

Manufacturer of Laboratory Chemical & Pharmaceutical Materials

## **Grams Iodine Solution**

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Neutron<sup>®</sup>Pharmachemical Co. Date of issue: 12/16/2013 Version: 1.0

SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Grams lodine Solution
Product code	: 1.6090
1.2. Relevant identified uses of the s	ubstance 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 safe NEUTRON PHARMACHEMICAL CO	ety data sheet
98, 9th Floor, Borjsaz Building, Azadi Ave, T T 021-66906732-3 - F 021-66581408	Fehran, Iran.
info@neutronco.com www.neutronco.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1 25
<b>SECTION 2: Hazards identification</b>	n
2.1. Classification of the substance of	
Classification (GHS-US)	
Aquatic Acute 3 H402	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard statements (GHS-US)	: H402 - Harmful to aquatic life
Precautionary statements (GHS-US)	: P273 - Avoid release to the environment
	P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None.
2.4. Unknown acute toxicity (GHS-US	5)
Not applicable	
SECTION 3: Composition/informa	tion on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	

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Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	99.02	Not classified
Potassium Iodide	(CAS No) 7681-11-0	0.64	Eye Irrit. 2B, H320
lodine	(CAS No) 7553-56-2	0.32	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

### Full text of H-phrases: see section 16

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       : Allow victim to breathe fresh air. Allow the victim to rest.         First-aid measures after skin contact       : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.         First-aid measures after eye contact       : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.         First-aid measures after ingestion       : Rinse immediately with plenty of water. Obtain medical attention.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries       : Not expected to present a significant hazard under anticipated conditions of normal use.         4.3.       Indication of any immediate medical attention and special treatment needed         Obtain medical assistance.       SECTION 5: Firefighting media         Suitable extinguishing media       : Do not use a heavy water stream.         5.2.       Special hazards arising from the substance or mixture         Firefighting instructions       : Not flammable.         Explosion hazard       : Not flammable.         Explosion hazard       : Use water spray of fog for cooling exposed containers. Exercise caution when fighting any ch
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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
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.

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6.4. Reference to other sections	
See Heading 8. Exposure controls and pe	ersonal protection.
SECTION 7: Handling and stora	ige
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.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight., incompatible materials. Keep container closed when not in use.
Incompatible products	: Strong reducing agents. Ammonia. Acetaldehyde. metals.
Incompatible materials	: Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Grams lodine Solution			
ACGIH	Not applicable		
OSHA	Not applicable	Not applicable	
lodine (7553-56-2)			
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Inhalable fraction	
ACGIH	ACGIH TWA (ppm)	0.01 ppm Inhalable fraction	
OSHA	OSHA PEL (Ceiling) (mg/m³)	1 mg/m <sup>3</sup>	
OSHA	OSHA PEL (Ceiling) (ppm)	0.1 ppm	
Potassium lodide (768	31-11-0)		
ACGIH	ACGIH TWA (ppm)	0.01 ppm Inhalable fraction	
OSHA	Not applicable	· · · ·	

Water (7732-18-5)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand and a Ray	
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

ECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: amber	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	

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ccording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	<ul> <li>Miscible with water.</li> <li>Water: Solubility in water of component(s) of the mixture :</li> <li>Potassium lodide: 145 g/100ml</li> <li>Hydrochloric Acid, 37% w/w:</li> </ul>	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: Not applicable.	
Oxidizing properties	: No data available.	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		
<b>SECTION 10: Stability and reactivity</b>		
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.		
10.6. Hazardous decomposition products		
lodine vapor. Potassium oxide.		
<b>SECTION 11: Toxicological informati</b>	on	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
lodine (7553-56-2)		

lodine (7553-56-2)	
LD50 oral rat	14000 mg/kg
ATE US (oral)	14000.000 mg/kg body weight
ATE US (dermal)	220.000 mg/kg body weight
ATE US (dust, mist)	1.500 mg/l/4h
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight
Hydrochloric Acid, 37% w/w (7647-01-0)	
LD50 oral rat	700 mg/kg
11/00/0011	

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Hydrochloric Acid, 37% w/w (7647-01-0)	
LD50 dermal rabbit	5010 mg/kg
ATE US (oral)	700.000 mg/kg body weight
ATE US (dermal)	5010.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified

Hydrochloric Acid, 37% w/w (7647-01-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Harmful to aquatic life.
Grams lodine Solution	
EC50 Daphnia 1	63.09 mg/l
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
EC50 Daphnia 1	2.7 mg/l 24 h
Hydrochloric Acid, 37% w/w (7647-01-0)	
LC50 fish 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)
12.2. Persistence and degradability	
Grams lodine Solution	
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 available.
Biochemical oxygen demand (BOD)	Not applicable

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Hydrochloric Acid, 37% w/w (7647-01-0	)
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Grams lodine Solution	
Bioaccumulative potential	Not established.
lodine (7553-56-2)	
Log Pow	2.49
Bioaccumulative potential	Not established.
Potassium Iodide (7681-11-0)	
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
Hydrochloric Acid, 37% w/w (7647-01-0	
Log Pow	0.25 (QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Hydrochloric Acid, 37% w/w (7647-01-0)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
12.5. Other adverse effects	
Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerations	

SECTION 13: Disposal considerations	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	

Not regulated for transport		
Additional information		
Other information	: No supplementary information available.	

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

SECTION 15: Regulatory information	
15.1. US Federal regulations	
lodine (7553-56-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

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Potassium lodide (7681-11-0)		
Listed on the United States TSCA (Toxic Substa	nces 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 Substa	nces Control Act) inventory	
Hydrochloric Acid, 37% w/w (7647-01-0)		
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's	5000 lb	
List of Lists)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
15.2. International regulations		
CANADA		
Grams Iodine Solution	Lincontrolled product according to WHMIS classification aritoria	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
lodine (7553-56-2)		
Listed on the Canadian DSL (Domestic Sustance		
WHMIS Classification	Class E - Corrosive Material	
WINNO Classification	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 lodide (7681-11-0)		
Listed on the Canadian DSL (Domestic Sustance	es List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Sustance	es List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Hydrochloric Acid, 37% w/w (7647-01-0)		
Listed on the Canadian DSL (Domestic Sustance	es List)	
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/EE	C [DSD] or 1999/45/EC [DPD]	
Not classified		
15.2.2. National regulations		
lodine (7553-56-2)		
Listed on the Canadian IDL (Ingredient Disclosur	re List)	
Potassium lodide (7681-11-0)		
· · ·	Listed on the Canadian IDL (Ingredient Disclosure List)	
Listed on the Canadian IDL (Ingredient Disclosur		
Listed on the Canadian IDL (Ingredient Disclosur Water (7732-18-5)	•	
Listed on the Canadian IDL (Ingredient Disclosur	·	
Listed on the Canadian IDL (Ingredient Disclosur Water (7732-18-5)	•	
Listed on the Canadian IDL (Ingredient Disclosur Water (7732-18-5) Not listed on the Canadian IDL (Ingredient Disclo	osure List)	

15.3. US State regulations

<b>SECTION 16: Other inform</b>	ation	
Indication of changes Other information	: Revision - See : *. : None.	
11/26/2014	EN (English US)	7/8

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### Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
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 Sens. 1B	Skin sensitization Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H402	Harmful to aquatic life

### NFPA health hazard

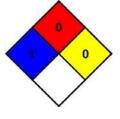
NFPA fire hazard

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	: B

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.