

Issuing Date 04-Sep-2008

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Sterilex Ultra-Kleen CW-502
UN-No UN1759
Recommended Use Biocide
EPA Registration Number 63761-2

Supplier Address

Sterilex Corporation
 11409 Cronhill Drive, Suite L
 Owings Mills, MD 21117

Phone Number: 1-800-511-1659

Company Emergency Phone Number 1-800-255-3924

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Corrosive
 Harmful by inhalation, in contact with skin and if swallowed
 The product causes burns of eyes, skin and mucous membranes
 Oxidizer
 Contact with combustible material may cause fire

Appearance White

Physical State Solid, Powder

Odor Odorless

Potential Health Effects

Principle Routes of Exposure

Inhalation, Eye contact, Skin contact, Ingestion.

Acute Toxicity

Eyes
Skin

Corrosive to the eyes and may cause severe damage including blindness.
 Harmful in contact with skin. Contact causes severe skin irritation and possible burns. Contact with moist skin causes skin burns.
Inhalation Harmful by inhalation. Contact with moist mucous membranes of the respiratory system can cause caustic condition resulting in burns.
Ingestion Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tract. Can burn mouth, throat, and stomach.

Chronic Effects

Avoid repeated exposure. Possible risks of irreversible effects.

Aggravated Medical Conditions

Skin disorders. Respiratory disorders.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|---------------|--------|----------|
|---------------|--------|----------|

| | | |
|--|------------|-------------|
| Sodium carbonate | 497-19-8 | 53.47-57 |
| Sodium percarbonate | 15630-89-4 | 28.85-30.64 |
| Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride | 139-08-2 | 9.02-9.98 |
| Tetrasodium EDTA | 64-02-8 | 4.75-5.25 |

4. FIRST AID MEASURES

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| General Advice | Call a poison control center or doctor for treatment advice. Have the product containers or label with you when calling a poison control center or doctor, or going for treatment. |
| Eye Contact | Call a poison control center or doctor for treatment advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| Skin Contact | Call a poison control center or doctor for treatment advice. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| Inhalation | Move victim to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. |
| Ingestion | Call a physician or Poison Control Center. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. |
| Notes to Physician | Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage. |
| Protection of First-aiders | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. |

5. FIRE-FIGHTING MEASURES

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|--|---|-----------------------|--------------------------|---|
| Flammable Properties | Noncombustible. Contact with combustible material may cause fire. | | | |
| Flash Point | Not applicable | | | |
| Suitable Extinguishing Media | Dry chemical, CO ₂ or water spray. Dry chemical, CO ₂ , alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material. | | | |
| <u>Explosion Data</u> | | | | |
| Sensitivity to Mechanical Impact | None | | | |
| Sensitivity to Static Discharge | Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. | | | |
| Specific Hazards Arising from the Chemical | May ignite combustibles (wood paper, oil, clothing, etc.). | | | |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear | | | |
| <u>NFPA</u> | Health Hazard 3 | Flammability 0 | Stability 1 | Physical and Chemical Hazards OX |
| <u>HMIS</u> | Health Hazard 3* | Flammability 0 | Physical Hazard 0 | Personal Protection - |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Avoid dust formation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. |
| Methods for Containment | Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. |
| Methods for Cleaning Up | Use personal protective equipment. Avoid dust formation. Take precautionary measures against static discharges. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. |
| Other Information | DO NOT GET WATER INSIDE CONTAINERS. |

7. HANDLING AND STORAGE

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| Handling | Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Use only in area provided with appropriate exhaust ventilation. Fine dust dispersed in air may ignite. Do not eat, drink or smoke when using this product. |
| Storage | Keep container tightly closed. Keep out of the reach of children. Keep in properly labeled containers. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Product should be stored below 100°F. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| Engineering Measures | Showers Eyewash stations Ventilation systems |
| <u>Personal Protective Equipment</u> | |
| Eye/Face Protection | Tightly fitting safety goggles. Face-shield. |
| Skin and Body Protection | Wear protective gloves/clothing. |
| Respiratory Protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations |
| Hygiene Measures | Wear suitable gloves and eye/face protection. Provide regular cleaning of equipment, work area and clothing. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|----------------------------------|---------------------------------|--------------------------|
| Appearance | White. | Odor | Odorless. |
| Odor Threshold | No information available | Physical State | Solid, Powder |
| pH | 9.0 - 11.2 (1% aqueous solution) | Autoignition Temperature | No information available |
| Flash Point | Not applicable | Boiling Point/Range | Not applicable |
| Decomposition Temperature | No information available | Explosion Limits | No information available |
| Melting Point/Range | Not determined | Solubility | No information available |
| Flammability Limits in Air | No information available | Vapor Pressure | Not applicable |
| Water Solubility | Appreciable | VOC Content | Not applicable |
| Evaporation Rate | No information available | | |
| Vapor Density | No data available | | |

10. STABILITY AND REACTIVITY

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| Stability | Stable under recommended storage conditions. |
| Incompatible Products | Combustible materials. Water. Acids. Bases. Strong reducing agents. Salts of Heavy Metals. |
| Conditions to Avoid | Heat, flames and sparks. Dust formation. |
| Hazardous Decomposition Products | Decomposition may release steam and heat. Thermal decomposition can lead to release of irritating gases and vapors. |
| Hazardous Polymerization | Hazardous polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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|-------------------------------------|--|
| Product Information | The below results are based on testing performed on representative samples of a mixture similar to this product. |
| Irritation | Skin Irritation: Powder is corrosive to skin. Eye Irritation: Powder is corrosive to eyes. |
| LD50 Oral VALUE (mg/kg) | 2,000 mg/kg |
| LD50 Dermal VALUE | Not performed. |
| LC50 Inhalation (DUST) VALUE | Not performed. |

Chronic Toxicity

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|-----------------------------|--|
| Chronic Toxicity | Avoid repeated exposure. Possible risks of irreversible effects. |
| Target Organ Effects | Eyes, Skin, Respiratory system. |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---------------------|-----------------------|--|----------------------------|----------------------------|
| Sodium carbonate | EC50 = 242 mg/L 120 h | LC50= 300 mg/L Lepomis macrochirus 96 h | | EC50 = 265 mg/L 48 h |
| Sodium percarbonate | EC50 = 70 mg/L 240 h | LC50= 70.7 mg/L Pimephales promelas 96 h | | EC50 = 4.9 mg/L 48 h |
| Tetrasodium EDTA | EC50 = 1.01 mg/L 72 h | LC50= 41 mg/L Lepomis macrochirus 96 h LC50= 59.8 mg/L Pimephales promelas 96 h | | EC50 = 610 mg/L 24 h |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on proper disposal of waste product.

Contaminated Packaging

Dispose of in accordance with local regulations

| Chemical Name | California Hazardous Waste Status |
|---------------------|-----------------------------------|
| Sodium carbonate | Corrosive |
| Sodium percarbonate | Ignitable |

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| 14. TRANSPORT INFORMATION |
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Note This corrosive material, as per 49 CFR §173.154 and when the product meets the packaging requirements of 49 CFR §173.154 (b)(2) [inner packagings not over 5.0 kg (11lbs) net capacity each for, and packed in strong outer packagings] is excepted from labeling and placarding requirements so long as the material is not offered for transport by aircraft.

DOT

| | |
|--|--|
| Proper Shipping Name | Corrosive solids, n.o.s. |
| Hazard Class | 8 |
| UN-No | UN1759 |
| Packing Group | III |
| Description | UN1759, Corrosive solids, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8, PG III |
| Emergency Response Guide Number | 154 |

TDG

| | |
|-----------------------------|--|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| UN-No | UN1759 |
| Packing Group | III |
| Description | UN1759, CORROSIVE SOLID, N.O.S., 8, PG III |

MEX

| | |
|-----------------------------|---|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| UN-No | UN1759 |
| Packing Group | III |
| Description | UN1759, Corrosive solid, n.o.s., 8, III |

ICAO

| | |
|-----------------------------|---|
| UN-No | UN1759 |
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN1759, Corrosive solid, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8, PG III |

IATA

| | |
|-----------------------------|---|
| UN-No | UN1759 |
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| Packing Group | III |
| ERG Code | 8L |
| Description | UN1759, Corrosive solid, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8, PG III |

IMDG/IMO

| | |
|-----------------------------|--|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| Subsidiary Class | + |
| UN-No | UN1759 |
| Packing Group | III |
| EmS No. | F-A, S-B |
| Description | UN1759, Corrosive solid, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8(+), PG III |

RID

| | |
|-----------------------------|---|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| UN-No | UN1759 |
| Packing Group | III |
| Classification Code | C10 |
| Description | UN1759, Corrosive solid, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8, III, RID |
| ADR/RID-Labels | 8 |

ADR

| | |
|-----------------------------|--|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| UN-No | UN1759 |
| Packing Group | III |
| Classification Code | C10 |
| Description | UN1759, Corrosive solid, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8, III |

ADN

| | |
|-----------------------------|--|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class | 8 |
| Packing Group | III |
| Classification Code | C10 |
| Special Provisions | 274 |
| Description | UN1759, Corrosive solid, n.o.s. (Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride), 8, III |
| Hazard Labels | 8 |
| Limited Quantity | LQ24 |

WHMIS Hazard Class

D2B Toxic materials

E Corrosive material

**16. OTHER INFORMATION****Issuing Date** 04-Sep-2008**Revision Date****Revision Note** No information available**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet