## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture
Product name : STERI-PEROX® 3%
Product code : SDS SP-98-01-3

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaner

### 1.3. Supplier

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
20 Cope Dr.
Kanata, ON K2M 2V8, Canada
Telephone: (888)595-8070

### 1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
1-866-928-0789 (toll free)
Canada: 1-800-579-7421 (toll free)
Mexico: +52-55-5004-8763

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

Hazardous to the aquatic environment - Acute Hazard Category 3 H402 Harmful to aquatic life
Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

**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 an authorized waste collection point.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| Hydrogen peroxide | CAS-No.: 7722-84-1 | 2.5 - 3.5 | Ox. Liq. 1, H271<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 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 : Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.

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. If symptoms develop, obtain medical attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

First-aid measures after ingestion : Do NOT induce vomiting. Do not give an unconscious person anything to drink. Wash out mouth with water and give 100-200 ml of water to drink. If symptoms develop, obtain medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

Reactivity in case of fire : On heating, hydrogen peroxide decomposes to produce oxygen.

Hazardous decomposition products in case of fire : Oxygen.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.

Emergency procedures : Ventilate area. Avoid inhalation of vapors. Avoid contact with eyes, skin and clothing.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

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

For containment : Stop leak, if possible without risk. Dam up the liquid spill.

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.

### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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

Storage conditions : Store in original container. Keep cool. Keep out of direct sunlight. Keep container closed when not in use.

Incompatible materials : Alkalis. Strong acids. Reducing agents. Metals. Metallic salts.

Storage temperature : 0 – 49 °C

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Hydrogen peroxide |

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| ACGIH TWA (ppm) | 1 ppm |
| Remark (ACGIH) | Eye, URT, & skin irr |
| Regulatory reference | ACGIH 2021 |
| **USA - OSHA - Occupational Exposure Limits** | |
| Local name | Hydrogen peroxide |
| OSHA PEL (TWA) (mg/m³) | 1.4 mg/m³ |
| OSHA PEL (TWA) [2] | 1 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is below occupational exposure limits (where available).

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**
Avoid all unnecessary exposure.

| **Hand protection:** |
|---|
| Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough. |

| **Eye protection:** |
|---|
| If there is a risk of liquid being splashed : Chemical goggles or safety glasses |

| **Skin and body protection:** |
|---|
| Long sleeved clothing recommended |

| **Respiratory protection:** |
|---|
| Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment |

**Thermal hazard protection:**
Not required for normal conditions of use.

**Other information:**
Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Color : Colorless
Odor : Odorless
Odor threshold : No data available
pH : 4.5 – 6.5
Melting point : 0 °C (32 °F)
Freezing point : No data available
Boiling point : 100 °C (212 °F)

| | | |
|---|---|---|
| Flash point | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | Not applicable. |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | 1 – 1.02 (Water = 1) |
| Solubility | : | Miscible with water. |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosion limits | : | No data available |
| Explosive properties | : | Not explosive. |
| Oxidizing properties | : | Slightly oxidizing. |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7). On heating, hydrogen peroxide decomposes to produce oxygen.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

On heating, hydrogen peroxide decomposes to produce oxygen.

### 10.4. Conditions to avoid

High temperature. Direct sunlight. Incompatible materials.

### 10.5. Incompatible materials

Alkalis. Strong acids. Reducing agents. Metals. Metallic salts.

### 10.6. Hazardous decomposition products

Oxygen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |

| **Hydrogen peroxide (7722-84-1)** | |
|---|---|
| LD50 oral, rat | 693.7 mg/kg (female)(70% Aqueous solution), (OECD 401 method) |
| LD50 dermal, rabbit | > 2000 mg/kg body weight (35% Aqueous solution), (OECD 402 method) |
| LC50 inhalation, rat (mg/l) | > 170 mg/m³ - 4 Hours (50% aerosol), (OECD 403 method) |

Skin corrosion/irritation : Not classified.
Not irritating to rabbits on cutaneous application
pH: 4.5 – 6.5

Serious eye damage/irritation : Not classified.
Not irritating to eyes
(OECD 437 method)
pH: 4.5 – 6.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms : Not expected to present a significant hazard under anticipated conditions of normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| LC50 fish | 16.4 mg/l - 96 Hours (Pimephales promelas) |
| EC50 Daphnia | 2.4 mg/l - 48 Hours (Daphnia pulex) |
| NOEC chronic crustacea | 0.63 mg/l - 21 days (Daphnia magna, reproduction) |
| NOEC chronic algae | 0.63 mg/l - 72 Hours (Skeletonema costatum, Growth rate) |

### 12.2. Persistence and degradability

| STERI-PEROX® 3% | |
|---|---|
| Persistence and degradability | Expected to be readily biodegradable. |

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | > 99 % - 30 minutes (OECD 209 method) |

### 12.3. Bioaccumulative potential

| STERI-PEROX® 3% | |
|---|---|
| Bioaccumulative potential | No bioaccumulation. |

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| Log Pow | -1.57 (20 °C), (calculated value) |
| Bioaccumulative potential | Low bioaccumulation potential. |

### 12.4. Mobility in soil

| STERI-PEROX® 3% | |
|---|---|
| Ecology - soil | Miscible with water. |

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| Mobility in soil | Not expected to adsorb to soil |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal 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 Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**DOT**
Transport hazard class(es) (DOT) : Not applicable

**TDG**
Transport hazard class(es) (TDG) : Not applicable

**IMDG**
Transport hazard class(es) (IMDG) : Not applicable

**IATA**
Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : No special precautions required

**DOT**
No data available

**TDG**
No data available

**IMDG**
No data available

**IATA**
No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| STERI-PEROX® 3% | |
|---|---|
| SARA Section 311/312 Hazard Classes | Health hazard - Serious eye damage or eye irritation |

| Hydrogen peroxide (7722-84-1) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb |

### 15.2. International regulations

**CANADA**

| Hydrogen peroxide (7722-84-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations |
|---|---|
| Hydrogen peroxide(7722-84-1) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

Revision date : 04/19/2021
Data sources : US OSHA HazCom (GHS) 25 May 2012.
Other information : None.

| **Full text of H-phrases** | |
|---|---|
| H271 | May cause fire or explosion; strong oxidizer |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

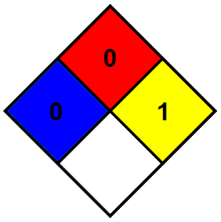
| **Abbreviations and acronyms** | |
|---|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | ATE (Acute Toxicity Estimate) |
| | CAS (Chemical Abstracts Service) number |
| | EC50 (Effective Concentration 50%) |
| | IARC (International Agency for Research on Cancer) |
| | IATA (International Air Transport Association) |
| | IMDG (International Maritime Dangerous Goods Code) |
| | IMO (International Maritime Organisation) |
| | LC50 (Lethal Concentration 50%) |
| | LD50 (Lethal Dose 50%) |
| | OECD (Organisation for Economic Co-operation and Development) |
| | OSHA (Occupational Safety and Health Administration) (US) |
| | PBT (Persistent, Bioaccumulative and Toxic) |
| | QSAR (Quantitative Structure-Activity Relationship) |
| | SADT (Self-Accelerating Decomposition Temperature) |
| | STEL (Short Term Exposure Limit) |
| | TSCA (Toxic Substances Control Act) (US) |

| Abbreviations and acronyms | |
|---|---|
| | TWA (Time Weighted Average) |
| | UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods) |
| | vPvB (very Persistent and very Bioaccumulative) |

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.




Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

**Indication of changes:**

| Section | Changed item | Change | Comments |
|---|---|---|---|
| 2 | Hazards identification | Modified | |
| 4 | First aid measures | Modified | |
| 8 | Exposure controls / Personal protection equipment | Modified | |
| 11 | Toxicological information | Modified | |
| 12. | Ecological information | Modified | |
| 13 | Disposal considerations | Modified | |
| 15 | Regulatory information | Modified | |
| 16 | Other information | Modified | |

Safety Data Sheet (SDS), USA