

# Safety Data Sheet

Lugol's Iodine, Concentrate

Revision Date: 1/1/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier Trade name: Lugol's Iodine Concentrate  
Product code(s): 400353, 400354, 400355, 400357,  
400359

1.2 Relevant Identified uses Laboratory Reagent

Supplier: EDM 3, LLC  
3611 St Johns Bluff Road, Suite 1  
Jacksonville, FL 32224  
800-638-2625  
Monday-Friday: 8:00 -5:00 PM

Synonym: None.  
Material uses: Laboratory Reagent.  
Validation date: 1/1/2020

In case of a medical emergency or a spill, call: INFOTRAC at 1-800-535-5053 (Domestic within the USA and Canada) or 1-352-323-3500 (International callers may call collect), 24 hours/day, 7 days/week.

## 2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Label Elements: Pictogram



Signal Word: Warning!

Hazard statement(s):

H315: Causes skin irritation  
H317: May cause an allergic skin reaction  
H319: Causes serious eye irritation  
H401: Toxic to aquatic life

Precautionary statement(s):

P264: Wash exposed skin thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P280: Wear protective gloves/ eye protection/ face protection.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

NFPA Rating	HMIS Classification
Health hazard: 2	Health hazard: 2
Fire: 0	Flammability: 0
Reactivity Hazard: 0	Physical hazards: 0

Potential Health Effects :  
irritation.

Inhalation – May cause respiratory tract  
Skin - May cause skin irritation.  
Eyes - May cause eye irritation.  
Ingestion – Potentially toxic if swallowed in large quantities.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Potassium Iodide	7681-11-0	10
Iodine	7553-56-2	5
Water	7732-18-5	Balance

### 4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: 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.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Symptoms/effects after inhalation: May cause an allergic skin reaction

Symptoms/effects after skin contact: Causes skin irritation

Symptoms/effects after eye contact: Causes serious eye irritation

### 5. FIREFIGHTING MEASURES

Flammability of the product: non flammable

Extinguishing media: Use suitable media for surrounding materials. Use water fog, avoid direct stream.

Special exposure hazards: Avoid contact with strong oxidizers

Hazardous thermal decomposition products: Decomposition products: carbon dioxide, carbon monoxide

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment for surroundings.

Explosion hazards: Not-applicable

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.

Emergency procedures: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.

Incompatible products: Strong oxidizers. Strong reducing agents. Strong bases.

Incompatible materials: Sources of ignition. Direct sunlight

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Component	Source	Type	Value	Note
Iodine	ACGIH	TWA	0.1 mg/m <sup>3</sup>	
	ACGIH	TWA	0.01 ppm	
	OSHA	PEL (ceiling)	1 mg/m <sup>3</sup>	
	OSHA	PEL (ceiling)	0.1 ppm	
	IDLH	US IDLH	2 ppm	
	NIOSH	REL	1 mg/m <sup>3</sup>	
	NIOSH	REL	0.1 ppm	
Potassium Iodide	ACGIH	TWA	0.01 ppm	Inhalable fraction

## 8.2. Exposure controls

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.  
Provide adequate general and local exhaust ventilation

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	Color:	Amber
Flash Point:	NA	Odor:	Characteristic
pH:	NA	Boiling/condensation point:	NA
Melting/freezing point:	NA	Relative density:	NA
Vapor pressure:	NA	Vapor density:	NA
Odor threshold:	NA	Evaporation rate:	NA
VOC:	NA	Solubility:	Soluble in the following

materials: water

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No further relevant information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct Sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Metals, strong reducing agents, ammonia, strong bases

### 10.6. Hazardous decomposition products

Iodine vapor, potassium oxide

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Iodine (7553-56-3)

LD50 Oral Rat 14000 mg/kg

ATE US (oral) 14000 mg/kg body weight

ATE US (dermal) 220 mg/kg body weight

Skin Corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitization

May cause an allergic skin reaction

Germ cell mutagenicity

No data available

## 12. ECOLOGICAL INFORMATION

Toxicity:

Iodine, Lugol's

EC50 Daphnia 1

4 mg/l

Persistence and degradability: no data available  
Bioaccumulative potential: no data available  
Mobility in soil: no data available  
PBT and vPvB assessment: no data available  
Other adverse effects: no data available

### 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

DOT (US)  
Not Regulated

### 15. REGULATORY INFORMATION

#### 15.1 US Federal Regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Iodine (7553-56-2): SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard and Delayed (Chronic) health hazard

Potassium Iodide (7681-11-0): SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard and Delayed (Chronic) health hazard

#### 15.2 International regulations

Iodine (7553-56-2) and Potassium Iodide (7681-11-0)  
Listed on the Canadians DSL (Domestic Substances List)

#### 15.3 US State Regulations

California Proposition 65- This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### 16. OTHER INFORMATION

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



#### Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling 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 EDM3 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.