

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	orthophenylphenol	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
D	8/17/11	Reviewed/Updated

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

Prepared By: L&R Manufacturing Company

Date: 8/17/11

Product Name: ULTRADOSE GERMICIDAL HOSPITAL GRADE ULTRASONIC CLEANER CONCENTRATE