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Reviewed on 04/05/2021

Identification	
· Product identifier	
• Trade name: <u>Hydrogen Peroxide</u> <u>3% Solution</u>	<b>OFITE</b> .
• Article number: 200-12 • Application of the substance / the mixture Laboratory c	hemicals
<ul> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: OFI Testing Equipment Inc.</li> <li>11302 Steeplecrest Dr.</li> <li>Houston, TX 77065</li> <li>(877) 837-8683</li> </ul>	
• Information department: techservices@ofite.com Technical Coordinator Sherman Nelson sherman@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
e Hazard(s) identification	
. Classification of the substance or mixture	
Classification of the substance or mixture GHS05 Corrosion Eye Dam. 1 H318 Causes serious eye damage.	
GHS05 Corrosion	d according to the Globally Harmonized System (GHS)
<i>Eye Dam. 1 H318 Causes serious eye damage.</i> <i>Label elements</i> <i>GHS label elements</i> The product is classified and labeled	d according to the Globally Harmonized System (GHS)
<i>Eye Dam. 1 H318 Causes serious eye damage.</i> • Label elements • GHS label elements The product is classified and labeled • Hazard pictograms GHS05	d according to the Globally Harmonized System (GHS)
<i>Eye Dam. 1 H318 Causes serious eye damage.</i> • Label elements • GHS label elements The product is classified and labeled • Hazard pictograms	d according to the Globally Harmonized System (GHS)
<i>Eye Dam. 1 H318 Causes serious eye damage.</i> <i>Label elements</i> <i>GHS label elements The product is classified and labeled</i> <i>Hazard pictograms</i> <i>GHS05</i> <i>Signal word Danger</i> <i>Hazard-determining components of labeling:</i> <i>Hydrogen Peroxide Solution</i> <i>Hazard statements</i> <i>Causes serious eye damage.</i> <i>Precautionary statements</i>	d according to the Globally Harmonized System (GHS)
GHS05 Corrosion Eye Dam. 1 H318 Causes serious eye damage. Label elements GHS label elements The product is classified and labeled Hazard pictograms GHS05 Signal word Danger Hazard-determining components of labeling: Hydrogen Peroxide Solution Hazard statements	

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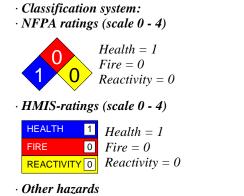
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Trade name: Hydrogen Peroxide 3% Solution

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9.577%

90.423%



· Results of PBT and vPvB assessment

· PBT: Not applicable.

• vPvB: Not applicable.

### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7722-84-1 Hydrogen Peroxide Solution

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

## 4 First-aid measures

· Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **5** Fire-fighting measures

· Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters

· Protective equipment: No special measures required.

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Trade name: Hydrogen Peroxide 3% Solution

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· Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
· Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
· Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to item 13.	
· 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 7722-84-1 Hydrogen Peroxide Solution	10 pp
· PAC-2:	
CAS: 7722-84-1 Hydrogen Peroxide Solution	50 pp
· PAC-3:	
CAS: 7722-84-1 Hydrogen Peroxide Solution	100 pp

#### 7 Handling and storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

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

CAS: 7722-84-1 Hydrogen Peroxide Solution

PEL Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

REL Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

TLV Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

• Additional information: The lists that were valid during the creation were used as basis.

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Trade name: Hydrogen Peroxide **3%** Solution

(Contd. of page 3)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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.

· Eve protection:

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information Appearance:	chemical properties			
Form:	Liquid			
Color:	Colorless			
· Odor:	Odorless			
· Odor threshold:	Not determined.			
pH-value:	Not determined.			
· Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	100 °C (212 °F)			
Flash point:	Not applicable.			
Flammability (solid, gaseous):	Not applicable.			

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Trade name: Hydrogen Peroxide 3% Solution

	(Contd. of pa	age
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
• Density at 20 •C (68 •F):	1.013 g/cm <sup>3</sup> (8.45349 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/wate	p <b>r):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	90.4 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- *Conditions to avoid* No further relevant information available.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

*Oral LD50 5,221 mg/kg* 

Inhalative LC50/4h 115 mg/l

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Trade name: Hydrogen Peroxide

**3%** Solution

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#### CAS: 7722-84-1 Hydrogen Peroxide Solution

 Oral
 LD50
 500 mg/kg (ATE)

 Inhalative
 LC50/4h
 11 mg/l (ATE)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7722-84-1 Hydrogen Peroxide Solution

· NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is listed.

#### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further 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.

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

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#### Trade name: Hydrogen Peroxide 3% Solution

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· UN-Number		
· DOT, ADN, IMDG, IATA	Not regulated	
· UN proper shipping name · DOT, ADN, IMDG, IATA	Not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA		
· Class	Not regulated	
· Packing group		
· DOT, IMDG, IATA	Not regulated	
· Environmental hazards:		
• Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• 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 No further relevant information available.

· Sara

 $\cdot$  Section 355 (extremely hazardous substances):

CAS: 7722-84-1 Hydrogen Peroxide Solution

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Water

Hydrogen Peroxide Solution

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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ACTIVE

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Trade name: Hydrogen Peroxide

3% Solution

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 7722-84-1 Hydrogen Peroxide Solution

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

• *Hazard-determining components of labeling: Hydrogen Peroxide Solution* 

· Hazard statements

Causes serious eye damage.

· Precautionary statements

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

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

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **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.

· Department issuing SDS: Environment protection department.

· Contact:

• Date of preparation / last revision Revision 0.0, 03-17-2021: Creation date for SDS. STN Creation date for SDS 07-15-2014 LS 04/05/2021 / 1.1

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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Trade name: Hydrogen Peroxide 3% Solution

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NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Eye Dam. 1: Serious eye damage/eye irritation – Category 1 • \* Data compared to the previous version altered.