# Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 07, 2019

Revision: March 06, 2019

<ul> <li>Product identi</li> </ul>	fier
· Product code: So	dium Periodate Solution
	use and restriction on use
	use and restriction on use use: Laboratory chemicals
	use: No relevant information available.
Detelle of the	number of the Sefety Date Sheet
· Manufacturer/Si	supplier of the Safety Data Sheet
AquaPhoenix Sci	
860 Gitts Run Ro	
Hanover, PA 173	
Phone: (717)632-	
Toll-Free: (866)6	
info@aquaphoen	IXSCI.COM
· Emergency tele	phone number:
ChemTel Inc.	
(800)255-3924 ( +1 (813)248-058	
+1 (013)240-030	
Hazard(s) ide	ntification
Classification	of the substance or mixture
$C_{I_{IIII}}$ $C_{I_{IIII}}$ $C_{I_{IIII}}$ $C_{I_{IIII}}$ $C_{I_{IIIII}}$ $C_{I_{IIIII}}$ $C_{I_{IIIIIII}}$ $C_{I_{IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	
	5 Causes skin irritation.
Eye Irrit. 2A H31	9 Causes serious eye irritation.
Eye Irrit. 2A H31	
Eye Irrit. 2A H31 STOT RE 1 H37	<ul> <li>9 Causes serious eye irritation.</li> <li>2 Causes damage to the thyroid through prolonged or repeated exposure.</li> </ul>
Eye Irrit. 2A H31 STOT RE 1 H37 • Label elements	<ul> <li>9 Causes serious eye irritation.</li> <li>2 Causes damage to the thyroid through prolonged or repeated exposure.</li> <li>s</li> </ul>
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acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 07, 2019

Revision: March 06, 2019

Trade name: Sodium I	Periodate Solution
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(Cont'd. of page 1)

D044	
P314	Get medical advice/attention if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.

#### · Chemical characterization: Mixtures

#### · Components:

7732-18-5	Water		99%
7790-28-5	sodium periodate	<ul> <li>Ox. Sol. 1, H271</li> <li>STOT RE 1, H372</li> <li>Skin Corr. 1C, H314; Eye Dam. 1, H318</li> </ul>	1%

#### · 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: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately rinse with water.

Remove any clothing soiled by the product, wash affected area with soap and water; launder affected clothing before re-using. Contact a physician if irritation persists.

- · 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:
- Causes eye irritation.
- Causes skin irritation.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Breathing difficulty

• **Danger:** Causes damage to the thyroid through prolonged or repeated exposure.

- $\cdot$  Indication of any immediate medical attention and special treatment needed:
- If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

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

Printing date: March 07, 2019

Revision: March 06, 2019

Trade name: Sodium Periodate Solution

(Cont'd. of page 2)

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Substance/product is oxidizing when dry.

Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

#### 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

For large spills, wear protective clothing.

- Environmental precautions Do not allow undiluted product or large quantities of it to reach ground water, 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). Substance/product is oxidizing when dry.

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:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

- Prevent formation of aerosols.
- Information about protection against explosions and fires: Substance/product is oxidizing when dry.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:
- Avoid storage near extreme heat. No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
   Do not store together with acids.
   Store away from flammable substances.
   Further information about storage conditions:
- Keep containers tightly sealed. Prevent from drying out.

(Cont'd. on page 4)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 07, 2019

Revision: March 06, 2019

Trade name: Sodium Periodate Solution

(Cont'd. of page 3)

· 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. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:



Protective gloves

Material of gloves

Butyl rubber, BR Fluorocarbon rubber (Viton) Natural rubber, NR Neoprene gloves Nitrile rubber, NBR Sensibilization by the components in the glove materials is possible. • **Penetration time of glove material** 

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· 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 relevant information available.

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · Appearance: Form:

Color:

Liquid Clear

(Cont'd. on page 5)

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

Printing date: March 07, 2019

Revision: March 06, 2019

#### Trade name: Sodium Periodate Solution

		(Cont'd. of page
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
<ul> <li>Melting point/Melting range:</li> </ul>	0 °C (32 °F)	
<ul> <li>Boiling point/Boiling range:</li> </ul>	100-105 °C (212-221 °F)	
· Flash point:	The product is not flammable.	
$\cdot$ Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
<ul> <li>Oxidizing properties:</li> </ul>	Substance/product is oxidizing when dry.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Soluble.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
<ul> <li>Other information</li> </ul>	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. Do not allow to dry out
- **Possibility of hazardous reactions** Contact with acids releases toxic gases. Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids and alkali.
- Conditions to avoid Excessive heat.
- **Incompatible materials** Strong acids

(Cont'd. on page 6)

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

Printing date: March 07, 2019

Revision: March 06, 2019

Trade name: Sodium Periodate Solution

(Cont'd. of page 5)

Acids. Flammable materials.

• Hazardous decomposition products Oxygen Under fire conditions only: 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.
- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Causes eye irritation.
- · Sensitization: Based on available data, the classification criteria are not met.

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

None of the ingredients are listed.

#### • 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.

Eye contact.

Skin contact.

- Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes and skin.
- Repeated dose toxicity: Causes damage to the thyroid through prolonged or repeated exposure.
- · 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.
- Aspiration hazard: Based on available data, the classification criteria are not met.

# 12 Ecological information

· Toxi	city
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# Aquatic toxicity

#### 7790-28-5 sodium periodate

LC50 >0.17 mg/l (Oncorhynchus mykiss)

EC50 1.1 mg/l (Pseudokirchneriella subcapitata)

0.18 mg/l (daphnia)

· Persistence and degradability No relevant information available.

(Cont'd. on page 7)

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

Printing date: March 07, 2019

Revision: March 06, 2019

Trade name: Sodium Periodate Solution

(Cont'd. of page 6)

- Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.

· Additional ecological information

- General notes: The material is harmful to the environment.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 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.

- · Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
<ul> <li>· UN proper shipping name</li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.
· Transport hazard class(es)	
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.
· Environmental hazards	Not applicable.
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	II of Not applicable.

#### **15 Regulatory information**

 Safety, health and environmental regulations/legislation specific for the substance or mixture
(Cont'd. on page 8)

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

Printing date: March 07, 2019

Revision: March 06, 2019

Trade name: Sodium Periodate Solution

	(Cont'd. of page
United States (USA)	
SARA	
Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
· TSCA (Toxic Substances Control Act)	
All ingredients are listed.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· 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:	
None of the ingredients are listed.	
· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer):	
None of the ingredients are listed.	
· Canadian Domestic Substances List (DSL) (Substances not listed.):	
All 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.

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
PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Ox. Sol. 1: Oxidizing solids – Category 1 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 1

(Cont'd. on page 9)

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

#### Printing date: March 07, 2019

Revision: March 06, 2019

#### Trade name: Sodium Periodate Solution

(Cont'd. of page 8) 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com