



handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

**Exposure Guidelines:** Exposure limits are recommended worker breathing limits. The following limits apply to this material:

<u>INGREDIENTS</u>	<u>LIMITS</u>	<u>INGREDIENTS</u>	<u>LIMITS</u>
Water	None established	Isopropyl Alcohol	400 PPM OSHA/ AACGIH TWA
EDTA salt	None established	Potassium Hydroxide	2 mg / m3 TLV / TWA
Sodium dodecylbenzene Sulfonate	None established	O-benzyl-p-chlorophenol	None established
Para Tertiary -Amyphenol	None established	orthophenyphenol	None established

**Engineering Controls:** Normal room ventilation.

**Respiratory Controls:** For reasonable uses of this material, respiratory protection should not be necessary.

**Eye/Face Protection:** Safety glasses to protect from splashing.

**Skin Protection:** Rubber or plastic gloves to avoid drying and irritation to the skin.

**Work Practice Control:** Normal hygiene in the work area should be taken when working with or handling this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Clear liquid.

**pH:** approximately 12.9 as concentrate

**Water Solubility:** Soluble

**Freezing Point Range:** Not established

**Vapor Pressure:** Not established

**Flash Point:** 110-115 ° F **Method:** Pensky Martin Closed Cup

**Flammability limits (vol/vol %): Lower:** No Data **Upper:** No Data

**Percent volatile by volume:** Approx. 60 % by volume **V.O.C. (calculated):** 1.71 lbs./ gal or 204.9 grams / l.

**Color:** light brown

**Specific Gravity:** 1.02

**Melting Point Range:** Not available

**Boiling Point:** approx. 210 ° F.

**Vapor Density:** Not established

**Odor:** Slight Aromatic

**Odor Threshold:** Not established

**Evaporation Rate:** Not available

**Partition Coefficient; n-octanol / water:** Not available

**Decomposition Temperature:** Not available

**Auto Ignition Temperature:** Not available

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to be avoided:** Keep away from heat and open flames

**Materials/Chemicals to be avoided:** Strong acids and oxidizing agents

**Decomposition Type:** Thermal Oxides of carbon and nitrogen and sulfur

**Possibility of Hazardous Reactions:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:** Irritating to eyes.

**Acute Skin Irritation:** Irritating to skin.

**Acute Dermal Toxicity:** No test data found for product.

**Acute Respiratory Irritation:** No test data found for product.

**Acute Inhalation Toxicity:** No test data found for product.

**Acute Oral Toxicity:** No test data found for product.

**Chronic Toxicity:** This product does not contain any substances that are considered by OSHA, NTP, IARC OR

ACGIH to be a probable or suspected human carcinogen. No additional test data was found for this product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** No data found.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, federal and state regulations.

## 14. TRANSPORTATION INFORMATION

This product is NOT regulated as hazardous. Do not stack cartons more than five high.

## 15. REGULATORY INFORMATION

**Inventory Issues:** All components of this product are listed on the U.S. TSCA, Canadian DSL, and European EINECS/ELINS chemical listings. This product is an EPA registered germicide ( EPA Registration No. 2212-17-72869 ).

## 16. OTHER INFORMATION

### National Fire Protection Association

Hazard Rating, NFPA	Health	Flammability	Reactivity	Special
	3	2	0	--

### MSDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
C	7/24/07	Updated and Changed to ANSI Z400.1-2004 format

**Disclaimer:** The information herein is given in good faith but no warranty expressed or implied is made.

Prepared By: L&R Manufacturing Company

Date: 07/24/07

Product Name: ULTRADOSE GERMICIDAL HOSPITAL GRADE ULTRASONIC CLEANER CONCENTRATE