# Sterilex Ultra Step

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 2022-09-22
Revision date: 2023-03-23
Version: 2.0

## SECTION 1: Identification

### 1.1. Identification

| | | |
|---|---|---|
| Product form | : | Mixture |
| Product name | : | Sterilex Ultra Step |
| EPA Registration # | : | 63761-10 |

### 1.2. Recommended use and restrictions on use

| | | |
|---|---|---|
| Use of the substance/mixture | : | Disinfectant |

### 1.3. Supplier

**Manufacturer**
Sterilex LLC
111 Lake Front Dr
Hunt Valley, MD 21030 - USA
T 443-541-8800

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency number | : | ChemTel LLC (800)255-3924 (North America);<br>+1 (813)248-0585 (International) |

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS classification**

Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 1

### 2.2. GHS Label elements, including precautionary statements

**GHS labelling**

Hazard pictograms (GHS) :

GHS05

| | | |
|---|---|---|
| Signal word (GHS) | : | Danger |
| Hazard statements (GHS) | : | H315 - Causes skin irritation.<br>H318 - Causes serious eye damage. |
| Precautionary statements (GHS) | : | P264 - Wash hands, forearms and face thoroughly after handling.<br>P280 – Wear eye protection, face protection, protective clothing, protective gloves.<br>P302+P352 - If on skin: Wash with plenty of water.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 - Immediately call a poison center or doctor. |

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % |
|---|---|---|---|
| Sodium percarbonate | Carbonic acid disodium salt, compound with hydrogen peroxide (H2O2) (2:3) / Carbonic acid, disodium salt, compound with hydrogen peroxide (H2O2) (2:3) / Disodium carbonate, compound with hydrogen peroxide (2:3) / Sodium carbonate peroxide / Sodium carbonate peroxyhydrate / SODIUM CARBONATE PEROXIDE / Carbonic acid disodium salt, compound with hydrogen peroxide (2:3) / Carbonic acid, disodium salt, compound with hydrogen peroxide (2:3) / Sodium percarbonate peroxyhydrate / Carbonic acid sodium salt (1:2), compound with hydrogen peroxide (H2O2) (2:3) / Disodium carbonate, hydrogen peroxide (2:3) / Disodium peroxocarbonate / Compound of sodium carbonate with hydrogen peroxide (2:3) / Compound of sodium carbonate with hydrogen peroxide(2:3) | CAS-No.: 15630-89-4 | 7 - 13 |
| Disodium carbonate | Sodium carbonate / Carbonic acid, disodium salt / Soda ash / Sodium carbonate (2:1) / Sodium carbonate, anhydrous / Carbonic acid sodium salt (1:2) / SODIUM CARBONATE / Bisodium carbonate / Sodium carbonate anhydrous / sodium carbonate | CAS-No.: 497-19-8 | 3 - 7 |
| Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt | Tetrasodium ethylenediaminetetraacetate / Ethylenediaminetetraacetic acid, tetrasodium salt / N,N'-1,2-Ethanediylbis(N-(carboxymethyl)glycine) tetrasodium salt / Tetrasodium ethylene diamine tetraacetate / edetate sodium / Edetate sodium / Tetrasodium edetate / EDTA, tetrasodium / Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt / Tetrasodium salt of ethylenediaminetetraacetic acid / EDTA tetrasodium salt / TETRASODIUM EDTA / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4) / Tetrasodium 2,2',2'',2'''-(ethylenedinitrilo)tetraacetate | CAS-No.: 64-02-8 | 1 - 5 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Benzyl-C12-16-alkyldimethylammonium chloride / Quaternary ammonium compounds, benzylalkyl(C12-16)dimethyl, chlorides / Benzylkonium chloride / Alkyl (C12-16) dimethylbenzylammonium chloride / Benzyl[alkyl(C12-16)]dimethylammonium chloride / Alkyl(C12-16)dimethylbenzylammonium chloride / Benzyl-C12-16-alkyldimethyl, chlorides / Alkyl(C12-16)dimethylbenzyl ammonium chloride / Benzyl(C12-16) alkyldimethyl, chlorides / Benzyl-C12-16-alkyldimethyl, chloride / Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlorides / Alkyl(C12-16)(benzyl)(dimethyl)ammonium chloride | CAS-No.: 68424-85-1 | 1 - 5 |

***Chemical name, CAS number and/or exact concentration have been withheld as a trade secret**

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Oxygen. Chlorine compounds. Nitrogen oxides. Irritating fumes. Oxides of sodium.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray to cool exposed surfaces.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Collect spillage. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Avoid dust formation. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : If medical advice is needed, have product container or label at hand. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Avoid generating dust. Good housekeeping is important to prevent accumulation of dust. Formaldehyde and Ethylene oxide, are subject to the standards 29 CFR 1910.1048 and 1910.1047, which may contain specific requirements for handling including protective equipment, regulated areas, monitoring and medical surveillance. The employer should review the standard and assure compliance with applicable requirements.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep away from food, drink and animal feeding stuffs. Keep away from heat and direct sunlight.

Incompatible materials : Refer to Section 10 on Incompatible Materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Sterilex Ultra Step**

No additional information available

**Sodium percarbonate (15630-89-4)**

No additional information available

**Disodium carbonate (497-19-8)**

No additional information available

**Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8)**

No additional information available

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)**

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer´s product information on material suitability and material thickness.

**Eye protection:**

Wear eye/face protection

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

**Other information:**
Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | Powder. |
| Colour | : | Blue to light blue |
| Odour | : | Odourless |
| Odour threshold | : | No data available |
| pH | : | 8.7 – 9.7 |
| pH solution concentration | : | 1 % |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Flammability | : | Not flammable. |
| Vapour pressure | : | No data available |
| Relative vapour density at 20°C / 68 °F | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Soluble. |
| Partition coefficient n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | Product does not present an explosion hazard. |
| Oxidising properties | : | Not oxidizing. |

### 9.2. Other information

Bulk density : 1.155 g/mL
Other properties : Hygroscopic product.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Direct sunlight. Dust formation. Moisture. Incompatible materials.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxygen. Chlorine compounds. Nitrogen oxides. Irritating fumes. Oxides of sodium.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Not classified.

| Sterilex Ultra Step | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 inhalation rat | > 2 mg/l |

| Sodium percarbonate (15630-89-4) | |
|---|---|
| LD50 oral rat | 1034 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:EPA Guideline |
| ATE CA (oral) | 1034 mg/kg bodyweight |

| Disodium carbonate (497-19-8) | |
|---|---|
| LD50 oral rat | 4090 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:EPA 16 CFR 1500.40 |
| ATE CA (oral) | 4090 mg/kg bodyweight |

| Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8) | |
|---|---|
| LD50 oral rat | 1658 mg/kg |
| ATE CA (oral) | 1210 mg/kg bodyweight |

| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) | |
|---|---|
| LD50 oral rat | 426 mg/kg |
| ATE CA (oral) | 426 mg/kg bodyweight |

Skin corrosion/irritation : Causes skin irritation.
pH: 8.7 – 9.7

Serious eye damage/irritation : Causes serious eye damage.
pH: 8.7 – 9.7

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

STOT-repeated exposure : Not classified.

| Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8) | |
|---|---|
| LOAEC (inhalation, rat,dust/mist/fume, 90 days) | 0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| NOAEL (oral, rat, 90 days) | ≥ 500 mg/kg bodyweight Animal: rat |

Aspiration hazard : Not classified.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life.

| Sodium percarbonate (15630-89-4) | |
|---|---|
| LC50 - Fish [1] | 70.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 - Crustacea [1] | 4.9 mg/l Test organisms (species): Daphnia pulex |

| Disodium carbonate (497-19-8) | |
|---|---|
| LC50 - Fish [1] | 300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 - Crustacea [1] | 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 - Fish [2] | 310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 - Crustacea [2] | 200 – 227 mg/l Test organisms (species): Ceriodaphnia sp. |

| Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8) | |
|---|---|
| LC50 - Fish [1] | 41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 - Crustacea [1] | 140 mg/l Test organisms (species): Daphnia magna |
| LC50 - Fish [2] | 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 algae | 1.01 mg/l |

| Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt (64-02-8) | |
|---|---|
| LOEC (chronic) | 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | ≥ 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' |

### 12.2. Persistence and degradability

| Sterilex Ultra Step | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Sterilex Ultra Step | |
|---|---|
| Bioaccumulative potential | Not established. |

| Sodium percarbonate (15630-89-4) | |
|---|---|
| BCF - Fish [1] | (no bioaccumulation) |

| Disodium carbonate (497-19-8) | |
|---|---|
| BCF - Fish [1] | (no bioaccumulation) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**DOT**
Transport hazard class(es) (DOT) : Not applicable

**TDG**
Transport hazard class(es) (TDG) : Not applicable

**IMDG**
Transport hazard class(es) (IMDG) : Not applicable

**IATA**
Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

### 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 Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) - This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

## SECTION 16: Other information

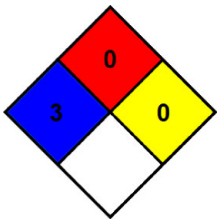
According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015
Revision date : 03/23/2023
Other information : None.

Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.




Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Indication of changes:**

| Section | Changed item | Change | Comments |
|---|---|---|---|
| 2 | GHS-US classification | Modified | V2.0 |
| 7.1 | Precautions for safe handling | Added | V2.0 |
| 16 | Hazard Rating / NFPA | Modified | V2.0 |

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023