Spor-Klenz® RTU ETO Process Packaged Cold

STERIS[®] Sterilant Safety Data Sheet

According to amending Regulation (EC) No. 1907/2006 (REACH) Date of issue: 11/4/2022

Version: 1.0

	ubstance/mixture and of the company/undertaking
1.1. Product identifier Product form	: Mixture
Trade name	: Spor-Klenz [®] RTU ETO Process Packaged Cold Sterilant
Product code	: 6528
Product group	: Trade product
1.2. Relevant identified uses of the s	ubstance 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 safe	ety data sheet
Manufacturer:	
STERIS Corporation P. O. Box 147, St. Louis, MO 63166, US Telephone Number for Information: 1-800-44 US Emergency Telephone No.1-314-535-139	4-9009 (Customer Service-Scientific Products) 95 (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: +4 Email: asksteris_msds@steris.com	14 (0) 116 276 8636
1.4. Emergency telephone number	
Emergency number	: +44 (0) 1895 622 639
SECTION 2: Hazards identification	n
2.1. Classification of the substance of	or mixture
Classification according to Regulation (EC Skin Corr. 1A H314	C) No. 1272/2008 [CLP]
Full text of H-phrases: see section 16	
Adverse physicochemical, human health a No additional information available	and environmental effects
2.2. Label elements	
Labelling according to Regulation (EC) No Hazard pictograms (CLP)	5. 1272/2008 [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

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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

3.2. **Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607-002-00-6 (REACH No) 01-2119475328-30-0119	< 10	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Hydrogen peroxide	(CAS No) 7722-84-1 (EC no) 231-765-0 (EC index no) 008-003-00-9	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 substance with national workplace exposure limit(s) (CZ, FI)	(CAS No) 79-21-0 (EC no) 201-186-8 (EC index no) 607-094-00-8	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 of H- and EUH-phrases: see section 16

4.1. Description of first aid measures	
	Na sa shi an dhina ha ma dhina an an an si an an an 16 an 6 a lamaa U a sha a dha dhida
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advic (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 rinsir
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 effective states and effective symptoms and effective symptometry symptometry and symptometry	fects, 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 followin symptoms may occur: Runny nose. Sore throat. Coughing, sneezes
Symptoms/injuries after skin contact	: Severe skin irritant. Effects of skin contact may include: irritation and burning feeling
Symptoms/injuries after eye contact	: Causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possit 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

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

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5.2. Special hazards arising from the su	ibstance or mixture
Hazardous decomposition products in case of ire	: Thermal decomposition generates : Fume. Carbon monoxide. Carbon dioxide
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 mea	sures
	upment 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 containm	ent 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	

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. 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, includin	g 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
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 parameter	3.1. Control parameters		
Hydrogen peroxide (7722	2-84-1)		
USA IDLH	US IDLH (ppm)	75 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m3)	1,4 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	1 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m3)	1,4 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm	
United Kingdom	WEL TWA (mg/m³)	1,4 mg/m³	

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Hydrogen peroxide (7722-84	I-1)			
United Kingdom	WEL TWA (ppm)		1 ppm	
United Kingdom	WEL STEL (mg/m ³)		2,8 mg/m³	
United Kingdom	WEL STEL (ppm)		2 ppm	
Acetic acid (64-19-7)				
USA IDLH	US IDLH (ppm)		50 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m3)		25 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	NIOSH REL (TWA) (ppm)		
USA NIOSH	NIOSH REL (STEL) (mg/m3)		37 mg/m³	
USA NIOSH	NIOSH REL (STEL) (ppm)		15 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m3)		25 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)		10 ppm	
Peroxyacetic acid (79-21-0)				
USA ACGIH	ACGIH STEL (ppm)	0.4 ppr	n (inhalable fraction and vapor)	

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. Protective goggles. Protective goggles



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

11/4/2022	EN (Engli	lich) SDS Ref: 6528LIK
Log Kow	:	No data available
Log Pow	:	No data available
Viscosity, dynamic	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
(q) Relative vapour density at 20 °C	:	No data available
(r) Particle Character	-	No data available
(q) Relative vapour density at 20 °C	:	No data available
(p) Density	:	ca. 1,01 Specific Gravity
(o) Vapour pressure	:	No data available
(n) Partition coefficient n-octanol/water (log value)	:	No data available
(m) Solubility	:	Water: completely soluble
(I) Kinematic viscosity	:	No data available
(k) pH	:	1.5 - 2
(j) Decomposition temperature	:	No data available
(i) Auto-ignition temperature	:	No data available
(h) Flash point	:	No data available
(g) Lower and upper explosion limit	:	No data available
(f) Flammability (solid, gas)	:	Non flammable
(e) Boiling point	:	No data available
(d) Melting point/ Freezing point	:	No data available
(c) Odour		Acidic. Characteristic
(b) Colour	:	Colourless
(a) Physical state		Liquid

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Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		
9.2.1. Information with regard to physical ha	azard classes	
No additional information available		
9.2.2. Other safety characteristics		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Thermal decomposition generates: Corrosive vapo	burs	
10.2. Chemical stability		
Stable under normal conditions of use. Recommer	nded storage temperature	
10.3. Possibility of hazardous reactions Not established		
10.4. Conditions to avoid		
	e below 75 °F (24 °C). Take any precaution to avoid mixing with combustibles	
10.5. Incompatible materials		
Strong acid. Strong bases. Heavy metals. Iron. Co Chlorine. Formaldehyde	pper and its alloys. Brass. Aluminium. Caustic products. Combustible organic materials. Alkalis.	
10.6. Hazardous decomposition products		
Carbon monoxide. Carbon dioxide. Thermal decor	nposition generates: Corrosive vapours	
SECTION 11: Toxicological informatic	n	
11.1. Information on hazard classes as	defined in Regulation (EC) No 1272/2008	
Acute toxicity	Not classified	
Spor-Klenz [®] RTU ETO Process Packaged Col	d 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/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	
Operations and the second seco	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	
	שמשמע שה מצמוומטוט שמנמ, נהוס טומששווטמווטרו טרונכוזמ מוכ ווטו ווופו	

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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

11.2.1 Endocrine disrupting properties

No additional information available

SECTION 12: Ecological informa	tion
2.1. Toxicity	
cology - 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])
2.2. Persistence and degradability	
Spor-Klenz [®] RTU ETO Process Packag	ed Cold Sterilant
Persistence and degradability	Not established
2.3. Bioaccumulative potential	
Spor-Klenz [®] RTU ETO Process Packag	ed 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)
2.4. Mobility in soil	
o additional information available	
2.5. Results of PBT and vPvB asses	ssment
o additional information available	
2.6. Endocrine disrupting propertie	S
	: Avoid release to the environment
2.7. Other adverse effects	

No additional information available

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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/nationa regulations	
Ecology - waste materials	: Avoid release to the environment	
SECTION 14: Transport informatio	n	
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		
	nex II of MARPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory informati		
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 carr	ied out	
SECTION 16: Other information		
Revision Date	: 11/4/2022	
Sources of Key data	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending	
Other information	Regulation (EC) No 1907/2006	
Other information	: None	
Full text of H- and EUH-phrases::	Aguta taviaitu (inhalationuduat miat). Catagon: 0	
Acute Tox. 2 (Inhalation:dust,mist) Acute Tox. 3 (Oral)	Acute toxicity (inhalation:dust,mist), Category 2 Acute toxicity (oral), Category 3	
Acute Tox. 3 (Oral) Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation), Category 4	
Acute Tox. 4 (Initialition) Acute Tox. 4 (Oral)	Acute toxicity (initialition), 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	
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Flom Lig 2	Elemmetrie liquide Cotegory 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Org. Perox. D	Organic Peroxides, Type D	
Ox. Liq. 1	Oxidising Liquids, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
STOT SE 3	Specific target organ toxicity (single exposure), Category 3	
H226	Flammable liquid and vapour	
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	

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.