



**MATERIAL SAFETY DATA SHEET**  
**TARTAR, LIGHT STAIN & PERMANENT CEMENT REMOVER**  
**PCN(s) 232, 231**

Publication Date: 2-14-2013

REV: K

**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:** Colorless liquid with mild sweet 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 throat.

**Acute Ingestion:** Product is acidic and will cause irritation to the stomach and mucous membranes.

**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 carcinogen.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component                   | CAS Number | Percentage |
|-----------------------------|------------|------------|
| Water                       | 7732-18-5  | 80 - 88    |
| Amidosulfamic Acid          | 5329-14-6  | 10 - 15    |
| Sodium 2-Ethylhexyl Sulfate | 126-92-1   | 1 - 5      |

**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. Give large quantities of water if conscious.

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

**5. FIRE FIGHTING MEASURES**

**FIRE HAZARD DATA:** NOT COMBUSTIBLE

**Suitable Extinguishing Media:** Extinguish surrounding fire with dry chemical, CO<sub>2</sub> 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) None known..

**6. ACCIDENTAL RELEASE MEASURES**

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

**Regulatory Reporting:** Not required

**7. HANDLING AND STORAGE**

**Minimum/Maximum Storage Temperatures:** 40 to 100<sup>o</sup>F. Protect from freezing. Freezing will cause crystallization of this product. Product may be thawed in hot water and then mixed vigorously to re-dissolve.

**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>    |
|--------------------|------------------|-----------------------------|------------------|
| Amidosulfamic Acid | None established | Sodium 2-Ethylhexyl Sulfate | 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

|   |  |  |
|---|--|--|
| <b>Physical State:</b> Clear liquid   | <b>Color:</b> Colorless                      | <b>Odor:</b> Mild Sweet odor                                   |
| <b>pH:</b> 1.2 as supplied  | <b>Specific Gravity:</b> 1.07                | <b>Odor Threshold:</b> Not available                           |
| <b>Water Solubility:</b> Soluble  | <b>Melting Point Range:</b> Not available    | <b>Evaporation Rate:</b> Not Applicable                        |
| <b>Freezing Point Range:</b> < 32°F   | <b>Boiling Point:</b> Approx. 212 degrees °F | <b>Partition Coefficient; n-octanol / water:</b> Not available |
| <b>Vapor Pressure:</b> Not established  | <b>Vapor Density:</b> Not established        | <b>Decomposition Temperature:</b> Not available                |
| <b>Flash Point:</b> None to boiling   | <b>Method:</b> Tag Closed Cup                | <b>Auto Ignition Temperature:</b> Not available                |
| <b>Flammability limits (vol/vol %): Lower:</b> No Data <b>Upper:</b> No Data  |  |  |
| <b>Percent volatile by volume:</b> Approx. 85% as water <b>V.O.C. (calculated):</b> < 0.05 lbs./ gal or < 5 grams / l.. |  |  |

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable  
**Conditions to be avoided:** Excessive heat.  
**Materials/Chemicals to be avoided:** Strong bases, nitrates, nitrites, chlorates, chlorine, hypochlorite, cyanides or sulfides.  
**Decomposition Type: Thermal:** May release oxides of sulfur or ammonia gases.  
**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:** May cause nose and throat irritation..  
**Acute Oral Toxicity:** Sulfamic Acid, LD50 rat = 3160 mg/kg  
Sodium 2-Ethylhexyl Sulfate, LD50 rat = 4 grams/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

For approved domestic ground shippers, product is classified as ORM-D for containers of one ( 1 ) gallon or less shipped by domestic ground transportation. For all other shippers, containers: Corrosive liquid, n.o.s. FOR EXPORT : Corrosive liquid, Acidic, inorganic n.o.s. ( contains Sulfamic Acid ) , UN3264, 8 , Packing Group III, EMS 8-15 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 |
|                     | 2      | 0            | 0          | --      |

### MSDS CHANGES

| <u>REV</u> | <u>DATE</u> | <u>DESCRIPTION OF CHANGE</u> |
|------------|-------------|------------------------------|
| I          | 2/25/08     | Added PCN 231                |
| J          | 8/17/11     | Reviewed/Updated             |
| K          | 2/14/13     | Transportation 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: 2/14/2013

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