin burns and eye damage.

Harmful if inhaled. May cause respiratory irritation. Causes damage to organs. Suspected of damaging fertility or the unborn child.

Obtain special instructions before use. Do not handle until all precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed, locked up in well ventilated-area and cool. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap/water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If exposed: Call a POISON CENTER or doctor/physician. IF eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Iodine	7553-56-2	0.10	1.00	1.00	<5%
Potassium Iodide	7681-11-0				<5%

Section 4. First Aid Measures

Eye Contact : Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact : Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion : Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation : Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media.: Water, Fog, Alcohol Foam, carbon Dioxide or Dry Chemical

Special Fire and Explosion Remarks.: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special.: Pick up with absorbent vermiculite

Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special.: N/A

Storage and handling.: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment.: Face Shield, Gloves, Synthetic Apron

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls.: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance.....	Clear brown liquid	Evaporation Rate.....	N/A	Water Soluable?	Yes
Odor.....	Characteristic	Upper Flammability Limit (%):	N/A	Volatile Percent	N/A
Odor Threshold	N/A	Lower Flammability Limit (%):	N/A	Partition Coefficient	n-octanol/water: N/A
pH	N/A	Specific Gravity (@20C)	N/A	Auto Ignition Temp.	N/A
Melting Point.....	N/A	Vapor Pressure (mm Hg).....	N/A	Decomposition Temp.....	N/A
Boiling Point.....	N/A	Vapor Density (Air=1)	N/A	Viscosity	N/A
Flash Point (F) TCC.....	N/A	Relative Density	N/A		

Section 10. Stability and reactivity

Special Remarks on Stability.: Stable

Special Remarks on Reactivity.: N/A

Water Reactive.: No

Section 11. Toxicological Information

Routes of Entry.: Inhalation, Skin absorbion, Ingestion

Animal Toxicity.: Iodine: Acute Oral (LD50) 14 mg/kg (Rat) ;Acute Oral (LD50) 22 mg/kg (Mouse); Potassium Iodide: Acute Oral (LDLo) 1862 mg/kg (Rat) Intraperitoneal (LDLo) 1117 mg/kg (Mouse)

Human Toxic Effects .: Target Organs: None

Potential Acute Health Effects .: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects ... Mutagenic

Section 12. Ecological Information

Ecological Information .: N/A

Section 13. Disposal Considerations

Waste Disposal.: Dispose of in accordance with local,state and federal laws.

Section 14. Transport Information

DOT Identification .: Non Hazardous

Section 15. Regulatory Information

State Regulations.: New York Release reporting list: N/A

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Iodine	7553-56-2	No	No	No	No	No	No	No	No	No
Potassium Iodide	7681-11-0	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date : 3/15/2023

Reviewed by : Admin

MSDS Group Id.: 44

Notice: This SDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

While this SDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.