

Issuing Date 03-Sep-2008

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Sterilex Ultra Activator Solution  
**UN-No** UN3266  
**Recommended Use** Adjuvant For Sterilex Ultra Disinfectant Cleaner Solution

### 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

|                                   |  |
|-----------------------------------|--|
| <b>General Advice</b>             | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
| <b>Eye Contact</b>                | 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.  |
| <b>Skin Contact</b>               | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.   |
| <b>Inhalation</b>                 | Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.   |
| <b>Ingestion</b>                  | 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.   |
| <b>Notes to Physician</b>         | 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. |
| <b>Protection of First-aiders</b> | Use personal protective equipment. Avoid contact with skin, eyes and clothing.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |                       |                          |  |
|--|--|-----------------------|--------------------------|--|
| <b>Flammable Properties</b>                                  | Not flammable.   |                       |                          |  |
| <b>Flash Point</b>   | Not applicable   |                       |                          |  |
| <b>Suitable Extinguishing Media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                |                       |                          |  |
| <b>Hazardous Combustion Products</b>                         | Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), Hydrocarbons.  |                       |                          |  |
| <b>Explosion Data</b>  |  |                       |                          |  |
| <b>Sensitivity to Mechanical Impact</b>                      | None   |                       |                          |  |
| <b>Sensitivity to Static Discharge</b>                       | None   |                       |                          |  |
| <b>Protective Equipment and Precautions for Firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |                       |                          |  |
| <b><u>NFPA</u></b>   | <b>Health Hazard 3</b>   | <b>Flammability 0</b> | <b>Stability 0</b>       | <b>Physical and Chemical Hazards -</b> |
| <b><u>HMIS</u></b>   | <b>Health Hazard 3</b>   | <b>Flammability 0</b> | <b>Physical Hazard 0</b> | <b>Personal Protection -</b>           |

## 6. ACCIDENTAL RELEASE MEASURES

|                                |  |
|--------------------------------|--|
| <b>Personal Precautions</b>    | 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.                                 |
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.   |
| <b>Methods for Cleaning Up</b> | 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. |
| <b>Other Information</b>       | Refer to protective measures listed in Sections 7 and 8.   |

## 7. HANDLING AND STORAGE

|                 |  |
|-----------------|--|
| <b>Handling</b> | 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. |
| <b>Storage</b>  | 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

|   |  |
|---|--|
| <b>Exposure Guidelines</b>                  | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.  |
| <b>Engineering Measures</b>                 | Showers<br>Eyewash stations<br>Ventilation systems   |
| <b><u>Personal Protective Equipment</u></b> |  |
| <b>Eye/Face Protection</b>                  | Tightly fitting safety goggles.  |
| <b>Skin and Body Protection</b>             | Protective gloves.   |
| <b>Respiratory Protection</b>               | 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.  |
| <b>Hygiene Measures</b>                     | 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

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

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Stability</b>                        | Stable under recommended storage conditions.                                  |
| <b>Incompatible Products</b>            | Incompatible with strong acids and bases. Incompatible with oxidizing agents. |
| <b>Conditions to Avoid</b>              | Exposure to air or moisture over prolonged periods.                           |
| <b>Hazardous Decomposition Products</b> | Thermal decomposition can lead to release of irritating gases and vapors.     |
| <b>Hazardous Polymerization</b>         | 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<br>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 not a hazardous waste according to Federal regulations (40 CFR 261). 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.

| <b>Chemical Name</b> | <b>California Hazardous Waste Status</b> |
|----------------------|--|
| Sodium carbonate     | Corrosive                                |

|                                  |
|----------------------------------|
| <b>14. TRANSPORT INFORMATION</b> |
|----------------------------------|

**DOT**

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

**TDG**

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

**MEX**

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

**ICAO**

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

**IATA**

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

**IMDG/IMO**

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

**RID**

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | Corrosive liquid, basic, inorganic, n.o.s. |
| <b>Hazard Class</b>         | 8  |

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

**ADR**

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

**ADN**

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

## 15. REGULATORY INFORMATION

### International Inventories

|               |          |
|---------------|----------|
| <b>TSCA</b>   | Complies |
| <b>DSL</b>    | Complies |
| <b>EINECS</b> | Complies |
| <b>ENCS</b>   | Complies |
| <b>IECSC</b>  | Complies |
| <b>KECL</b>   | Complies |
| <b>PICCS</b>  | Complies |
| <b>AICS</b>   | 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

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | 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 <sup>3</sup><br>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**