

Iodine, 0.2N (0.1M) Safety Data Sheet

through

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

	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Iodine, 0.2N (0.1M)
Product code	: LC15662
1.2. Relevant identified uses of	f the substance 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	he safety data sheet
LabChem Inc Jackson's Pointe Commerce Park Buil Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.cc	lding 1000, 1010 Jackson's Pointe Court om
1.4. Emergency telephone num	nber
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identifie	
2.1. Classification of the subst	ance or mixture
Skin Sens. 1 H317 Aquatic Acute 2 H401 2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS07
Signal word (CLIC, LC)	
Signal word (GHS-US)	: Warning
Signal word (GHS-US) Hazard statements (GHS-US)	 Wanning H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H401 - Toxic to aquatic life

- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
 - P337+P313 If eye irritation persists: Get medical advice/attention
 - P362+P364 Take off contaminated clothing and wash it before reuse
 - P501 Dispose of contents/container to comply with local, state and federal regulations

No data available

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

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	92.36	Not classified
Potassium lodide	(CAS No) 7681-11-0	5.08	Eye Irrit. 2B, H320
lodine	(CAS No) 7553-56-2	2.54	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
Hydrochloric Acid, 37% w/w	(CAS No) 7647-01-0	0.02	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
SECTION 4: First aid measures			
4.1. Description of first aid measures	5		
First-aid measures general	: Never give anything by mouth to an u (show the label where possible).	nconscious person.	f you feel unwell, seek medical advice
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. Nor rash occurs: Get medical advice/at		clothing before reuse. If skin irritation
First-aid measures after eye contact	: Rinse cautiously with water for severa do. Continue rinsing. If eye irritation p		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
4.2. Most important symptoms and e	ffects, 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.		
4.3. Indication of any immediate med	lical attention and special treatment neede	d	
Obtain medical assistance.			
SECTION 5: Firefighting measure	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. V	later spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	. ,	
5.2. Special hazards arising from the	,		
Fire hazard	: Not flammable.		
Explosion hazard	: Not applicable.		
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray or fog for cooling exp chemical fire. Avoid (reject) fire-fightin		
Protection during firefighting	: Do not enter fire area without proper p	•	
		· ·	
SECTION 6: Accidental release m			
6.1. Personal precautions, protective	equipment and emergency procedures		

0.1.	reisonal productions, procedure equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Protective	e equipment	: Safety glasses. Gloves.	
Emergen	cy procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protective	e equipment	: Equip cleanup crew with proper protection.	
Emergen	cy procedures	: Ventilate area.	

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

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.	8. Methods and material for containment and cleaning up		
Method	s 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	: 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 storage, 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

Potassium Iodide (7681-11-0)		
USA ACGIH	ACGIH TWA (ppm)	0.01 ppm Inhalable fraction
8.2. Exposure controls		
Appropriate engineering controls		nd safety showers should be available in the immediate vicinit e adequate general and local exhaust ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glass	es.
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: Wear appropriate mask.	
Other information	: Do not eat, drink or smoke during	use.

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: amber.	
Odour	: characteristic.	
Odour threshold	: No data available	
рН	: No data available	

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

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

9.2. **Other information**

No additional information available

SECTION 10: Stat	oility and reactivity		
10.1. Reactivity	. Reactivity		
No additional information	n available		
10.2. Chemical sta	bility		
Stable under normal co	nditions.		
10.3. Possibility of	hazardous reactions		
Not established.			
10.4. Conditions to	avoid		
Direct sunlight. Extreme	ly high or low temperatures.		
10.5. Incompatible	materials		
metals. Strong reducing	agents. Ammonia. Strong bases.		
10.6. Hazardous d	10.6. Hazardous decomposition products		
lodine vapour. Potassium oxide. Hydrogen chloride.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity : Not classified		ssified	
lodine, 0.2N (0.1M)	lodine, 0.2N (0.1M)		
LD50 oral rat 8666 mg/kg		ng/kg	

LD50 oral rat	8666 mg/kg	
lodine (7553-56-2)		
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	
Hydrochloric Acid, 37% w/w (7647-01-0)		
LD50 oral rat	700 mg/kg	

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

5010 mg/kg
: Causes skin irritation.
: Causes serious eye irritation.
: May cause an allergic skin reaction.
: Not classified
: Not classified
3 - Not classifiable
: Not classified
: Based on available data, the classification criteria are not met.
: May cause an allergic skin reaction.
: Causes skin irritation.
: Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity		
Ecology - water	: Toxic to aquatic life.	
lodine, 0.2N (0.1M)		
EC50 Daphnia 1	7.88 mg/l	
lodine (7553-56-2)		
LC50 fishes 1	1.7 mg/l	
EC50 Daphnia 1	0.2 mg/l	
Potassium lodide (7681-11-0)		
LC50 fishes 1	3200 mg/l 120 h	
EC50 Daphnia 1	2.7 mg/l 24 h	
Hydrochloric Acid, 37% w/w (7647-01-0)		
LC50 fishes 1	282 mg/l (96 h; Gambusia affinis; Pure substance)	
EC50 Daphnia 1	< 56 mg/l (72 h; Daphnia magna; Pure substance)	
LC50 fish 2	862 mg/l (Leuciscus idus; Pure substance)	
TLM fish 1	282 ppm (96 h; Gambusia affinis; Pure substance)	
2.2. Persistence and degradability		
lodine, 0.2N (0.1M)		
Persistence and degradability	Not established.	
lodine (7553-56-2)		
Persistence and degradability	Not established.	
Potassium lodide (7681-11-0)		
Persistence and degradability	Not established.	
Water (7732-18-5)		
Persistence and degradability Not established.		
Hydrochloric Acid, 37% w/w (7647-01-0)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components of the mixture available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD) Not applicable		
2/16/2013	EN (English) 5.	

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

Natapplicable
Not applicable Not applicable
Not applicable
Netesteliebed
Not established.
2.49
Not established.
Not established.
Not established.
0.25 (QSAR)
Low potential for bioaccumulation (Log Kow < 4).
May be harmful to plant growth, blooming and fruit formation.
. Avoid release to the environment
: Avoid release to the environment.
ns
: Dispose in a safe manner in accordance with local/national regulations. Dispose of
contents/container to comply with local, state and federal regulations. : Avoid release to the environment.
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tions No supplementary information available.

Safety Data Sheet

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

Water (7732-18-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
Hydrochloric Acid, 37% w/w (7647-01-0)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			

15.2. International regulations

CANADA

lodine, 0.2N (0.1M)			
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
lodine (7553-56-2)			
Listed on the Canadian DSL (Domestic Sustances 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 Sustand	ces List) inventory.		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Water (7732-18-5)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria		
Hydrochloric Acid, 37% w/w (7647-01-0)			
Listed on the Canadian DSL (Domestic Sustances List) inventory.			
WHMIS Classification	Class E - Corrosive Material		

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	
Hydrochloric Acid, 37% w/w (7647-01-0)	
Listed on the Canadian Ingredient Disclosure List	

15.3. US State regulations

No additional information available

SECTION 16: Other information	
Other information	: None.

Safety Data Sheet

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

Full text of H-phrases: see section 16:

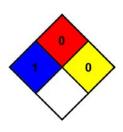
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Acute 2	Hazardous to the aquatic environment — AcuteHazard, Category 2
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. 1B	Skin corrosion/irritation, Category 1B
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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
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
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life

NFPA health hazard

NFPA fire hazard NFPA reactivity : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

: 0 - Materials that will not burn.

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



HMIS III Rating

Health	:	1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	:	0 Minimal Hazard
Physical	:	0 Minimal Hazard
Personal Protection	:	В

SDS US (GHS HazCom 2012)

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