

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/16/2013 Revision date: 3/29/2022 Supersedes: 11/1/2017 Version: 1.3

SECTION 1: Identification

SECTION 1: Identification	
1.1. Identification	
Product form Product name Product code	: Mixtures : Iodine, Lugol's, 5% w/v : LC15675
1.2. Recommended use and restrictions of	on use
Use of the substance/mixture Recommended use Restrictions on use	 For laboratory and manufacturing use only. Laboratory chemicals Not for food, drug or household use
1.3. Supplier	
LabChem, Inc. 1010 Jackson's Pointe Ct. Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or +1-703-741-5970
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture
GHS US classification	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitization, Category 1 Full text of H statements : see section 16	H315Causes skin irritationH319Causes serious eye irritationH317May cause an allergic skin reaction
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Warning H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation
Precautionary statements (GHS US)	 P261 - Avoid breathing mist, vapors, spray. P264 - Wash exposed skin thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
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P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to comply with local, state and federal regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	CAS-No.: 7732-18-5	85	Not classified
Potassium Iodide	CAS-No.: 7681-11-0	10	Aquatic Acute 2, H401
lodine	CAS-No.: 7553-56-2	5	Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice	
First-aid measures after inhalation	(show the label where possible).Allow affected person to breathe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effects (acute and delayed)		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
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.	

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance. Treat symptomatically.

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SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing r	nedia		
5 5	Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemic	al de la constant de		
Fire hazard : Explosion hazard :	Not flammable. Not applicable.		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.		
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measure	S		
6.1. Personal precautions, protective equipment and emergency procedures			

6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Gloves.
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.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 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. Avoid breathing mist, vapors, spray. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including a	any incompatibilities
Storage conditions Incompatible products Incompatible materials	 Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use. Strong reducing agents. Ammonia. Acetaldehyde. metals. Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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SECTION 8: Exposure controls/personal protection 8.1. Control parameters No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation. 8.3. Individual protection measures/Personal protective equipment Personal protective equipment: Gloves. Protective clothing. Safety glasses. Hand protection: Wear protective gloves. Eye protection: Chemical goggles or safety glasses Skin and body protection: Wear suitable protective clothing **Respiratory protection:** Respiratory protection not required in normal conditions

Personal protective equipment symbol(s):



Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: amber
Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Miscible with water.
Log Pow	: No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional 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

lodine vapor. Potassium oxide.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) · Not classified Acute toxicity (inhalation) Not classified · lodine, Lugol's, 5% w/v LD50 oral rat 4400 mg/kg ATE US (oral) 4400 mg/kg body weight lodine (7553-56-2) LD50 oral rat 14000 mg/kg ATE US (oral) 14000 mg/kg body weight ATE US (dermal) 220 mg/kg body weight ATE US (dust, mist) 1.5 mg/l/4h

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Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Ingestion. Inhalation. Skin and eye contact.
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
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.

SECTION 12: Ecological information

12.1. Toxicity			
Ecology - water :	Toxic to aquatic life.		
lodine, Lugol's, 5% w/v			
EC50 Daphnia 1	4 mg/l		
lodine (7553-56-2)	lodine (7553-56-2)		
LC50 fish 1	1.7 mg/l		
EC50 Daphnia 1	0.2 mg/l		
Potassium Iodide (7681-11-0)			
LC50 fish 1	3200 mg/l 120 h; Onchorhynchus mykiss		
12.2. Persistence and degradability			
lodine, Lugol's, 5% w/v			
Persistence and degradability	Not established.		
lodine (7553-56-2)			
Persistence and degradability	Not established.		
Potassium Iodide (7681-11-0)			
Persistence and degradability	Not established.		
Water (7732-18-5)			
Persistence and degradability	Not established.		

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12.3. Bioaccumulative potential	
Iodine, Lugol's, 5% w/v	
Bioaccumulative potential	Not established.
lodine (7553-56-2)	
Log Pow	2.49
Bioaccumulative potential	Not established.
Potassium Iodide (7681-11-0)	
Log Pow	0.04
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	

No additional information available

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste disposal recommendations Ecology - waste materials	Dispose of contents/container to comply with local, state and federal regulations.Avoid release to the environment.	

SECTION 14: Transport information		
14.1. UN number		
Not regulated for transport		
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Not applicable	
14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: Not applicable	
14.4. Packing group		
Packing group (DOT)	: Not applicable	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT No data available		

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Inding ((7553-56-2)
ioune (1333-30-2

SARA Section 311/312 Hazard Classes Immediate	
	e (acute) health hazard chronic) health hazard

15.2. International regulations

CANADA

lodine (7553-56-2)

Listed on the Canadian DSL (Domestic Substances List)

Potassium Iodide (7681-11-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Water (7732-18-5)	

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

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

SECTION 16: Other information

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Full text of H- and EUH-statements: see section 16		
H311	Toxic in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H317 May cause an allergic skin reaction		

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Full text of H- and EUH-statements: see section 16			
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H400	Very toxic to aquatic life		
H401	Toxic to aquatic life		
NFPA health haza	ard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard		 O - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. 	
NFPA reactivity		: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating			
Health		: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability		: 0 Minimal Hazard - Materials that will not burn	
Physical		 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. 	
Personal protection		: B - Safety glasses, Gloves	

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