

### 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 Cold Sterilant  
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, 703-527-3887 (CHEMTREC)  
Email: [asksteris\\_msd@steris.com](mailto:asksteris_msd@steris.com)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US Classification

Skin Corr. 1A H314

Full text of H-phrases: see Section 16.

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

##### GHS-US Labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage.  
Precautionary statements (GHS-US) : P260 - Do not breathe mist, fume, spray, vapors.  
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.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

No additional information available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable.

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#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid	CAS No 64-19-7	< 10	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Hydrogen peroxide	CAS No 7722-84-1	1	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
Peroxyacetic acid	CAS No 79-21-0	0.08	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, H400

Full text H-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 mucous 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.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide.
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### 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.

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#### 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

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

##### 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. Neutralize 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 vapor. Do not breathe gas, fumes, vapor or spray. Avoid contact during pregnancy/while nursing. 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.  
Incompatible materials : Heavy metals. copper, bronze, brass. Copper alloys. Iron. Aluminium. Salts. Alkalis and caustic products. Organic compounds. Formaldehyde. Chlorine.  
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. Do not expose to direct sunlight.  
Special rules on packaging : Correctly labelled.  
Pesticide Storage : Do not contaminate water, food, or feed by storage or disposal.

##### 7.3. Specific end use(s)

No additional information available.

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

Hydrogen peroxide (7722-84-1)		
USA IDLH	US IDLH (ppm)	75 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m3)	1,4 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (TWA) (mg/m3)	1,4 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm

Acetic acid (64-19-7)		
USA IDLH	US IDLH (ppm)	50 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m3)	25 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m3)	37 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	15 ppm

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Acetic acid (64-19-7)		
USA OSHA	OSHA PEL (TWA) (mg/m3)	25 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

#### 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, protective clothing. Gloves. Protective goggles. Protective goggles.



- Hand protection : Wear protective gloves, rubber or plastic gloves.
- Eye protection : Wear 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
- Color : Colorless
- Odor : Acidic characteristic
- Odor 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
- Vapor pressure : No data available
- Relative vapor density at 20 °C : No data available
- Relative density : No data available
- Density : ca. 1.01 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 : No data available
- Explosive properties : No data available
- Oxidizing 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 vapors.

#### 10.2. Chemical stability

Stable under normal conditions of use. Recommended storage temperature.

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#### 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

Strong acid. Strong bases. Heavy metals. Iron. Copper and its alloys. Brass. Aluminium. Caustic products. Combustible organic materials. Alkalis. Chlorine. Formaldehyde.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified.

Spor-Klenz® Ready To Use Cold Sterilant	
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/m <sup>3</sup> (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 pH: 1.5 - 2
Serious eye damage/irritation	: Causes 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	: Not classified Based on available data, the classification criteria are not met.

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#### 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 Cold Sterilant	
Persistence and degradability	Not established.

##### 12.3. Bioaccumulative potential

Spor-Klenz® Ready To Use Cold Sterilant	
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 : PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site in a sanitary sewer or at an approved waste disposal facility.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this process two more times.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes 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. Clean container promptly after emptying.

Do not contaminate water, food, or feed by storage or disposal.

Ecology - waste materials : Avoid release to the environment.

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#### SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

##### 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

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.

#### SECTION 15: Regulatory information

##### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA FIFRA Pesticide Product Notice	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.
EPA FIFRA Signal Word	Danger
EPA FIFRA Hazard Statements	Keep Out of Reach of Children
EPA FIFRA Precautionary Statements	Hazard to Humans and Domestic Animals
	Corrosive.
	Causes irreversible eye damage.
	Harmful if absorbed through the skin.
	Do not get in eyes, on skin or on clothing.
	Avoid contact with skin.
	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
	Remove contaminated clothing and wash hands before reuse.
	Caution should be used when applying indoors because pets may be at risk.

##### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Revision Date : 08/12/2015

Other information : None

Full text of H-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
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic 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
Ox. Liq. 1	Oxidizing Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A

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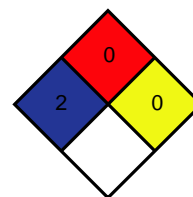
according Federal Register/Vol. 77, No. 58 /Monday, March 28, 2012/Rules and Regulation

STOT SE 3	Specific target organ toxicity (single exposure), Category 3
H226	Flammable liquid and vapor
H242	Heating may cause a fire
H271	May cause fire or explosion; strong oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard : 2 - Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.

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

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and is not reactive with water.



STERIS Corporation

*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.*