



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer

ULTRADOSE TARTAR AND LIGHT STAIN REMOVER PCN 028

Use: Ultrasonic Cleaning Solution. Diluted per instructions.

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

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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



WARNING! IRRITANT. HARMFUL IF SWALLOWED.

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 throat.

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

B: POTENTIAL HEALTH EFFECTS:

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Do not use directly in an ultrasonic tank.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Citric Acid	77 -92 -9	80 - 85
Fumaric Acid	110 -17 -8	10 -15
Dodecylbenzene Sulfonate, Sodium Salt	25155-30-0	1 - 10

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: Non-Combustible

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

Special Fire Fighting Procedures: None known

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

Hazardous Decomposition Materials: (under fire conditions) May release sulfur dioxide and trioxide or ammonia gas.

6. ACCIDENTAL RELEASE MEASURES:

Cleanup and Disposal of Spill: Sweep up powder, avoid breathing dust. Residual powder may be washed with water. Dispose of in accord with Federal, State and Local regulations.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 32 to 100°F Protect from moisture and sunlight.

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:

<u>INGREDIENTS</u>	<u>LIMITS</u>	<u>INGREDIENTS</u>	<u>LIMITS</u>
Citric Acid	OSHA PEL 5 mg/m	Fumaric Acid	DNEL 2100 mg.m3 (long term Systematic effect inhalation

Sodium dodecylbenzene sulfonate (for Dodecyl benzenesulfonic Acid TWA 1 mg/m3 ACGIH (TLV)

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: Free Flowing Powder

pH: 2.0 as diluted

Water Solubility: Soluble

Freezing Point Range: Not applicable

Vapor Pressure: Not established

Flash Point: None **Method:** Tag Closed Cup

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

Percent volatile by volume: Less than 1% by volume **V.O.C. (calculated):** Less than 5 grams / l.

Color: White

Specific Gravity: Not available

Melting Point Range: Not available

Boiling Point: Not Established.

Vapor Density: Not established

Auto Ignition Temperature: Not available

Odor: odorless

Odor Threshold: Not available

Evaporation Rate: Not available

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Viscosity: not applicable, solid

Evaporation rate: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Moisture and sunlight

Materials/Chemicals to be avoided: Strong bases, nitrites, nitrates, chlorates, chlorine, hypochlorite, cyanides and sulfides

Decomposition Type: Thermal May release sulfur dioxide, sulfur trioxide or ammonia gases.

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.

Acute Skin Irritation: May cause irritation to Skin.

Acute Dermal Toxicity: No test data found for product.

Acute Respiratory Irritation: May cause nose and throat irritation.

Acute Oral Toxicity:

LD50 (rat) = Citric Acid = 3 gm / kg.

Fumaric Acid = 10,700 mg / kg

Sodium dodecylbenzene sulfonate = 1650 mg / kg

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

14. TRANSPORTATION INFORMATION

This product is not regulated for transportation. 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

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MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

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5/25/13

Reviewed

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3/18/2014

SDS format.

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