



SAFETY DATA SHEET

1. Identification of Substance and Distributor:

L&R ULTRADOSE GERMICIDAL HOSPITAL GRADE ULTRASONIC CLEANER CONCENTRATE
PCN: UD036

Use: Germicidal Ultrasonic Cleaner. Dilute as directed, one part with 128 parts of water. Use only on non-porous items. Do not use heater on the machine. Do not mix with any other materials. This product is not to be used as a terminal sterilant. Dispose of used sample daily. Read hang tag and product label for additional information.

Distributor and Manufactured for: L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607 USA. Publication Date: 3/28/2014 REV: G

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTREC 800-424-9300 with the United States. Or (01) 703-527-3887 (USA) for International collect calls. Additional hotline number 1-800-336-6997

2. HAZARDS IDENTIFICATION



DANGER! CORROSIVE. WARNING! IRRITANT. HARMFUL IF SWALLOWED.

A: WARNING STATEMENT: Good industrial hygiene practices should be used when handling this material. Harmful if swallowed, absorbed through the skin or inhaled. Do not get into eyes or skin or on clothing. Avoid breathing spray mist. Avoid contamination of food. May cause irreversible eye damage or skin burns.

Acute Eyes: Direct contact causes irritation, redness and possible tearing.

Acute Skin: Prolonged or repeated contact causes redness drying of the skin and may cause allergic reaction in some individuals.

Acute Inhalation: Breathing high concentrations of vapors or mists may cause irritation to the nose and drowsiness.

B: POTENTIAL HEALTH EFFECTS:

Acute Ingestion: Will cause irritation to the digestive tract and signs of nervous system depression.

Chronic Effects: Prolonged skin contact may cause allergic reactions. Prolonged inhalation exposure may produce headaches and irritation of the mucous membrane. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
WATER	7732-18-5	59.32
Isopropanol	67-63-0	9.90
O-Benzyl-P-Chlorophenol	0120-32-1	3.80
ParaTertiary-Amyl phenol	80-46-6	3.74
O-Phenylphenol	90-43-7	2.35
Anionic surfactant	119345-04-9	5-10
Tetrasodium EDTA Tetrahydrate	64-02-8	1-5
Sodium Sulfite	7757-83-7	0.5-1
Potassium Hydroxide solution	1310-58-3	1 - 5
Tetrasodium EDTA hydrate	64-02-8	1 - 10

The exact concentration of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Call a poison control center or doctor for treatment advice. Have the product container or label with you when you call.

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure: Wash thoroughly with water. Take off contaminated clothing. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory irritation or distress occurs, move victim to fresh air. Seek immediate medical attention if respiratory irritation or distress continues.

Ingestion: Seek immediate medical attention. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Contact may aggravate existing skin disease. Respiratory disorder may be aggravated by breathing mists.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

FLASH POINT: 110-115 ° F. **METHOD USED:** Pensky Martin Closed Cup

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

Suitable Extinguishing Media: Extinguish with dry chemical, CO₂ or a BC/ABC extinguisher.

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: Product will burn under fire conditions. Closed containers may explode due to build pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions), Oxides of nitrogen, carbon and sulfur.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Mop up spill and dispose of in accordance with local, state and federal regulations.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 45 to 100° F. Protect from freezing

HANDLING: AVOID CONTACT WITH SKIN, EYES OR CLOTHING. AVOID BREATHING SPRAY MIST. WASH THOROUGHLY AFTER HANDLING

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General: These recommendations provide general guidance for handling of this product. Because specific work environments and material 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. Wash hands after handling.

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. 69 % by weight **V.O.C. (calculated):** 1.71 lbs. / gal or 204.9 grams / l. For recommended dilution 1 part to 128 parts of water **V.O.C. (calculated):** 0.13 / lbs. / gal or 1.59 g / 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

Viscosity: Similar to water.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

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

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 UNDER NORMAL CONDITONS. THERMAL DECOMPOSITION MAY BE HAZARDOUS.

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

Do not discharge effluent contacting this product into lakes streams ponds estuaries, ocean.

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. Shipping name: cleaning compound.

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>
F	3/1/13	Updated
G	3/28/2014	SDS Format

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This SDS was prepared by L&R Manufacturing Company.