



MATERIAL SAFETY DATA SHEET

ULTRADOSE TARTAR AND LIGHT STAIN REMOVER

PCN(s): 028

Publication Date 08/08/99

REV: B

1. SUPPLIER AND EMERGENCY INFORMATION

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

Product Information
Call: 201-991-5330

Emergency Phone Numbers:

For emergencies involving a spill, leak,
fire or accident contact:
CHEMTREC - 800-424-9300
within the United States or 703-527-3887
for international collect calls.

2. COMPOSITION/INFORMATION ON INGREDIENT

Component	CAS Number	Percentage
Citric Acid	77-92-9	80 - 85
Fumaric Acid	110-17-8	10 - 15
Sodium dodecylbenzene sulfonate	25155-30-0	1 - 5

3. HAZARDS IDENTIFICATION

Physical appearance and odor: White free flowing powder, odorless

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

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

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:

FLASH POINT: NONE

METHOD USED: Not Applicable

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

Upper: No Data

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

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: None known

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

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Biodegradable product. Sweep up spill and dispose of in a sanitary land fill. Wash any residual with water and dispose of to a sanitary sewer system as permitted by local, state and federal regulations.

Environmental and Regulatory Reporting: Not required.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 39 to 120 °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:

INGREDIENTS

Citric Acid
Fumaric Acid
Sodium dodecylbenzene sulfonate

LIMITS

Generally recognized as safe
Generally recognized as safe
None established

8. EXPOSURE CONTROL/PERSONAL PROTECTION, CONTINUED

Respiratory Controls: For reasonable use of this material, respiratory protection should not be necessary.

Eye/Face Protection: Safety glasses to protect from splashing of prepared solution.

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 Appearance: White free flowing powder.

pH: 2.0 as diluted

Water Solubility: Soluble

Freezing Point Range: N / A

Vapor Pressure: Not established

Percent volatile by volume: Not applicable

Odor: Odorless.

Specific Gravity: N/A

Melting Point Range: N/A

Boiling Point: N/A

Vapor Density: Not established

V.O.C. (calculated): 0 gm / l

10. STABILITY AND REACTIVITY

Chemical Stability:

This material is stable under normal handling and storage conditions as described in Section 7.

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.

Hazardous Polymerization: WILL NOT OCCUR

Avoid the following to inhibit hazardous polymerization: NOT APPLICABLE

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.

Acute Skin Irritation: May cause redness or 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 = 438 mg / kg

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC OR ACGIH to be probable or suspected human carcinogens. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found.

13. DISPOSAL CONSIDERATIONS

This product is biodegradable and, as used, can be disposed in a sanitary sewer system 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.

SARA TITLE III HAZARD CLASSES

FIRE HAZARD	REACTIVITY HAZARD	RELEASE OF PRESSURE	CHRONIC HEALTH HAZARD
NO	NO	NO	NO

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA

Health	Flammability	Reactivity	General
1	0	0	--

MSDS CHANGES

REV

A

B

DATE

02/09/99

08/08/99

DESCRIPTION OF CHANGE

CHANGE TO ANSI MSDS FORMAT

Changed wording of section 3A

AUTHOR

P. Simon

P. Simon

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made

Prepared By: Philip Simon

Date: 02/09/99

Product Name: ULTRADOSE TARTAR AND LIGHT STAIN REMOVER