

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations



Printing date: 02/09/2016

Revision: 02/09/2016

1 Identification

- **Product identifier**
- **Trade name:** Sterilex Ultra Powder
- **Article number:** 63761-5
- **Recommended use and restriction on use**
- **Recommended use:** Disinfectant
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Sterilex Corporation
111 Lake Front Drive
Hunt Valley, MD 21030
Phone: 443-541-8800
- **Emergency telephone number:**
ChemTel Inc.
+1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**
 
GHS05 GHS07
- **Signal word:** Danger
- **Hazard-determining components of labeling:**
disodium carbonate, compound with hydrogenperoxide (2:3)
Benzyldimethyltetradecylammonium chloride
tetrasodium ethylenediaminetetraacetate
- **Hazard statements:**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements:**
P260 Do not breathe dust.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

Classification system

NFPA ratings (scale 0 - 4)



Health = 3
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 3
Fire = 0
Reactivity = 0

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Components:

497-19-8	sodium carbonate ⚠ Eye Irrit. 2A, H319	49-51%
15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3) ⚠ Ox. Sol. 2, H272 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	28-31%
139-08-2	Benzyltrimethyltetradecylammonium chloride ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	9-10%
64-02-8	tetrasodium ethylenediaminetetraacetate ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	4-6%
25322-68-3	polyethylene glycol	4-6%

Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:

Brush off loose particles from skin.

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- Immediately remove any clothing soiled by the product.
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- Seek immediate medical help for blistering or open wounds.
- **After eye contact:**
 - Remove contact lenses if worn.
 - Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
 - Rinse out mouth and then drink plenty of water.
 - Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**
 - Coughing
 - Breathing difficulty
 - Gastric or intestinal disorders when ingested.
 - Strong caustic effect on skin and mucous membranes.
- **Danger:**
 - Harmful if swallowed.
 - May cause respiratory irritation.
 - May be harmful if inhaled.
 - Danger of gastric perforation.
 - Causes serious eye damage.
- **Indication of any immediate medical attention and special treatment needed:**
 - No relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
 - During heating or in case of fire poisonous gases are produced.
 - May intensify fire; oxidizer.
- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
 - Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
 - Take any precaution to avoid mixing with combustibles.
 - Ensure adequate ventilation.
- **Environmental precautions:**
 - Do not allow to enter sewers/ surface or ground water.
 - Toxic to aquatic life.

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· **Methods and material for containment and cleaning up:**

Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Clean the affected area carefully; suitable cleaners are:
Warm water

· **Reference to other sections:**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

Prevent formation of dust.
Use only in well ventilated areas.
Any deposit of dust which cannot be avoided must be regularly removed.

· **Information about protection against explosions and fires:**

Protect from heat.
Substance/product can reduce the ignition temperature of flammable substances.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.
Avoid storage near extreme heat, ignition sources or open flame.
Protect from humidity and water.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.
Store away from flammable substances.
Avoid direct contact with acids.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.
Keep containers tightly sealed.
This product is hygroscopic.

· **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

25322-68-3 polyethylene glycol

WEEL (USA)	Long-term value: 10 mg/m ³ (H); MW>200
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Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.**Breathing equipment:**

Not required under normal conditions of use.

For spills, respiratory protection may be advisable.

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

For the permanent contact gloves made of the following materials are suitable:

Neoprene gloves

Nitrile rubber, NBR

Eye protection:

Safety glasses

Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

Limitation and supervision of exposure into the environment

No relevant information available.

Risk management measures See Section 7 for additional information.**9 Physical and chemical properties****Information on basic physical and chemical properties****Appearance:**

Form:

Powder

Color:

White

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· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value (10 g/l) at 20 °C (68 °F):	9.0 - 11.2 (1% aqueous solution)
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties:	Oxidizer
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density:	Not determined.
· Vapor density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
To avoid thermal decomposition, do not overheat.
- **Possibility of hazardous reactions:**
Reacts with flammable substances.
Toxic fumes may be released if heated above the decomposition point.
Exothermic reaction with acids.

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As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

May intensify fire; oxidizer.

Conditions to avoid:

Take any precaution to avoid mixing with combustibles.

Avoid direct contact with acids.

Incompatible materials: No relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Oxygen

Chlorine compounds

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

497-19-8 sodium carbonate

Oral LD50 4090 mg/kg (rat)

15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

Oral LD50 800 -1000 mg/kg (rat)

Primary irritant effect:

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye: Strong caustic effect.

Sensitization: No sensitizing effects known.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

Acute effects (acute toxicity, irritation and corrosivity):

Causes serious eye damage.

Harmful if swallowed.

Repeated dose toxicity: No relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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

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

STOT-single exposure: Based on available data, the classification criteria are not met.

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- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity** Toxic to aquatic life.
- **Persistence and degradability** Biodegradable.
- **Bioaccumulative potential:** Does not accumulate in organisms
- **Mobility in soil:** No relevant information available.
- **Ecotoxical effects:**
- **Remark:** Toxic for algae
- **Additional ecological information**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Toxic for aquatic organisms
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1759

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UN proper shipping name

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· DOT	Corrosive solids, n.o.s. (Quaternary ammonium compound)
· ADR	1759 CORROSIVE SOLID, N.O.S. (Quaternary ammonium compound)
· IMDG	CORROSIVE SOLID, N.O.S. (Quaternary ammonium compound)
· IATA	Corrosive solid, n.o.s. (Quaternary ammonium compound)

Transport hazard class(es)

· DOT



· Class	8 Corrosive substances
· Label	8

· ADR, IMDG, IATA



· Class	8 Corrosive substances
· Label	8

Packing group

· DOT, ADR, IMDG, IATA III

Environmental hazards

· Marine pollutant: No

Special precautions for user

Warning: Corrosive substances

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:
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None of the ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency):
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EPA Product Registration #: 63761-5.

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

CORROSIVE

Causes irreversible eye damage and skin burns.
--

Harmful if swallowed.

Harmful in contact with skin.

Harmful by inhalation.

139-08-2 Benzyldimethyltetradecylammonium chloride
--

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

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- Canada
- Canadian substance listings

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

· Canadian Ingredient Disclosure list (limit 1%):

497-19-8 | sodium carbonate

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 02/09/2016 / -

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

· Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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