

**Section 1: Identification**

**Product Name** Lugol's Solution (Strong Iodine Solution USP)  
**Commercial Name** Not available.  
**Product Use** Not available  
**Restrictions On Use** Not available  
**Product Code** 30-1547  
**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** Specific target organ toxicity - Repeated exposure, Category 1  
**CFR 1910.1200**  
**Signal Word** WARNING  
**Hazard Statement(s)** Causes skin irritation. Causes eye irritation. Harmful in contact with skin. May cause an allergic skin reaction.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

**Prevention** P260 : Do not breathe dust/fumes/gas/mist/vapours/spray. P264 : Wash exposed and/or contaminated area thoroughly after handling. P270 : Do not eat, drink or smoke when using this product.  
**Response** P314 : Get medical advice/attention if you feel unwell.  
**Storage** Not available  
**Disposal** P501 : Dispose of contents / container by a local waste disposal company according to regional regulations.

**Section 3: Composition/Information on Ingredients**

**Substance/Mixture** Mixture  
**Components** Water, Potassium Iodide, Iodine  
**% By Weight** Water:85%, Potassium Iodide:10%, Iodine:5%  
**CAS#** 7732-18-5, 7681-11-0  
**Molecular Weight** Not applicable.  
**Chemical Formula** Not available.  
**Synonym(s)** Not available

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Water	7732-18-5	85%		
Potassium Iodide	7681-11-0	10%		
Iodine	7553-56-2	5%		

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For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Bring the conscious victim to fresh air.
<b>Skin Contact</b>	Wash with plenty of water and soap.
<b>Eye Contact</b>	Rinse eyes thoroughly with water for at least 15 minutes.
<b>Ingestion</b>	Do not induce vomiting. If large amounts were swallowed give water. Call a poison control center or doctor immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Eye and skin irritation
<b>Delayed</b>	Not available

**Immediate Medical Attention**

Do not give anything by mouth to an unconscious victim. See a doctor. The iodine ion has effects on the thyroid (hyperthyroidism, hypothyroidism, thyroiditis) and can cause iodism.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Use means of extinction the most suited to the surrounding materials.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Hazardous decomposition products are formed in case of fire, mainly hydrogen iodide, potassium oxides and iodine vapors

**Firefighters Special Equipment and Precautions**

Wear self-contained breathing apparatus with full face shield and appropriate protective clothing.

**Section 6: Accidental Release Measures**

For non emergency personnel: Evacuate the area. For emergency personnel: Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product. Environmental precautions: Do not let product enter drains. Methods and material for containment and cleaning up: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Section 7: Handling and Storage**

Handling: Do not ingest. Do not breathe mist or vapors. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Storage: Keep container tightly closed in a cool, dry and well-ventilated dark place. Protect from light.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Iodine 7553-56-2 IDLH 2 ppm CNESST CEILING 0.1 ppm RSST
<b>Engineering Controls</b>	Use mechanical exhaust or laboratory fumehood to avoid exposure.
<b>Personal Protection</b>	Eyes: Wear safety glasses. Skin/body: Wear a lab coat or any other appropriate protective clothing. Respiratory: If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure. Hands: Wear chemical resistant protective gloves

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**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	dark brown liquid.		
<b>Odor</b>	pungent		
<b>Odor Threshold</b>	No information found.		
<b>Melting Point</b>	Not available	<b>pH</b>	Not available
<b>Freezing Point</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Boiling Point/Range</b>	100°C / 212°F	<b>Vapor Density</b>	Not available
<b>Decomposition temperature</b>	No information found.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	No information found.	<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	Not applicable.	<b>Autoignition temperature</b>	No information found.
<b>Flammability</b>	No information found.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	No information found.
		<b>Upper</b>	No information found.
<b>Solubility(ies)</b>	Soluable		
<b>Other</b>			

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization</b>	will not occur.
<b>Conditions to Avoid</b>	Avoid exposure to light.
<b>Incompatible Materials</b>	Strong oxidants, strong reducers, metal powders, ammonia
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products are formed in case of fire, mainly hydrogen iodide, potassium oxides and iodine vapors

**Section 11: Toxicological Information****RTECS** Not available.**Acute Toxicity**

7553-56-2 DL50 Oral : Rat = 14000 mg/kg

**Skin Corrosion/Irritation**

Iodine : Causes skin irritation

**Serious Eye Damage/Irritation**

Iodine : Causes serious eye irritation

**Respiratory or Skin Sensitization**

Not available

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**

Not available

**Reproductive Toxicity**

Not available

**Routes of Entry**

Skin, eyes, inhalation and ingestion

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**Symptoms Related to Exposure**

Not available

**Potential Health Effects**

Iodine : May cause respiratory irritation Potassium Iodide : Causes damage to organs through prolonged or repeated exposure cause the hazard. Iodine : Causes damage to organs through prolonged or repeated exposure cause the hazard. (Thyroid)

**Target Organ(s)** Not available**Section 12: Ecological Information****Ecotoxicity**

Potassium Iodide 7681-11-0: CL50 - Oncorhynchus mykiss (rainbow trout) 3200 mg/L - 120h CE50 - Daphnia magna 7.5 mg/L - 24h Iodine 7553-56-2 CE50 - Daphnia magna 0.55 mg/L - 48h CL50 - Oncorhynchus mykiss (rainbow trout) 1.67 mg/L - 96h

**Persistence and Degradability**

No information found.

**Bioaccumulative Potential**

No information found.

**Mobility in Soil**

No information found.

**Other Adverse Effects**

No information found.

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of the chemical waste is in conformity with the federal, provincial and local laws. store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste. See the internal dangerous chemical waste management procedures.

**Disposal of Container**

No information found.

**Other Considerations**

No information found.

**Section 14: Transport Information****DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

**Section 15: Regulatory Information****Regulations**

Not available.

**Other**

Not available.

**Section 16: Other Information**

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**Users Responsibility:** A bulletin such as this cannot be expected to cover all possible individual situations. The user has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if and where, precautions are required. All health hazard and safety information herein should be passed on to your customers and employees.

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