

SAFETY DATA SHEETS

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MATERIAL SAFETY DATA SHEET
ULTRADOSE GERMICIDAL HOSPITAL GRADE ULTRASONIC CLEANER CONCENTRATE
PCN(s) UD036 Publication Date: 12/6/12 REV: E

1. SUPPLIER AND EMERGENCY INFORMATION Emergency Phone Numbers:

L&R Manufacturing Company
577 Elm Street, P.O. Box 607
Kearny, NJ 07032 - 0607 USA

Product Information
Call: **201-991-5330**
www.lrultrasonics.com

For emergencies involving a spill, leak,
fire or accident contact:
CHEMTREC - 800-424-9300
within the United States or (01)**703-527-3887 [USA]** for
International collect calls

2. HAZARDS IDENTIFICATION

Physical appearance and odor: Light brown liquid with slight aromatic odor.

A: WARNING STATEMENT: Good industrial hygiene practices should be used when handling this material.

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

Acute Skin: Prolonged or repeated contact causes redness and drying of the skin.

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: 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

4. FIRST AID MEASURES

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. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory irritation or distress occurs, move victim to fresh air. Seek 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: Skin contact may aggravate existing skin disease.

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

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:

INGREDIENTS

Water

EDTA salt

Sodium dodecylbenzene Sulfonate

Para Tertiary –Amyphenol

LIMITS

None established

None established

None established

None established

INGREDIENTS

Isopropyl Alcohol

Potassium Hydroxide

O-benzyl-p-chlorophenol

orthophenylphenol

LIMITS

400 PPM OSHA/ AACGIH TWA

2 mg / m3 TLV / TWA

None established

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. 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

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. 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

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MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

D

8/17/11

Reviewed/Updated

E

12/6/12

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: 12/6/12

Product Name: ULTRADOSE GERMICIDAL HOSPITAL GRADE ULTRASONIC CLEANER CONCENTRATE



SAFETY DATA SHEET

Issue Date April 22, 2019 Revision B

MIS	
Health	2
Fire Hazard	0
Reactivity	0
Personal Protection	B



1. IDENTIFICATION

Product identifier

Product Name

ULTRADOSE GERMICIDAL HOSPITAL GRADE ULTRASONIC CLEANER CONCENTRATE

Other means of identification

Product Code

UD036

Registration Number(s)

EPA Registration Number 34810-31-72869

Recommended use of the chemical and restrictions on use

Recommended Use

Hard surface disinfectant cleaner. This product is intended to be diluted prior to use.

Uses advised against

Do not mix with other chemicals

Details of the distributor of product and supplier of this safety data sheet

L&R 577 Elm Street, Kearny NJ 07032 USA

Emergency telephone number

CHEMTEL 800-255-3924 within the United States. Or 1-813-248-0585 for International calls.

Product information

201-991-5330, www.lrultrasonics.com

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Not orally toxic Oral LD50 (rat) > 5 g/kg body weight
Acute toxicity - Dermal	Not dermally toxic Dermal LD50 (rabbit) > 5 g/kg body weight
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Not classified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%
Hexylene glycol	107-41-5	10-30
Ortho-benzyl-para-chlorophenol	120-32-1	1 - 5
O-phenylphenol	90-43-7	1 - 5
Isopropyl alcohol	67-63-0	1 - 5
FDC Blue 1	3844-45-9	<0.1
Fragrance	NA	<1.0

4. FIRST AID MEASURES

Description of first aid measures

Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
Skin contact	Wash skin with soap and water.
Inhalation	Remove to fresh air.
Ingestion	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by a Poison Control Center or doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Closed containers may explode due to build up of pressure when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with eyes and skin. Use personal protective equipment as required.
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Environmental precautions

Environmental precautions	See Section 12 for additional ecological information.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
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Conditions for safe storage, including any incompatibilities

Minimum/Maximum Storage Temperatures: Temperatures: 40°F-90°F

Storage Conditions Do not contaminate water, food, or feed by storage or disposal. Keep upright with cap tightly closed. Store in original container in areas inaccessible to children.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hexylene glycol 107-41-5	Ceiling: 25 ppm	(vacated) Ceiling: 25 ppm (vacated) Ceiling: 125 mg/m ³	Ceiling: 25 ppm Ceiling: 125 mg/m ³
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³

Appropriate engineering controls

Engineering Controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses or goggles when handling the concentrate.

Skin and body protection Protective gloves when handling the concentrate.

Respiratory protection No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	2.05 – 2.4	Odor	Lightly fragranced
Physical State	Liquid	Odor threshold	No information available
Appearance	Clear to light yellow liquid	Specific Gravity	1.052
Color	Clear to light yellow	Water solubility	Completely soluble
Melting point/freezing point	No information available	Solubility in other solvents	No information available
Boiling point / boiling range	No information available	Viscosity	No information available
Flash point	None to boiling	Partition coefficient	No information available
Evaporation rate	No information available	Autoignition temperature	No information available
Vapor pressure	No information available	Decomposition temperature	No information available
Vapor density	No information available		

Other Information

VOC Content (%) No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	No known effect.
Eye contact	Moderately irritating to the eyes.
Skin contact	Irritating to skin. Avoid contact with skin.
Ingestion	Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
O-phenylphenol 90-43-7	= 1049 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 0.949 mg/L (Rat) 1 h
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	Irritating to eyes.
Irritation	Irritating to eyes and skin.
Sensitization	Not a skin sensitizer.
Germ cell mutagenicity	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
O-phenylphenol 90-43-7	-	Group 3	-	-
Isopropyl alcohol 67-63-0	-	Group 1 Group 3	-	X

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
O-phenylphenol 90-43-7	3.18
Isopropyl alcohol 67-63-0	0.05

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national, and local laws and regulations

Contaminated packaging

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
O-phenylphenol 90-43-7	-	Included in waste stream: K060	-	-

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDL	Complies
IECSC	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - China Inventory of Existing Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US 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

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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)

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)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals
Ortho-phenylphenol – 90-43-7

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number: 34810-31-72869

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection B

Issue Date April 22, 2019
Revision B : Addition of Blue 1

Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet