

SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

CLOCK CLEANING CONCENTRATE PCN: 133,134

Use: Ultrasonic Cleaning Solution, diluted as per instructions, 1 part to 7 parts of water.

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

Date: 11/6/2020 REVM

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

For emergencies involving a spill, leak fire or accident contact CHEMTEL 800-255-3924 within the United States. Or

1-813-248-0585 for International calls.

2. HAZARDS IDENTIFICATION



WARNING! FLAMMABLE! IRRITANT!

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 mist causes irritation to the nose and drowsiness.

Acute Ingestion: Not known, but would be expected to cause nausea and diarrhea.

B: POTENTIAL HEALTH EFFECTS: Chronic E 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 | 10 - 25 |
| ISOPROPYL ALCOHOL | 67-63-0 | 20 - 25 |
| OLEIC ACID | 112-80-1 | 5 - 10 |
| PINE OIL | 8002-09-3 | 5 - 10 |
| AMMONIUM HYDROXIDE | 1336-21-6 | 30 - 40 |
| The exact concentration of composition has been withheld as a trade secret. | | |

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. DO NOT INDUCE VOMITING.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA: Flammable liquid

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

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting. **Unusual Fire and Explosion Hazards:** May be ignited by excess het, sparks or flames. Closed containers may explode due to build up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions) Oxides of carbon and ammonia vapors.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Mop up spill and dispose of by dilution in a sanitary sewer system as permitted by local, state and federal regulations.

 $\textbf{Environmental and Regulatory Reporting}: \ Not\ required$

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 39 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
 LIMITS
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 Isopropyl Alcohol
 400 PPM OSHA/ AACGIH TWA
 Oleic Acid
 None Established

Pine oil 100 PPM ACGIH TWA Ammonium hydroxide 50 PPM (as ammonia) OSHA/PEL

Water None established

Engineering Controls: Provide adequate 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: Wear Rubber or plastic gloves to avoid drying and irritation to the skin.

Color: Yellow / Green

Specific Gravity: 0.915

Melting Point Range: Not available

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: Hazy Liquid pH: Approximately 11.5 (as concentrate) Water Solubility: Soluble

Freezing Point Range: Not established

Boiling Point: 210- 212 ° F Vapor Pressure: Not established Vapor Density: Not established Flash Point: 93 °F (33.9° C) Method: Tag Closed Cup

Flammability limits (vol/vol %): Lower: No Data Upper: No Data Percent volatile by volume: Approximately 85% as water and alcohol

Odor: Strong Ammonia Odor Odor Threshold: Not available Evaporation Rate: Not Applicable

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available Auto Ignition Temperature: Not available

VISCOSITY: Similar to water

V.O.C. (calculated): 2.08 lbs./ gal or 249.3 gms / 1

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Heat and open flames

Materials/Chemicals to be avoided: Strong Acids. Strong oxidizing agents, aluminum Hazardous Decomposition Products: Thermal Oxides of carbon and nitrogen

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.

Acute Skin Irritation: No test data found for product. 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: LD50 (rat) = 74 gm/kg .for oleic acid

3200 mg/kg for Pine Oil

350 mg/kg for ammonium hydroxide 5045 mg/kg for isopropyl alcohol 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

This product can be, with dilution, disposed in sanitary sewer system where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

This product is classified as a flammable liquid for domestic shipments per 49 CFR. For domestic ground shipments of containers of 1 gallon or less, it is listed as Limited Quantity. For all other containers: Flammable Liquid n.o.s. (Contains Isopropyl Alcohol), 3, UN 1993, Packing Group III. 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, European EINECS/ELINS chemical listings

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA Health Flammability Reactivity Special 3 0

SDS CHANGES

DESCRIPTION OF CHANGE DATE REV L 5/04/2018 **New Emergency Contact** M 11/6/2020 **Transportation Correciton**

Disclaimer: The information herin provided by this Clock Cleaning Concentrate is given in good faith but no warranty expressed or implied is made. This SDS has been prepared by L&R Manufacturing Companyt