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1 Identification
· Product identifier
<ul> <li>Trade name: <u>Hydrogen Peroxide, 30% Solution</u></li> <li>Product code: S25360</li> </ul>
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com</li> <li>Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177</li> </ul>
<ul> <li>Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)</li> </ul>
2 Hazard(s) identification
<ul> <li>Classification of the substance or mixture</li> <li>Ox. Liq. 2 H272 May intensify fire; oxidizer.</li> <li>Acute Tox. 4 H302 Harmful if swallowed.</li> <li>Skin Corr. 1C H314 Causes severe skin burns and eye damage.</li> <li>Eye Dam. 1 H318 Causes serious eye damage.</li> <li>STOT SE 3 H335 May cause respiratory irritation.</li> </ul>
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> <li>GHS03 GHS05 GHS07</li> </ul>
<ul> <li>Signal word: Danger</li> <li>Hazard statements: H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.</li> </ul>

H335 May cause respiratory irritation.

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

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## Trade name: Hydrogen Peroxide, 30% Solution

	(Cont'd. of page 1)
<ul> <li>Precautionary sta</li> </ul>	itements:
P220	Keep/Store away from clothing and other combustible materials
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: Water.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
 • <b>Oth</b> on bonondo <del>-</del>	
	here are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

#### • Chemical characterization: Mixtures

## · Components:

7732-18-5 Water

7722-84-1 hydrogen peroxide

📀 Ox. Liq. 1, H271

Skin Corr. 1A, H314

🔆 Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335

### · 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

## <sup>•</sup> Description of first aid measures

## · After inhalation:

Supply fresh air.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

### • After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

(Cont'd. on page 3)

65%

35%

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

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	(Cont'd. of page
· After eye contact:	
Protect unharmed eye.	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. Then consult a docto	or.
· After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
<ul> <li>Most important symptoms and effects, both acute and delayed: Breathing difficulty</li> </ul>	
Coughing	
Caustic effect on skin and mucous membranes.	
Strong irritant with the danger of severe eye injury.	
Gastric or intestinal disorders when ingested.	
Nausea in case of ingestion.	
May cause respiratory irritation.	
Danger:	
May be harmful if inhaled.	
Harmful if swallowed.	
Indication of any immediate medical attention and special treatment neede	d:
Medical supervision for at least 48 hours.	
If necessary oxygen respiration treatment.	
5 Fire-fighting measures	
· Extinguishing media	
· Suitable extinguishing agents: Water	
For safety reasons unsuitable extinguishing agents: None.	
· Special hazards arising from the substance or mixture May intensify fire; oxi	dizor

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information: Cool endangered receptacles with water spray.

# 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Take any precaution to avoid mixing with combustibles.

Keep away from ignition sources.

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

#### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

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.

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ade name: Hydr	ogen Peroxide, 30% Solution	
See Section 8 fo	other sections r information on safe handling. r information on personal protection equipment. for disposal information.	(Cont'd. of page 3
7 Handling and	l storage	
Keep away from Take any precau Information abo Contact with con		
Provide ventilation Store in a cool to Store only in the Information abore Store away from Do not store toge Further information Store in cool, dry Protect from heat	original receptacle. Dut storage in one common storage facility:	alis.
8 Exposure co	ntrols/personal protection	
Control param Components wi The following or recommended e	neters ith limit values that require monitoring at the workplace: constituent is the only constituent of the product which has xposure limit.	a PEL, TLV or othe
7722-84-1 hydro		
	Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm	
· /	Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm	
. ,	Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm Long-term value: 1 ppm	
EL (Canada)		
EV (Canada)	Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm	

# • Exposure controls

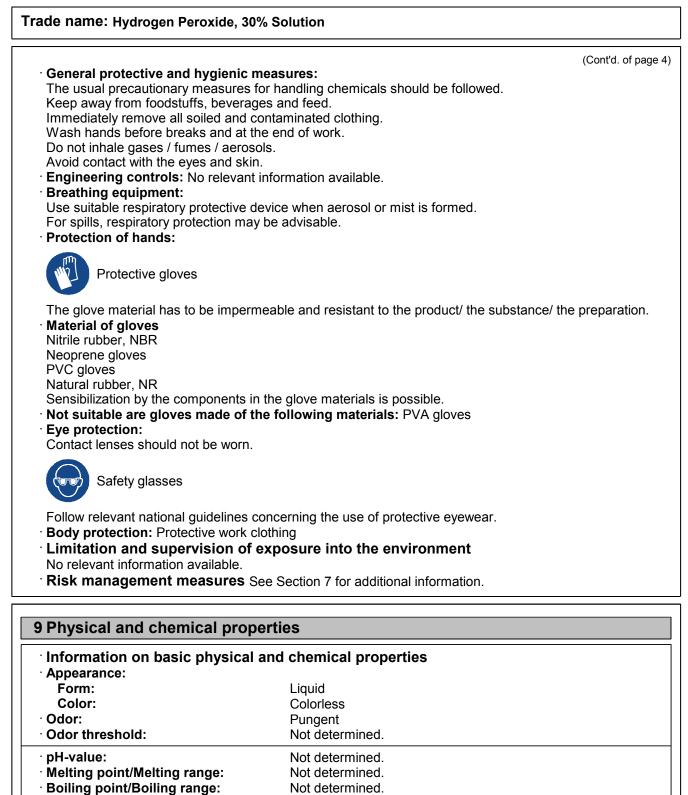
(Cont'd. on page 5)

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# Safety Data Sheet

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

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Not applicable.

· Flash point:

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

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		(Cont'd. of pa
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Oxidizer	
Vapor pressure:	23 hPa (17.3 mm Hg)	
Density:	1.15 g/cm <sup>3</sup> (9.6 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	ter): 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:

## Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

To avoid thermal decomposition, do not overheat.

#### <sup>•</sup> Possibility of hazardous reactions

Reacts spontaneously with alkaline metals.

Acts as an oxidizing agent on organic materials such as wood, paper and fats.

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

#### <sup>•</sup> Conditions to avoid

Keep/Store away from clothing/combustible materials.

Keep away from heat and direct sunlight.

· Incompatible materials No relevant information available.

· Hazardous decomposition products Oxygen

# 11 Toxicological information

<sup>·</sup> Information on toxicological effects

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Trade name: Hydrogen Peroxide, 30% Solution	
Cont <sup>*</sup> Acute toxicity: Harmful if swallowed.	d. of page 6)
LD/LC50 values that are relevant for classification:	
7722-84-1 hydrogen peroxide	
Oral LD50 376 mg/kg (rat)	
Inhalative LC50/4h (rat)	
<ul> <li>Primary irritant effect:</li> <li>On the skin: Caustic effect on skin and mucous membranes.</li> <li>On the eye: Strong irritant with the danger of severe eye injury.</li> <li>Sensitization: No sensitizing effects known.</li> </ul>	
· IARC (International Agency for Research on Cancer):	
7722-84-1 hydrogen peroxide	3
• NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	
<ul> <li>Probable route(s) of exposure: Ingestion. Inhalation.</li> <li>Eye contact.</li> <li>Skin contact.</li> <li>Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage. Harmful if swallowed. Irritating to respiratory system. May be harmful if inhaled.</li> <li>Repeated dose toxicity: No relevant information available.</li> <li>Germ cell mutagenicity: Based on available data, the classification criteria are not met.</li> <li>Carcinogenicity: Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure: May cause respiratory irritation.</li> <li>STOT-repeated exposure: Based on available data, the classification criteria are not met.</li> <li>Aspiration hazard: Based on available data, the classification criteria are not met.</li> </ul>	
12 Ecological information	
<ul> <li>Toxicity</li> <li>Aquatic toxicity The material is harmful to the environment.</li> <li>Persistence and degradability No relevant information available.</li> <li>Bioaccumulative potential: No relevant information available.</li> <li>Mobility in soil: No relevant information available.</li> <li>Ecotoxical effects:</li> <li>Remark: Harmful to fish</li> <li>Additional ecological information</li> <li>General notes:</li> <li>Do not allow undiluted product or large quantities of it to reach ground water, water course of system.</li> </ul>	or sewage

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

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Trade name: Hydrogen Peroxide, 30% Solution

Harmful to aquatic organisms

• Other adverse effects No relevant information available.

## **13 Disposal considerations**

#### <sup>•</sup> Waste treatment methods

#### · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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.

## <sup>·</sup> 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	UN2014
· UN proper shipping name	
Limited Quantity for packages les	ss than 30 kg (66 lb) and inner packagings less than 1 L (0.3
· DOT, IATA · ADR/RID/ADN	Hydrogen peroxide, aqueous solutions 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION
·IMDG	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
<sup>·</sup> Transport hazard class(es)	
DOT	
· Class	5.1
· Label	5.1, 8
· ADR/RID/ADN	
	(Cont'd. on page 9)

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de name: Hydrogen Peroxide, 30% Solution	
	(Cont'd. of pa
Class	5.1 (OC1)
Label	5.1 + 8
IMDG	
Class	5.1
Label	5.1/8
ΙΑΤΑ	
Class	5.1
Label	5.1 (8)
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Oxidizing substances 58 F-H,S-Q
Segregation groups	Peroxides
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	f Not applicable.
Regulatory information	
Safety, health and environmental regula mixture United States (USA) SARA	tions/legislation specific for the substance
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)	
7722-84-1 hydrogen peroxide	
7732-18-5 Water	
Proposition 65 (California)	
Proposition 65 (California) Chemicals known to cause cancer:	

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3

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):

7722-84-1 hydrogen peroxide

· Canadian Domestic Substances List (DSL):

#### **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 OSHA: Occupational Safety & Health Administration Ox. Liq. 1: Oxidizing liquids - Category 1 Ox. Liq. 2: Oxidizing liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1C: Skin corrosion/irritation - Category 1C Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 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

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