

Issuing Date 18-Sep-2008

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Ultra-Kleen Liquid Cleaner Solution 2

UN-No UN3266

Supplier Address

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

Telephone: 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

Appearance Clear, colorless solution

Physical State Liquid

Odor Odorless

Potential Health Effects
Principle Routes of Exposure Inhalation, Skin contact, Eye contact.

Acute Toxicity
Eyes

Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Risk of serious damage to eyes.

Skin

Harmful in contact with skin. Contact causes severe skin irritation and possible burns.

Inhalation

Inhalation of vapors in high concentration may cause irritation of respiratory system. Harmful by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate.

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.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium carbonate	497-19-8	5.70 - 6.30
Potassium carbonate	584-08-7	5.70 - 6.30
Tetrasodium EDTA	64-02-8	4.69 - 5.19

4. FIRST AID MEASURES

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Inhalation	Move 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 immediately. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Notes to Physician	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO ₂), Hydrocarbons.			
<u>Explosion Data</u>				
Sensitivity to Mechanical Impact	None			
Sensitivity to Static Discharge	None			
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 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal Protection -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.
Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains.
Other Information	Refer to protective measures listed in Sections 7 and 8.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

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
<u>Personal Protective Equipment</u>	
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Protective gloves.
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	When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless solution.	Odor	Odorless.
Odor Threshold	No information available	Physical State	Liquid
pH	10 - 14		
Flash Point	Not applicable	Autoignition Temperature	Not combustible
Decomposition Temperature	Not applicable	Boiling Point/Range	>100°C / >212°F
Melting Point/Range	Not applicable		
Flammability Limits in Air	Not applicable	Explosion Limits	Not applicable
Specific Gravity	1.15-1.20	Water Solubility	Completely soluble
Solubility	Not applicable	Evaporation Rate	No information available
Vapor Pressure	No data available	Vapor Density	No data available
VOC Content	Not applicable		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Hazardous Decomposition Products	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

Irritation Causes severe irritation and or burns.

Chronic Toxicity

Chronic Toxicity Avoid repeated exposure. Possible risks of irreversible effects.

Target Organ Effects Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

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
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 This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

US EPA Waste Number D002

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium carbonate	Corrosive

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
UN-No	UN3266
Packing Group	III
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate, Sodium carbonate), 8, PG III
Emergency Response Guide Number	154

TDG

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
UN-No	UN3266
Packing Group	III
Description	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium carbonate, Sodium carbonate), 8, UN3266, PG III

MEX

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
UN-No	UN3266
Packing Group	III
Description	UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate, Sodium carbonate), 8, III

ICAO

UN-No	UN3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
Packing Group	III
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate, Sodium carbonate), 8, PG III

IATA

UN-No	UN3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
Packing Group	III
ERG Code	8L
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate, Sodium carbonate), 8, PG III

IMDG/IMO

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
Subsidiary Class	+
UN-No	UN3266
Packing Group	III
EmS No.	F-A, S-B
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate, Sodium carbonate), 8(+), PG III

RID

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8

UN-No	UN3266
Packing Group	III
Classification Code	C5
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate, Sodium carbonate),8,III,RID
ADR/RID-Labels	8

ADR

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
UN-No	UN3266
Packing Group	III
Classification Code	C5
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate, Sodium carbonate),8,III

ADN

Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class	8
Packing Group	III
Classification Code	C5
Special Provisions	274
Description	UN3266, Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate, Sodium carbonate),8,III
Hazard Labels	8
Limited Quantity	LQ7

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
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	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde	100 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Formaldehyde	100 lb	100 lb

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Formaldehyde	50-00-0	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Formaldehyde	X	X	X	X	X
Nitritotriacetic acid trisodium salt	X				

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Formaldehyde	A2	Mexico: Ceiling= 3 mg/m ³ Mexico: Ceiling= 2 ppm

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

E Corrosive material



Chemical Name	NPRI
Formaldehyde	X

16. OTHER INFORMATION

Issuing Date 02-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