SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Trade name : Vaprox® 59 Hydrogen Peroxide Sterilant
Product code : PB031, PB032, PB033, PB034, PB035

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Antimicrobial agent
Use of the substance/mixture : Product for industrial use only

1.3. Details of the supplier of the safety data sheet
Company
STERIS Corporation
5960 Heisley Road, Mentor OH 44060, USA
Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)
US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

1.4. Emergency telephone number
Emergency number : US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Ox. Liq. 2 H272
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Corr. 1B H314
Eye Dam. 1 H318
STOT SE 3 H335

2.2. Label elements – This label is regulated by the EPA under FIFRA. Refer to Section 15.

GHS-US labelling
Hazard pictograms (GHS-US) :

- GHS03
- GHS05
- GHS07

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) :
H272 - May intensify fire; oxidiser
H302+H332 - Harmful if swallowed or if inhaled
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P220 - Keep/Store away from combustible materials
P221 - Take any precaution to avoid mixing with combustible materials
P260 - Do not breathe mist, spray, vapours
P261 - Avoid breathing mist, spray, vapours, fume, dust
P264 - Wash hands 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 eye protection, protective clothing, protective gloves
P301+P312 - If swallowed: Call a a POISON CENTER if you feel unwell
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - 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
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Vaprox® 59 Hydrogen Peroxide Sterilant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P310 - Immediately call a doctor, a POISON CENTER
P312 - Call a doctor if you feel unwell
P321 - Specific treatment (see on this label)
P330 - Rinse mouth
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use dry chemical, foam, carbon dioxide, Water fog to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>(CAS No.) 7722-84-1</td>
<td>59</td>
<td>Ox. Liq. 1, H271</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

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. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately get medical attention.

First-aid measures after skin contact: Remove contaminated clothing immediately. Immediately flush skin with plenty of water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Immediately get medical attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: If victim completely conscious/alert. Give water or milk if the person is fully conscious. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Hydrogen peroxide at these concentrations is a strong oxidant. Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation: Harmful if inhaled. Possible inflammation of the respiratory tract. Medical observation is recommended for 24 to 48 hours after overexposure, as pulmonary edema may be delayed. May cause respiratory irritation.

Symptoms/injuries after skin contact: Can cause chemical burns.

Symptoms/injuries after eye contact: Eye contact with concentrated solutions may cause severe eye damage followed by loss of sight.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard. Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available
SECTION 5: Firefighting measures

5.1. Extinguishing media

 Unsuitable extinguishing media: Organic compounds. As hydrogen peroxide may react with a variety of organic materials and can form explosive mixtures, shock sensitive compounds, and initiate fire. Foam is not effective as oxygen and heat continue to be generated under the foam blanket. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Precautionary measures fire: On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.

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.

Protective equipment for firefighters: Use self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Oxygen evolution decomposition may burst sealed containers and accelerate the burning rates of other combustible materials. Damp material in contact with paper, wood, cloth, etc. may cause spontaneous combustion of the organic material.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Ensure adequate ventilation. Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes. Stop leak if safe to do so.

6.1.1. For non-emergency personnel
Protective equipment: Wear protective gloves and eye/face protection. For further information refer to section 8: Exposure-controls/personal protection.

Emergency procedures: Stop leak if safe to do so. Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Do not absorb in sawdust, paper, cloth or other combustible absorbents. Comply with applicable local, national and international regulation. Collect spillage. Store away from other materials.

Other information: Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Read label before use. Avoid all eye and skin contact and do not breathe vapour and mist. keep away from incompatible materials. Do not wear leather soled shoes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust, mist or spray. Use only outdoors or in a well-ventilated area. Never return unused material to original container.
Hygiene measures: Take care for general good hygiene and housekeeping. Wash hands thoroughly after handling. Contaminated clothing should be washed thoroughly in order to eliminate a delayed potential fire hazard. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. Floors should be impervious, resistant to liquids and easy to clean.

Storage conditions: Keep only in the original container in a cool, well ventilated place. Store only in vented containers. Keep container tightly closed. Keep/Store away from clothing. Ensure control measures are regularly inspected and maintained.


Prohibitions on mixed storage: keep away from incompatible materials.

Storage area: Store in dry, cool, well-ventilated area.

Special rules on packaging: Correctly labelled.

Pesticide Storage: Do not contaminate water, food, feed by storage or disposal. Store containers upright. Do not freeze. Do not expose to cyanide, hexavalent chromium compounds, other oxidizers, reducers, combustible materials, or flammable vapors.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Hydrogen peroxide (7722-84-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
<tr>
<td>USA OSHA</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust ventilation is recommended to maintain vapor level below the threshold limit value (TLV).

Personal protective equipment: Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective goggles. Avoid all unnecessary exposure.

Hand protection: Wear protective gloves. Use neoprene gloves. Use gloves constructed of chemical resistant materials such as nitrile, neoprene, rubber, or vinyl if frequent or prolonged contact is expected.

Eye protection: Wear protective eyewear. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Do not wear contact lenses.

Skin and body protection: Wear suitable protective clothing. Rubber apron, boots.

Respiratory protection: Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask. Protection factors vary depending upon the type of respirator used.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
</tr>
</tbody>
</table>

Appearance: Clear.

Colour: Colourless.

Odour: Odourless.

Odour threshold: No data available

pH: <= 3.5
Relative evaporation rate (butyl acetate=1) : > 1
Melting point : No data available
Freezing point : -55 °C
Boiling point : 119 °C
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : > 85 °C
Flammability (solid, gas) : No data available
Vapour pressure : 14.2 mm Hg @ 30°C
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1.1 - 1.24 g/ml Specific Gravity
Solubility : Water: completely soluble
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 1.079 cP @ 25°C
Explosive properties : No data available
Oxidising properties : Oxidizer.
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur. Contamination may cause rapid decomposition, oxygen gas release and dangerous pressures.

10.4. Conditions to avoid
Extremely high or low temperatures. Direct sunlight. Protect from all contamination.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Toxic fumes may be released. Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Harmful if swallowed. Harmful if inhaled.

<table>
<thead>
<tr>
<th>Vaprox® 59 Hydrogen Peroxide Sterilant</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (oral)</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydrogen peroxide (7722-84-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
</tr>
<tr>
<td>ATE CLP (gases)</td>
</tr>
<tr>
<td>ATE CLP (vapours)</td>
</tr>
</tbody>
</table>
Hydrogen peroxide (7722-84-1)

ATE CLP (dust, mist)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.000 mg/l/4h</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

- Causes severe skin burns and eye damage.
  - pH: <= 3.5

Serious eye damage/irritation

- Causes serious eye damage.
  - pH: <= 3.5

Respiratory or skin sensitisation

- Not classified

Germ cell mutagenicity

- Not classified

Based on available data, the classification criteria are not met.

Carcinogenicity

- Not classified

Hydrogen peroxide (7722-84-1)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

Reproductive toxicity

- Not classified

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

- May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

- Not classified

Based on available data, the classification criteria are not met.

Aspiration hazard

- Not classified

Based on available data, the classification criteria are not met.

Potential Adverse human health effects and symptoms

- Harmful if swallowed. Possible inflammation of the respiratory tract. Medical observation is recommended for 24 to 48 hours after overexposure, as pulmonary edema may be delayed. May cause respiratory irritation.

- Can cause chemical burns.

- Eye contact with concentrated solutions may cause severe eye damage followed by loss of sight.

- Swallowing a small quantity of this material will result in serious health hazard. Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water

- Harmful to aquatic life with long lasting effects.

Hydrogen peroxide (7722-84-1)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Vaprox® 59 Hydrogen Peroxide Sterilant

Persistence and degradability

- May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Vaprox® 59 Hydrogen Peroxide Sterilant

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>-1.57 @ 20°C</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Hydrogen peroxide (7722-84-1)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>(no bioaccumulation)</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

- No additional information available

12.5. Other adverse effects

Other information

- Avoid release to the environment.
## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste disposal recommendations**

- **PESTICIDE DISPOSAL:** Rinse containers with 20 parts water and then empty into sink with running water. Hydrogen Peroxide is classified as a DOT oxidizer and a hazardous waste under U.S. EPA hazardous waste regulations and it is a violation of federal law to improperly dispose of pesticides.

  Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of Federal Law. If waste cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Additional information**

- **CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

**Ecology - waste materials**

- Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

Keep well ventilated and away from direct sunlight or heat sources.

### 14.1. UN number

| UN-No. | 2014 |
| UN-No.(IATA) | 2014 |
| UN-No. (IMDG) | 2014 |
| UN-No.(ADN) | 2014 |

### 14.2. UN proper shipping name

- **Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- **Proper Shipping Name (IATA):** HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS, 59 %
- **Transport document description:** UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS 59% STABILIZED), 5.1 (8), II

### 14.3. Transport hazard class(es)

| Class (UN) | 5.1 |
| Classification code (UN) | OC1 |
| Class (IATA) | 5.1 |
| Class (IMDG) | 5.1 |
| Class (ADN) | 5.1 |
| Hazard labels (UN) | 5.1, 8 |

### 14.4. Packing group

- **Packing group (UN):** II

### 14.5. Environmental hazards

- **Dangerous for the environment:** No
- **Marine pollutant:** No
- **Other information:** No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

| Hazard identification number (Kemler No.) | 58 |
| Classification code (UN) | OC1 |
| Orange plates | 58 |
| **Transport category (ADR):** | 2 |
| **Tunnel restriction code:** | E |
| **Limited quantities (ADR):** | 1L |
Vaprox® 59 Hydrogen Peroxide Sterilant

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Excepted quantities (ADR) : E2
EAC code : 2P

### 14.6.2. Transport by sea

**PB031 (950mL), PB032 (18.93L), PB033 (113mL), PB034 (70mL)**

See above information (IMDG)

**PB035 (29mL)**

Conforms with IMDG 3.5. Shipping paper must state “dangerous goods in excepted quantities”.

### 14.6.3. Air transport

**PB031 (950mL), PB032 (18.93L), PB033 (113mL), PB034 (70mL)**

Forbidden

Transport regulations (IATA) : Hydrogen peroxide (>40%) is forbidden on Passenger and Cargo Aircraft
Instruction “passenger” (ICAO) : Hydrogen peroxide (>40%) is forbidden on Passenger and Cargo Aircraft

**PB035 (29mL)**

Air: Conforms with ICAO SP A75.

### 14.6.4. Inland waterway transport

Vaprox 59 is not considered a marine pollutant.

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

Not applicable

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**SECTION 15: Regulatory information**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

<table>
<thead>
<tr>
<th>EPA FIFRA Signal Word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oxidizer</td>
</tr>
<tr>
<td></td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EPA FIFRA Hazard Statements</th>
<th>Keep Out of Reach of Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA FIFRA Precautionary Statements</td>
<td>Hazards to Humans and Domestic Animals</td>
</tr>
<tr>
<td></td>
<td>Corrosive.</td>
</tr>
<tr>
<td></td>
<td>Causes irreversible eye damage or skin burns.</td>
</tr>
<tr>
<td></td>
<td>May be fatal if inhaled.</td>
</tr>
<tr>
<td></td>
<td>Harmful if swallowed or absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>Do not get in eyes, on skin or on clothing.</td>
</tr>
<tr>
<td></td>
<td>Do not breathe spray mist.</td>
</tr>
<tr>
<td></td>
<td>Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.</td>
</tr>
<tr>
<td></td>
<td>User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</td>
</tr>
<tr>
<td></td>
<td>User should remove contaminated clothing and wash before reuse.</td>
</tr>
</tbody>
</table>

### 15.1. US Federal regulations

**Hydrogen peroxide (7722-84-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302

| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 (concentration >52%) |

---

**SECTION 16: Other information**

Revision Date: 07/20/2018
Other information: None.
Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Dermal)</th>
<th>Acute toxicity (dermal) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhalation) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Ox. Liq. 1</td>
<td>Oxidising Liquids, Category 1</td>
</tr>
<tr>
<td>Ox. Liq. 2</td>
<td>Oxidising Liquids, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H271</td>
<td>May cause fire or explosion; strong oxidiser</td>
</tr>
<tr>
<td>H272</td>
<td>May intensify fire; oxidiser</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

NFPA health hazard: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard: 0 - Materials that will not burn.

NFPA reactivity: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

SDS US (GHS HazCom 2012)

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.