

SAFETY DATA SHEETS

This SDS packet was issued with item:

074762324

N/A

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. 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 | -- |

MSDS CHANGES

| <u>REV</u> | <u>DATE</u> | <u>DESCRIPTION OF CHANGE</u> |
|------------|-------------|------------------------------|
| 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. |
|---------------------------|------------------------|

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. |
|-----------------------------|--|

Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | See Section 12 for additional ecological information. |
|----------------------------------|---|

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. |
|--------------------------------|--|

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 fragrancd |
| 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/NDSL | Complies |
| IECSC | Complies |
| PICCS | Complies |
| AICS | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - 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