



STERIS®

Spor-Klenz® Concentrate Cold Sterilant

Safety Data Sheet

In accordance with The Model Work Health and Safety Regulations, and the Globally Harmonized System of Classification and Labelling of Chemicals 3rd Revised Edition.

Revision Date: 1/17/2017

Version: 1.0

SECTION 1: PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

1.1 Product Identifier

Product Form: Mixture
Product Name: Spor-Klenz® Concentrate
Cold Sterilant
Product Code: 6520

1.2 Intended Use of the Product

Hard Surface Antimicrobial.
For professional use only.

1.3 Name, Address, and Telephone of the Responsible Party

Manufacturer

STERIS Corporation
P.O. Box 147
St. Louis, MO 63166 USA
Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)
web: www.steris.com
email: asksteris_msds@steris.com

Supplier

Device Technologies Australia Pty Ltd
1 Garigal Road
Belrose NSW 2085 Australia
Telephone: 1800 429 551
Fax: 612 9975 5711

Device Technologies New Zealand Ltd
47 Arrenway Drive
Albany Auckland 0632
New Zealand
Telephone: 0508 338 423
Fax: 649 913 2009

1.4 Emergency Telephone Number

Emergency number : Australia: 1 800 429 551 (24 hours); New Zealand: 0508 338 423
CHEMTREC International: 1-703-741-5970

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification According to NOHSC:

Hazardous Substance. Dangerous Goods.

Classification (GHS-AU)

Ox. Liq. 1 H271
Skin Corr. 1A H314
STOT SE 3 H335
Aquatic Acute 2 H401

2.2 Label Elements

GHS-AU Labeling

Hazard Pictograms (GHS-AU) :



GHS03



GHS05



GHS07

Signal Word (GHS-AU) :

Danger

Hazard Statements (GHS-AU) :

H271 - May cause fire or explosion; strong oxidiser.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.
H401 - Toxic to aquatic life.

Precautionary Statements (GHS-AU) :

P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.
P221 - Take any precaution to avoid mixing with combustible material, oxidizable materials, and

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incompatible materials.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, protective gloves, eye protection, face protection.

P283 - Wear fire/flammable resistant/retardant clothing.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P306+P360 - IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see section 4 on this SDS).

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use water in flooding amounts for extinction.

P371+P380+P375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

Non-GHS Hazards

Not available

2.3 Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Name	Product identifier	% (w/w)	GHS-AU Classification
Hydrogen peroxide	(CAS No) 7722-84-1	22	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour, dust, mist), H332 Skin Corr. 1A, H314 STOT SE 3, H335
Acetic acid	(CAS No) 64-19-7	< 10	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318
Peroxyacetic acid	(CAS No) 79-21-0	4.5	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 STOT SE 3, H335
Other Non-Hazardous Ingredients	NA	Up to 100	NA

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Personal Protection in First Aid and Measures: Use appropriate personal protection equipment (PPE).

4.2 Most Important Symptoms and Effects Both Acute and Delayed

General: Corrosive. Causes burns. May cause respiratory irritation.

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Inhalation: May cause respiratory irritation
Skin Contact: Causes severe irritation which will progress to chemical burns.
Eye Contact: Causes severe irritation which will progress to chemical burns.
Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: None known.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Water spray, fog, carbon dioxide, foam, dry chemical.
Unsuitable Extinguishing Media: Use of heavy stream of water may spread fire.

5.2 Special Hazards Arising From the Substance or Mixture

Fire Hazard: 'Oxidizing': substances and preparations which exhibit highly exothermic reactions when in contact with other substances, particularly flammable substances. Will continue to burn in the absence of air.
Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heating may cause an explosion.
Reactivity: May cause or intensify fire; oxidizer. Contains an organic peroxide; keep away from incompatible materials. SADT.

5.3 Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Acrid smoke and irritating fumes. Oxygen. Acetic acid. Heat.
HAZCHEM Emergency Action Code (Australia): 2P

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Remove ignition sources. No naked lights. No smoking. Do not allow product to spread into the environment.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2 Environmental Precautions

Prevent entry to sewers and public waters.

6.3 Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container.
Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid with sodium bicarbonate or sodium carbonate. Absorb spillage to prevent material damage. Collect absorbed material and place into a sealed, labelled container for proper disposal.

6.4 Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Additional Hazards When Processed: Keep only in original container. Keep container closed when not in use. Ensure adequate ventilation.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Store in original container. Store the bottle in upright position in a dark and cool place. Keep away from heat and direct sunlight.
Incompatible Materials: Heavy metals. Salts. Flammable materials. Organic materials. Alkalis. Caustic products. Chlorine. Formaldehyde.
Storage Temperature: Below 24 °C (75 °F)

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7.3 Specific End Use(s)

Hard Surface Antimicrobial. For professional use only.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters

Peroxyacetic acid (79-21-0)		
USA ACGIH	ACGIH STEL (ppm)	0.4 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Acetic acid (64-19-7)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
Australia	STEL (mg/m ³)	37 mg/m ³
Australia	STEL (ppm)	15 ppm
Australia	TWA (mg/m ³)	25 mg/m ³
Australia	TWA (ppm)	10 ppm
Hydrogen peroxide (7722-84-1)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Australia	TWA (mg/m ³)	1.4 mg/m ³
Australia	TWA (ppm)	1 ppm

8.2 Exposure Controls

Appropriate Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour or mists below the applicable workplace exposure limits indicated above. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Gloves. Protective goggles. Corrosionproof clothing. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles. A full face shield is recommended.

Skin and Body Protection: Wear suitable protective clothing. Wash contaminated clothing before reuse.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

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
Appearance	: Clear, colorless
Odor	: Acid
Odor Threshold	: Not available
pH	: 0.5 - 1.1
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Specific Gravity	: 1.13 g/mL
Solubility	: Complete in water
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

May cause or intensify fire; oxidizer. Contains an organic peroxide; keep away from incompatible materials.

10.2 Chemical Stability:

Stable under recommended handling and storage conditions (see section 7). Self-accelerating decomposition temperature (SADT) for peroxyacetic acid is 74.2 °C.

10.3 Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4 Conditions to Avoid:

Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition. Contamination.

10.5 Incompatible Materials:

Heavy metals. Salts. Flammable materials. . Organic materials. Alkalis. Caustic products. Chlorine. Formaldehyde.

10.6 Hazardous Decomposition Products:

Thermal decomposition generates: Heat. Oxygen. Acetic acid. Contact with chlorinated products may release of toxic and corrosive chlorine gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects - Product

Acute Toxicity: Oral: Not classified.

LD50 and LC50 Data:

Spor-Klenz® Concentrate Cold Sterilant	
LD50 Oral Rat	2.1 g/kg Male rats
LD50 Dermal Rat	> 2 g/kg
LD50 Intravenous Rat	212 mg/kg Male rats
LC50 Inhalation Rat	> 2.26 mg/l

Skin Corrosion/Irritation: Causes severe skin burns. (pH: 0.5 - 1.1)

Serious Eye Damage/Irritation: Causes serious eye irritation. (pH: 0.5 - 1.1)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None known.

11.2 Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Peroxyacetic acid (79-21-0)	
LD50 Oral Rat	1540 mg/kg
LD50 Dermal Rabbit	1410 µl/kg
ATE AU (dust,mist)	1.50 mg/l/4h
Acetic acid (64-19-7)	
LD50 Oral Rat	3310 mg/kg
Hydrogen peroxide (7722-84-1)	
LD50 Oral Rat	1193 mg/kg (Species: Sprague-Dawley; Exposure time: 4 h)
LD50 Dermal Rat	4060 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
ATE AU (vapours)	11.00 mg/l/4h
ATE AU (dust,mist)	1.50 mg/l/4h
Hydrogen peroxide (7722-84-1)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - General: Toxic to aquatic life.

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LC50 Fish 1	4.25 mg/l Bluegill
EC50 Daphnia 1	2.61 mg/l Daphnia Magna/Water Flea
LC 50 Fish 2	6.68 mg/l Rainbow Trout
Acetic acid (64-19-7)	
LC50 Fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Hydrogen peroxide (7722-84-1)	
LC50 Fish 1	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative Potential

Peroxyacetic acid (79-21-0)	
BCF fish 1	(not bioaccumulative, rapid degradation)
Acetic acid (64-19-7)	
Log Pow	-0.31 (at 20 °C)
Hydrogen peroxide (7722-84-1)	
BCF fish 1	(no bioaccumulation)

12.4 Mobility in Soil

Not available

12.5 Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS


Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Container remains hazardous when empty. Continue to observe all precautions.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No	: 3149
UN-No.(IATA)	: 3149
UN-No. (IMDG)	: 3149
14.2. UN proper shipping name	
Proper Shipping Name	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED (Disinfectant)
Transport document description	: UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED (Disinfectant), 5.1, 8, II
14.3. Transport hazard class(es)	
Class (UN)	: 8
Class (IATA)	: 8
Class (IMDG)	: 8
Hazard labels (UN)	: 8
	
14.4. Packing group	
Packing group (UN)	: II

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14.5. Environmental hazards

Other information : No supplementary information available

14.6. Special precautions for user

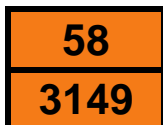
Special transport precautions : Packaging must be vented

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 58

Classification code (UN) : OC1

Orange plates :



Transport category (ADR) : 2

Tunnel restriction code : E

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E2

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Australia

ADG/HazChem Code: 2P

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 National Regulations

AICS Listed or Exempt. Hazard Category: Oxidizer, Corrosive

Peroxyacetic acid (79-21-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302
Listed on United States SARA Section 313
Listed on the Canadian IDL (Ingredient Disclosure List)

Acetic acid (64-19-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian IDL (Ingredient Disclosure List)

Hydrogen peroxide (7722-84-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Japanese Poisonous and Deleterious Substances Control Law
Listed on the United States SARA Section 302
Listed on the Canadian IDL (Ingredient Disclosure List)

15.2 International Agreements

No additional Information available

15.3 Australia National Regulations

Peroxyacetic acid (79-21-0)	
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	Appendix E, Appendix F - Safety Statements, Appendix F - Warning Statements, Schedule 5, Schedule 6
Acetic acid (64-19-7)	
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	Appendix E, Appendix F - Safety Statements, Appendix F - Warning Statements, Schedule 2, Schedule 5, Schedule 6
High Volume Industrial Chemicals List	Present
Hydrogen peroxide (7722-84-1)	
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	Appendix E, Appendix F - Safety Statements, Appendix F - Warning Statements, Schedule 5, Schedule 6
High Volume Industrial Chemicals List	Present

15.4 Australia Territory Regulations

No additional Information available

SECTION 16: ADDITIONAL INFORMATION

Revision Date : 1/17/2017
Other Information : In accordance with The Model Work Health and Safety Regulations, and the Globally Harmonized System of Classification and Labelling of Chemicals 3rd Revised Edition.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS Australia GHS