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## **Safety Data Sheet**

## according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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#### 1 Identification

· Product identifier

· Trade name: <u>lodine, Gram's</u> · Product code: IO5200SS

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331 USA

Tel +1 (717)632-1291

Toll-Free: (866)632-1291

info@aquaphoenixsci.com

· Distributor:

AquaPhoenix Scientific

860 Gitts Run Road,

Hanover, PA 17331

(717) 632-1291

· Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

#### 2 Hazard(s) identification

#### · Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:







GHS02 GHS07 GHS08

· Signal word:

None.

Danger

· Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

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#### · Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves and eye protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: Alcohol resistant foam or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:			
7732-18-5	Water	39.8%	
7553-56-2		2%	
	♦ Acute Tox. 4, H312; Acute Tox. 4, H332		
	potassium iodide	3.00%	
	♦ STOT RE 1, H372		
64-17-5		55.2%	
	<ul><li>♠ Flam. Liq. 2, H225</li><li>♠ Eye Irrit. 2A, H319</li></ul>		

#### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

#### 4 First-aid measures

- Description of first aid measures
- **General information:** Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation is experienced, consult a doctor.

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#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

#### Most important symptoms and effects, both acute and delayed:

Dizziness

Coughing

Causes serious eye irritation.

Vision disorders.

Breathing difficulty

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Disorientation

• Danger: Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

#### · Indication of any immediate medical attention and special treatment needed:

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

## **5 Fire-fighting measures**

- Extinguishing media
- Suitable extinguishing agents:

Alcohol resistant foam

Carbon dioxide

Gaseous extinguishing agents

Water fog / haze

Water spray

Fire-extinguishing powder

- · For safety reasons unsuitable extinguishing agents: Water stream.
- Special hazards arising from the substance or mixture

Highly flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information:

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

Cool endangered receptacles with water in flooding quantities.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

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Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat

#### Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling
- Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Prevent formation of aerosols.

#### Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

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

#### Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

#### Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

#### Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

#### 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Engineering controls: Provide adequate ventilation.
- Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Laminated film gloves.

Butyl rubber, BR

Neoprene gloves

Fluorocarbon rubber (Viton)

Natural rubber, NR

Sensibilization by the components in the glove materials is possible.

· Not suitable are gloves made of the following materials:

PVA gloves

PVC gloves

Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

## 9 Physical and chemical properties

Appearance:		
Form:	Liquid	
Color:	Violet	
Odor:	Alcohol-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	21-24 °C (69.8-11.2 °F) (Estimated Range)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	

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· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidizing properties:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Other information	No relevant information available.	

## 10 Stability and reactivity

- · **Reactivity:** No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Highly flammable liquid and vapor.

Reacts violently with oxidizing agents.

Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- · Incompatible materials No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

Iodine compounds

## 11 Toxicological information

- Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: None.

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- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eve: Causes serious eve irritation.
- · Sensitization: Based on available data, the classification criteria are not met.

#### IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

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#### · NTP (National Toxicology Program):

None of the ingredients are listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Causes serious eye irritation.
- · Repeated dose toxicity: Possible risk of irreversible effects.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure:

Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

· Aspiration hazard: Based on available data, the classification criteria are not met.

## 12 Ecological information

- ·Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · **Mobility in soil:** No relevant information available.
- · Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

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- · Uncleaned packagings · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent:

Clean area with absorbent material and place in closed container appropriate for storage of flammable waste.

Transport information	
UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1170
UN proper shipping name DOT ADR/RID/ADN, IMDG IATA	Ethanol solutions ETHANOL SOLUTION (ETHYL ALCOHOSOLUTION) ETHANOL SOLUTION
Transport hazard class(es)	
DOT	
MANAGE 1	
Class	3
Label	3
ADR/RID/ADN	
Class	3 (F1)
Label	3
IMDG, IATA	
Class Label	3 3
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Flammable liquids 33 F-E,S-D

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Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

64-17-5 Ethanol

7681-11-0 potassium iodide

7553-56-2 iodine

7732-18-5 Water

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 Ethanol

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 Ethanol

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

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· Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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#### Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

#### Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtel.com