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

1.1. Product identifier
Product form : Mixture
Trade name : Spor-Klenz® Ready To Use Sporicide/Disinfectant
Product code : 6525

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Hard Surface Antimicrobial

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Manufacturer:
STERIS Corporation
P. O. Box 147, St. Louis, MO 63166, US
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)

Supplier:
STERIS Ireland Limited
IDA Business and Technology Park
Tullamore
County Offaly
R35 X865
Ireland.
Product/Technical Information Phone No: +44 (0) 116 276 8636
Email: asksteris_msds@steris.com

1.4. Emergency telephone number
Emergency number : +44 (0) 1895 622 639

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin Corr. 1A H314

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05

Signal word (CLP) : Danger
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
Precautionary statements (CLP) : P260 - Do not breathe mist, fume, spray, vapours
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing and eye/face protection
P301+P330+P331 - If swallowed: Rinse mouth. Do NOT induce vomiting
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

09/11/2019 EN (English) SDS Ref: 6525UK 1/8
2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>(CAS No) 64-19-7</td>
<td>&lt; 10</td>
<td>Flam. Liq. 3, H226, Skin Corr. 1A, H314</td>
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<tr>
<td></td>
<td>(EC no) 200-580-7</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>(EC index no) 607-002-00-6</td>
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<td></td>
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<tr>
<td></td>
<td>(REACH No) 01-2119475328-30-0119</td>
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<td></td>
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<tr>
<td>Hydrogen peroxide</td>
<td>(CAS No) 7722-84-1</td>
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<td>Ox. Liq. 1, H271, Acute Tox. 4 (Oral), H302, Acute Tox. 4 (Inhalation), H332, Skin Corr. 1A, H314, STOT SE 3, H335, Aquatic Chronic 3, H412</td>
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<td></td>
<td>(EC no) 231-765-0</td>
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<tr>
<td></td>
<td>(EC index no) 998-003-00-9</td>
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<td></td>
</tr>
<tr>
<td>Peroxyacetic acid</td>
<td>(CAS No) 79-21-0</td>
<td>0.08</td>
<td>Flam. Liq. 3, H226, Org. Perox. D, H242, Acute Tox. 3 (Oral), H301, Acute Tox. 4 (Dermal), H312, Acute Tox. 2 (Inhalation:dust,mist), H330, Skin Corr. 1A, H314, STOT SE 3, H335, Aquatic Acute 1, H412</td>
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<tr>
<td>substance with national</td>
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<tr>
<td>workplace exposure limit(s) (CZ, FI)</td>
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<td></td>
<td>(EC no) 201-186-8</td>
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<td></td>
<td>(EC index no) 607-094-00-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of EUH-phrases: 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 to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention
First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention
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. In all cases of doubt, or when symptoms persist, seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing
First-aid measures after ingestion: Rinse mouth. Give water to drink if victim completely conscious/alert. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician

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

Symptoms/injuries: Causes severe skin burns and eye damage
Symptoms/injuries after inhalation: May cause minor irritation to the respiratory tract and to other mucus membranes. The following symptoms may occur: Runny nose. Sore throat. Coughing. Sneezing
Symptoms/injuries after skin contact: Severe skin irritant. Effects of skin contact may include: irritation and burn feeling
Symptoms/injuries after eye contact: Causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness
Symptoms/injuries after ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Bleeding of the gastrointestinal tract

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand

Unsuitable extinguishing media: Do not use a heavy water stream
Spor-Klenz® Ready To Use
Sporicide/Disinfectant
Safety Data Sheet
according to Regulation (EC) No. 453/2010

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters
Firefighting instructions: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment
Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus
Other information: Do not mix with: chlorinated products as this could liberate toxic corrosive chlorine gas

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes

6.1.1. For non-emergency personnel
Protective equipment: Wear suitable protective clothing. Wear protective gloves and eye/face protection. Boots
Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection
Emergency procedures: Ventilate area

6.2. Environmental precautions
Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up
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. Leftovers: neutralize with sodium bicarbonate. Neutralise with dry sodium carbonate

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: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe gas, fumes, vapour or spray. Keep container tightly closed to avoid moisture absorption and contamination
Hygiene measures: Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations. A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation
Storage conditions: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Keep out of reach of children
Storage temperature: < 24 °C ( < 75°F )
Heat and ignition sources: Store away from excessive heat. Remove all sources of ignition
Storage area: Store in dry, cool, well-ventilated area
Special rules on packaging: Correctly labelled

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>
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<tbody>
<tr>
<td>USA IDLH</td>
<td>US IDLH (ppm)</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m3)</td>
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<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m3)</td>
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<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
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Hydrogen peroxide (7722-84-1)

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<td>WEL TWA (ppm)</td>
<td>WEL STEL (mg/m³)</td>
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Acetic acid (64-19-7)

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<th>USA NIOSH</th>
<th>USA OSHA</th>
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<td>NIOSH REL (TWA) (mg/m3)</td>
<td>OSHA PEL (TWA) (mg/m3)</td>
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<td>WEL TWA (mg/m³)</td>
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<td>10 ppm</td>
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Peroxyacetic acid (79-21-0)

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<th>USA ACGIH</th>
<th>ACGIH STEL (ppm)</th>
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<tbody>
<tr>
<td></td>
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<td>0.4 ppm (inhalable fraction and vapor)</td>
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</table>

Exposure controls

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment: Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing, Gloves. Protective goggles. Protective goggle.

Hand protection: Wear protective gloves, rubber or nitrile gloves.

Eye protection: Chemical goggles or face shield.

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

Respiratory protection: Work in well-ventilated zones or use proper respiratory protection. Wear approved mask.

Other information: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid.

Colour: Colourless.


Odour threshold: No data available.

pH: 1.5 - 2.

Relative evaporation rate (butylacetate=1): No data available.

Melting point: No data available.

Freezing point: No data available.

Boiling point: No data available.

Flash point: No data available.

Self ignition temperature: No data available.

Decomposition temperature: No data available.

Flammability (solid, gas): Non flammable.

Vapour pressure: No data available.

Relative vapour density at 20 °C: No data available.

Relative density: No data available.

Density: ca. 1.01 Specific Gravity.

Solubility: Water: completely soluble.

Log Pow: No data available.
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according to Regulation (EC) No. 453/2010

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
 Explosive properties : No data available
 Oxidising properties : No data available
 Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition generates: Corrosive vapours

10.2. Chemical stability
Stable under normal conditions of use. Recommended storage temperature

10.3. Possibility of hazardous reactions
Not established

10.4. Conditions to avoid
Store in a cool dry place. Keep storage temperature below 75 °F (24 °C). Take any precaution to avoid mixing with combustibles

10.5. Incompatible materials

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified

Spor-Klenz® Ready To Use Sporicide/Disinfectant
LD50 oral > 5000 mg/kg
LD50 dermal rat > 20000 mg/kg

Hydrogen peroxide (7722-84-1)
LD50 oral rat 801 mg/kg
LD50 dermal rat 4060 mg/kg
LD50 dermal rabbit 2000 mg/kg
LC50 inhalation rat (mg/l) 2 g/m³ (Exposure time: 4 h)
ATE (oral) 801,000 mg/kg bodyweight
ATE (dermal) 2000,000 mg/kg bodyweight

Acetic acid (64-19-7)
LD50 oral rat 3310 mg/kg
LD50 dermal rabbit 1060 µl/kg
LC50 inhalation rat (mg/l) 11,4 mg/l/4h

Peroxyacetic acid (79-21-0)
LD50 oral rat 263 mg/kg
LD50 dermal rabbit 1410 µl/kg
LC50 inhalation rat (mg/l) 0,3 mg/l (Exposure time: 1 h)
ATE (oral) 263,000 mg/kg bodyweight
ATE (dermal) 1100,000 mg/kg bodyweight
ATE (dust,mist) 0,300 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage
pH: 1.5 - 2

Serious eye damage/irritation : Eye damage, category 1, implicit
Causes severe skin burns and eye damage
pH: 1.5 - 2

Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met
Germ cell mutagenicity: Not classified
Based on available data, the classification criteria are not met.

Carcinogenicity: Not classified
Based on available data, the classification criteria are not met.

Reproductive toxicity: Not classified
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Not classified
Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Toxic to aquatic organisms. Bird toxicity (reproduction). Toxic to fish. Toxic to invertebrates (Daphnia)

Hydrogen peroxide (7722-84-1)
- LC50 fishes 1: 16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
- EC50 Daphnia 1: 7.7 mg/l (Exposure time: 24 h - Species: Daphnia magna)
- EC50 other aquatic organisms 1: 2.5 mg/l (Exposure time: 72 h - Species: Chlorella vulgaris)
- LC50 fish 2: 18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [Static])
- EC50 Daphnia 2: 18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Acetic acid (64-19-7)
- LC50 fishes 1: 79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Static])
- EC50 Daphnia 1: 47 mg/l (Exposure time: 24 h - Species: Daphnia magna)
- LC50 fish 2: 75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [Static])
- EC50 Daphnia 2: 65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

Spor-Klenz® Ready To Use Sporicide/Disinfectant
Persistence and degradability: Not established

12.3. Bioaccumulative potential

Spor-Klenz® Ready To Use Sporicide/Disinfectant
Bioaccumulative potential: Not established

Hydrogen peroxide (7722-84-1)
- BCF fish 1: (no bioaccumulation)

Acetic acid (64-19-7)
- Log Pow: -0.31 (at 20 °C)

Peroxyacetic acid (79-21-0)
- BCF fish 1: (not bioaccumulative, rapid degradation)

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations
Additional information: Empty containers should be thoroughly rinsed with large quantities of clean water. Dispose of empty containers and wastes safely. 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 ADR / RID / ADNR / IMDG / ICAO / IATA
Not regulated for transport.

14.1. UN number
Not applicable

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Other information: No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport
No additional information available

14.6.2. Transport by sea
No additional information available

14.6.3. Air transport
No additional information 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. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information
Registration Date: 09/11/2019

Other information: None

Full text of EUH-phrases:
Acute Tox. 2 (Inhalation,dust,mist) Acute toxicity (inhalation:dust,mist), Category 2
Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation) Acute toxicity (inhalation), Category 4
Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
Aqueous Acute 1 Hazardous to the aquatic environment — AcuteHazard, Category 1
Aqueous Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3
Flam. Liq. 3 Flammable liquids, Category 3
Org. Perox. D Organic Peroxides, Type D
# Spor-Klenz® Ready To Use
Sporicide/Disinfectant
Safety Data Sheet
according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ox. Liq. 1</td>
<td>Oxidising Liquids, Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation, Category 1A</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure), Category 3</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour</td>
</tr>
<tr>
<td>H242</td>
<td>Heating may cause a fire</td>
</tr>
<tr>
<td>H271</td>
<td>May cause fire or explosion; strong oxidizer</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
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<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
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<td>H330</td>
<td>Fatal if inhaled</td>
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<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II)

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.