


# Safety Data Sheet

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

Printing date: 01/09/2017


Revision: 01/09/2017

## 1 Identification

- **Product identifier**
- **Trade name:** 
- **Article number:** DIN - 02402432
- **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 LLC  
111 Lake Front Drive  
Hunt Valley, MD 21030  
Phone: 443-541-8800
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- **Additional information:**  
Concentrated product is corrosive as shown in this document. When diluted at least 1:1 (50% or less solution) with water, product is non-hazardous.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**  


GHS05
- **Signal word:** Danger
- **Hazard statements:**  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements:**

P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P363	Wash contaminated clothing before reuse.

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

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

· **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:**

7722-84-1	hydrogen peroxide	5.5-7.2%
	 Ox. Liq. 1, H271  Skin Corr. 1A, H314  Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335	
85409-23-0	Alkyl dimethyl ethyl benzyl ammonium chloride	2.5-3.5%
	 Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302	
68391-01-5	Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride	2.5-3.5%
	 Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302	

· **Additional information:**

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

For the listed ingredient(s), the identity and/or 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.

· **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

· **After eye contact:**

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

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

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## 7 Handling and storage

### · Handling

#### · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

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

Keep respiratory protective device available.

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

#### · Storage

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

Avoid storage near extreme heat, ignition sources or open flame.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

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

Avoid direct contact with oxidizing agents and strong acids.

#### · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

#### · 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:

#### 7722-84-1 hydrogen peroxide

PEL (USA) Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

REL (USA) Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

TLV (USA) Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

EL (Canada) Long-term value: 1 ppm

EV (Canada) Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

LMPE (Mexico) Long-term value: 1 ppm

A3

### · 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.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

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- **Engineering controls:** No relevant information available.
- **Breathing equipment:**  
Not required under normal conditions of use.  
Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.  
For spills, respiratory protection may be advisable.
- **Protection of hands:**



Protective gloves

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

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing
- **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:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined.

- **pH-value:** 3.01 - 5.86
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** 100 °C (212 °F)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Auto-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits**

Lower:	Not determined.
Upper:	Not determined.

- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

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- **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.345 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.

- **Solubility in / Miscibility with Water:** Fully miscible.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **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**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong oxidizing agents.  
Reacts with certain metals.
- **Conditions to avoid**  
Keep away from heat and direct sunlight.  
Prevent from drying out.  
Avoid direct contact with oxidizing agents and strong acids.
- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Chlorine compounds

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 7722-84-1 hydrogen peroxide

Oral	LD50	376 mg/kg (rat)
Inhalative	LC50/4h	(rat)

### 85409-23-0 Alkyl dimethyl ethyl benzyl ammonium chloride

Oral	LD50	350 mg/kg (rat)
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## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

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.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA**

UN1760

- **UN proper shipping name**

- **DOT**

Corrosive Liquids, n.o.s. (Quaternary ammonium compound)

- **ADR, IMDG**

CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compound)

- **IATA**

Corrosive Liquid, n.o.s. (Quaternary ammonium compound)

- **Transport hazard class(es)**

- **DOT**



- **Class**

8 Corrosive substances

- **Label**

8

- **ADR**



- **Class**

8 (C9) Corrosive substances

- **Label**

8

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## · 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

· Danger code (Kemler): 80

· EMS Number: F-A,S-B

## · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## · Transport/Additional information:

### · DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

### · ADR



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

### · IMDG



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

### · IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

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· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **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** 01/09/2017 / -

· **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

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Ox. Liq. 1: Oxidizing liquids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **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., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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