

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/16/2013 Version: 1.0

.1. Product identifier	
Product form	: Mixture
Product name	: Iodine, D'Antoni
Product code	: LC15674
	stance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the safety	r data sheet
LabChem Inc Jackson's Pointe Commerce Park Building 1000 Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	ວ, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	
2.1. Classification of the substance or I	mixture
GHS-US classification	
Skin Irrit. 2H315Eye Irrit. 2AH319Skin Sens. 1H317Aquatic Acute 3H402	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS07
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 H402 - Harmful to aquatic life
o ()	: H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation
Hazard statements (GHS-US) Precautionary statements (GHS-US)	 H315 - Causes skin irritation H317 - May cause an allergic skin reaction H317 - May causes an allergic skin reaction H319 - Causes serious eye irritation H402 - Harmful to aquatic life P261 - Avoid breathing mist, vapours, spray P264 - Wash exposed skin thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace P273 - Avoid release to the environment 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 P337+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse
Hazard statements (GHS-US) Precautionary statements (GHS-US)	 H315 - Causes skin irritation H317 - May cause an allergic skin reaction H317 - May causes an allergic skin reaction H319 - Causes serious eye irritation H402 - Harmful to aquatic life P261 - Avoid breathing mist, vapours, spray P264 - Wash exposed skin thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace P273 - Avoid release to the environment 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 P337+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	95.5	Not classified
Potassium Iodide	(CAS No) 7681-11-0	3	Eye Irrit. 2B, H320
lodine	(CAS No) 7553-56-2	1.5	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

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 (show the label where possible).		
First-aid measures after inhalation	: Assure fresh air breathing. 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. Call a POISON CENTER/doctor/physician if you feel unwell. 		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.		
Symptoms/injuries after skin contact	: Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.		
4.3. Indication of any immediate medical a	attention and special treatment needed		
Obtain medical assistance.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the subs	stance or mixture		
Fire hazard	: Not flammable.		
Explosion hazard	: Not applicable.		
5.3. Advice for firefighters			
Firefighting instructions	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. 		
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
	: Safety glasses. Gloves.		
Emergency procedures	Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection.		
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Protective equipment	: Equip cleanup crew with proper protection
Emergency procedures	: Ventilate area.

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6.2. Environmental precautio	ns
Prevent entry to sewers and public w	aters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for	r 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 section	ons
See Heading 8. Exposure controls a	nd personal protection.
SECTION 7: Handling and s	torage
7.1. Precautions for safe han	dling
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 vapour. Avoid breathing mist, vapours, spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. 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 stora	ge, including any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong reducing agents. Ammonia. Acetaldehyde. metals. Strong bases.
Incompatible products	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

lodine (7553-56-2)		
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m ³ Inhalable fraction
USA ACGIH	ACGIH TWA (ppm)	0.01 ppm Inhalable fraction
USA ACGIH	ACGIH STEL (mg/m ³)	1 mg/m³
USA ACGIH	ACGIH STEL (ppm)	0.1 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1 mg/m³
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.1 ppm

USA ACGIH	ACGIH TWA (ppm)	0.01 ppm Inhalable fraction
8.2. Exposure controls		
Appropriate engineering controls		d safety showers should be available in the immediate vicinit adequate general and local exhaust ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasse	S.
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: Wear appropriate mask.	
Other information	: Do not eat, drink or smoke during	JSE.

9.1.	Information on basic physical and c	chemical properties
Physic	al state	: Liquid
Colour		: amber.
Odour		: characteristic.
Odour	threshold	: No data available
pН		: No data available

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Miscible with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: No data available.
Explosive limits	: No data available

Other information 9.2.

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 temperatur	es.		
10.5. Incompatible materials			
metals. Strong reducing agents. Ammonia. Strong bases.			
10.6. Hazardous decomposition products			
lodine vapour. Potassium oxide. Hydrogen chloride.			
SECTION 11: Toxicological informat	ion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
lodine, D'Antoni			
LD50 oral rat	14667 mg/kg		
lodine (7553-56-2)			
LD50 oral rat	14000 mg/kg		
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LD50 oral rat	14000 mg/kg
LD50 dermal rat	220 mg/kg
ATE (dermal)	1100.000 mg/kg bodyweight
ATE (dust,mist)	1.500 mg/l/4h
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.

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Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

COTION 40. Eacle sized information	
SECTION 12: Ecological information	
12.1. Toxicity	The second s
Ecology - water	: Toxic to aquatic life.
lodine, D'Antoni	
EC50 Daphnia 1	13.3 mg/l
lodine (7553-56-2)	
LC50 fishes 1	1.7 mg/l
EC50 Daphnia 1	0.2 mg/l
Potassium Iodide (7681-11-0)	
LC50 fishes 1	3200 mg/l 120 h
EC50 Daphnia 1	2.7 mg/l 24 h
12.2. Persistence and degradability	
Iodine, D'Antoni	
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.
2.3. Bioaccumulative potential	
Iodine, D'Antoni	
Bioaccumulative potential	Not established.
lodine (7553-56-2)	
Log Pow	2.49
Bioaccumulative potential	Not established.
Potassium lodide (7681-11-0)	
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	pns
3.1. Waste treatment methods	
Vaste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Ecology - waste materials	: Avoid release to the environment.
Looogy - waste materials	
SECTION 14: Transport information	n .
n accordance with DOT	
No dangerous good in sense of transport regul	lations
Additional information	
Other information	: No supplementary information available.
ADR	
Fransport document description	:
Fransport by soc	
Fransport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	on
15.1. US Federal regulations	
Iodine (7553-56-2)	potonogo Control Act) invontory
Listed on the United States TSCA (Toxic Sub SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 311/312 Mazaru Classes	Delayed (chronic) health hazard
Potossium Indido (7691 11 0)	
Potassium Iodide (7681-11-0) Listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory
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5.2. International regulations	
CANADA	
lodine, D'Antoni	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
lodine (7553-56-2)	
Listed on the Canadian DSL (Domestic Susta	ances List) inventory
WHMIS Classification	Class E - Corrosive Material
	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Potassium Iodide (7681-11-0)	
Listed on the Canadian DSL (Domestic Susta	ances List) inventory.
*	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
WHMIS Classification	
WHMIS Classification Water (7732-18-5) WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

lodine (7553-56-2)		
Listed on the Canadian Ingredient Disclosure List		
Potassium Iodide (7681-11-0)		
Listed on the Canadian Ingredient Disclosure List		

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

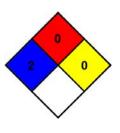
Full text of H-phrases: see section 16:

lext of fi-philases. see section 10.		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1	
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Sensitisation — Skin, category 1	
Skin Sens. 1B	Sensitisation — Skin, category 1B	
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	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H320	Causes eye irritation	
H332	Harmful if inhaled	
H400	Very toxic to aquatic life	
H402	Harmful to aquatic life	

NFPA health hazard

NFPA fire hazard NFPA reactivity : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012)

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