Material Safety Data Sheet

Issuing Date 04-Sep-2008 **Revision Date** **Revision Number** 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **Sterilex Ultra-Kleen CW-502 (Low Foam)**

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 Corrosive to the eyes and may cause severe damage including blindness.

Skin 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	52.5-55.97
Sodium percarbonate	15630-89-4	28.85-30.64
Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride	139-08-2	9.03-9.98
Tetrasodium EDTA	64-02-8	4.75-5.25

4. FIRST AID MEASURES

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

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.

Explosion Data
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

NFPA	**Health Hazard** 3	**Flammability** 0	**Stability** 1	**Physical and Chemical Hazards** OX
HMIS	**Health Hazard** 3*	**Flammability** 0	**Physical Hazard** 0	**Personal Protection** -

6. ACCIDENTAL RELEASE MEASURES

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

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

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

Personal Protective Equipment

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	9-11.2 (1% aqueous solution)		
Flash Point	Not applicable	**Autoignition Temperature**	No information available
Decomposition Temperature	No information available	**Boiling Point/Range**	Not applicable
Melting Point/Range	Not determined		
Flammability Limits in Air	No information available	**Explosion Limits**	No information available
Water Solubility	Appreciable	**Solubility**	No information available
Evaporation Rate	No information available	**Vapor Pressure**	Not applicable
Vapor Density	No data available	**VOC Content**	Not applicable

10. STABILITY AND REACTIVITY

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

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

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	Complies
ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

Mexico - Grade Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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