



TM

Leading  
Environmental  
Enhancement for  
Facilities



# Neutral Lemon Disinfectant Cleaner Concentrate

A multi-purpose, neutral pH, germicidal detergent and deodorant effective in hard water up to 400 ppm (calculated as  $\text{CaCO}_3$ ) in the presence of a moderate amount of soil (5% organic serum) according to the AOAC Use-dilution Test. Disinfects, cleans and deodorizes in one labor-saving step.

Recommended for use in hospitals, nursing homes, schools, colleges, commercial and industrial institutions, office buildings, veterinary clinics, animal life science laboratories, zoos, pet shops, airports, kennels, hotels, motels, breeding establishments, grooming establishments and households.

Disinfects, cleans, and deodorizes the following hard, nonporous, inanimate surfaces: floors, walls, (non-medical) metal surfaces, (non-medical) stainless steel surfaces, glazed porcelain, plastic surfaces (such as polypropylene, polystyrene, etc.).

**DILUTION: 1:64**

**2 OUNCES PER GALLON OF WATER** (660 ppm quat)

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product is not for use on medical device surfaces.

**DISINFECTION / CLEANING / DEODORIZING DIRECTIONS:** Remove heavy soil deposits from surface, then thoroughly wet surface with a use-solution of 2 ounces of the concentrate per gallon of water. The use-solution can be applied with a cloth, mop, sponge, or coarse spray or by soaking. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface, rub with a brush, cloth or sponge. Do not breathe spray. Let solution remain on surface for a minimum of 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.

Food contact surfaces must be thoroughly rinsed with potable water. This product must not be used to clean the following food contact surfaces: utensils, glassware and dishes.

**BACTERICIDAL STABILITY OF USE-DILUTION:** Tests confirm that this product, when diluted in 400 ppm hard water, remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* for up to 3 months when stored in a sealed container such as a spray bottle. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

**TOILET BOWLS:** Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting. Clean by applying diluted solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first pre-clean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in three ounces of the diluted solution. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush.

### FUNGICIDAL DIRECTIONS:

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities follow disinfection directions.

**MILDEWSTATIC INSTRUCTIONS:** Will effectively control the growth of mold and mildew, plus the odors caused by them when applied to hard, nonporous surfaces such as walls, floors and table tops. Apply use-solution of 2 ounces per gallon of water with a cloth, mop, sponge or coarse spray. Make sure to wet all surfaces completely. Let air dry. Repeat application weekly or when growth reappears.

**\*KILLS HIV-1 (AIDS VIRUS) AND HBV (HEPATITIS B VIRUS) AND HCV (HEPATITIS C VIRUS) ON PRECLEANED, ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood / body fluids, and in which the surfaces / objects likely to be soiled with blood / body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 (AIDS VIRUS) OR HBV OR HCV OF SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS:**

**Personal Protection:** Disposable protective gloves, gowns, face masks or eye coverings, as appropriate, must be worn during all cleaning of blood / body fluids and during decontamination procedures.

**Cleaning Procedures:** Blood / body fluids must be thoroughly cleaned from surfaces / objects before application of disinfectant.

Color: Pink  
Odor: Lemon  
pH: 7.2 - 8.2  
Base: Quaternary ammonium chloride  
Viscosity: Water thin  
Foam: Moderate  
Abrasives: None  
Solubility: Complete with water

Dilution: 2 oz./gal. (1:64)  
Detergency: Excellent  
Rinsability: Excellen  
Flash Point: None (waterbased)  
Hard Water Tolerance: 400 ppm  
Biodegradability: Complete  
Storage/Stability: 2 years  
Weight per Gallon: 8.25 lbs./gal.  
Freeze / Thaw Stability: Keep from freezing

# MATERIAL SAFETY DATA SHEET

Prepared by: Regulatory Affairs Dept.

(Prepared According to 29 CFR 1910.1200)

N/A= Not Applicable  
Effective Date: 03/06 Revision: n/a

## SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

**Product Name:** Ready-to-Use Neutral Disinfectant  
**Generic Name:** RTU Disinfectant and Detergent  
**Chemical Family:** Quaternary Detergent Blend

**Supplier's Name:** Leading Environmental Enhancements for Facilities

**Supplier's Address:** 280 Seward Drive, Rutland, VT, 05701

Diluted according to label directions ONLY

**Supplier's Phone #:**

## SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Dimethyl Benzyl Ammonium Chloride	8001-54-5	< 0.1			
Didecyl Dimethyl Ammonium Chloride	7173-51-5	< 0.1			
Octyl Dimethyl Amine Oxide	2605-78-9	< 0.1			
Trisodium Salt of EDTA	150-38-9	< 0.1			
Perfume Oil	N/A	Trace			
Dye	N/A	Trace			

## SECTION 3-PHYSICAL DATA

**Boiling Point (°F):** 212 F.  
**Vapor Pressure:** 20mm Hg @ 68 F.  
**% Volatile:** 98+  
**Solubility in Water:** Complete  
**Physical Description:** Thin light pink liquid with lemon odor.

**Specific Gravity:** 1.000  
**Vapor Density (Air=1):** >1  
**pH:** 7.0 - 7.5

**Evaporation Rate (Water=1):** <1

## SECTION 4-FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** N/A  
**Upper Explosion Limit:** N/A  
**Extinguishing Media:** N/A  
**Special Firefighting Procedures:** Non Flammable  
**Unusual Fire and Explosion Hazards:** N/A

## SECTION 5-REACTIVITY DATA

**Stability:** Stable

**Hazards Decomposition Products:** Will not occur.

**Hazardous Polymerization:** None

**Incompatibility (Materials to Avoid):** None

## SECTION 6-STORAGE AND HANDLING INFORMATION

May cause eye irritation with direct contact. Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of mists. Use in well-ventilated area.

## SECTION 7-HEALTH HAZARDS AND FIRST AID

### Effects of Overexposure:

**Skin:** May cause mild skin irritation with prolonged or repeated contact.  
**Eyes:** Eye irritant. Liquid and mists may cause redness, irritation, tearing..  
**Inhalation:** Mists may be irritating to throat, nose, and lungs.  
**Ingestion:** Irritating to the mouth, throat, and gastrointestinal system.

### First Aid Procedures:

**Skin:** Remove contaminated clothing. Flush affected areas with large quantities of water. Seek medical attention if irritation persists.  
**Eyes:** Flush with large quantities of water, holding eyelids open. Seek medical attention if irritation persists.  
**Inhalation:** Remove victim to fresh air and monitor. Seek medical attention if symptoms persist.  
**Ingestion:** Give large quantities of milk and water. Seek medical attention immediately.

## SECTION 8-SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** No special requirements. Avoid breathing mists.  
**Ventilation Requirements:** Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.  
**Protective Gloves:** Chemical proof, rubber or neoprene.  
**Eye Protection:** Safety goggles recommended when spraying product.  
**Other Protective Equipment:** Eyewash station should be provided nearby.

## SECTION 9-SPILL OR LEAK PROCEDURES

**Steps to be taken in Case Material is Released or Spilled:** Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.  
**Waste Disposal Method:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

## SECTION 10-REGULATORY INFORMATION

### SARA Title III - Section 311/312 -Hazard Categories:

No - Fire Hazard  
No - Sudden Release of Pressure Hazard  
No - Reactivity Hazard  
Yes - Immediate (acute) Health Hazard  
No - Delayed (chronic) Health Hazard

### Shipping Information:

FOR CONTAINERS > 1 Gallon : Cleaning Compound

FOR 1 GALLON CONTAINERS :Cleaning Compound

FOR CONTAINERS < 1 GALLON : Cleaning Compound

### HMIS Hazardous Materials Identification System

Health	1
Flammability	0
Reactivity	0
Personal Protection	A

**FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION:** CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
	None	

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
	None	

## SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from improper handling and use of this product