



**MATERIAL SAFETY DATA SHEET**  
**AUTOCLEAN AUTOCLAVE CLEANER & ENHANCER**  
**PCN(s) 00239**

Publication Date: 8/6/07

REV: E

**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:** Clear to slightly hazy liquid with a mild odor.

**A: WARNING STATEMENT:** Good industrial hygiene practices should be used when handling this material.

**Acute Eyes:** Direct contact causes mild to severe irritation..

**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 throat and lungs.

**Acute Ingestion:** May irritate or burn mouth, esophagus or stomach.

**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
Sodium Ethylenediaminetetra acetic acid	64-02-8	15 - 20
Sodium Bisulfate	7681-38-1	1 - 5
Water	7732-5-18	70 - 80
Sodium Nitrite	7632-00-0	0.1 - 1.0

**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:** Give large quantities of water. DO NOT INDUCE VOMITING. Seek immediate medical attention..

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

**5. FIRE FIGHTING MEASURES**

**FIRE HAZARD DATA:**

**Suitable Extinguishing Media:** Extinguish 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 explode due to build up of pressure when exposed to extreme heat.

**Hazardous Decomposition Materials:** (under fire conditions) Oxides of nitrogen and carbon.

**6. ACCIDENTAL RELEASE MEASURES**

**Cleanup and Disposal of Spill:** Ventilate area of spill. Use non-reactive material to pick up spill. Dispose of in accordance with local, state and federal regulations.

**Regulatory Reporting:** Not required

**7. HANDLING AND STORAGE**

**Minimum/Maximum Storage Temperatures:** 39 to 100°F. Protect from moisture.

**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**

Sodium Ethylenediaminetetra acetic acid  
Sodium Nitrite

**LIMITS**

None established  
None established

**INGREDIENTS**

Sodium Bisulfate

**LIMITS**

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 to slightly hazy liquid

**pH:** Approximately 7

**Water Solubility:** Soluble

**Freezing Point Range:** Not established

**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:** 85 – 90 % as water

**Color:** Water White

**Specific Gravity:** 1.09-1.10

**Melting Point Range:** Not available

**Boiling Point:** > 212°F

**Vapor Density:** Not established

**Odor:** Mild 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

**V.O.C. (calculated):** Virtually Zero (0)

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable

**Conditions to be avoided:** Excessive heat and cold

**Materials/Chemicals to be avoided:** Strong oxidizing agents

**Decomposition Type: Thermal:** Oxides of carbon nitrogen and sulfur

**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) =** 2800 mg/kg for Sodium bisulfate

**LD50( rat ) =** 120 mg/ kg for Sodium Nitrite

**LD50 ( inertperetinel mouse) =** 330 mg/ kg for Sodium Ethylenediaminetetra acetic acid

**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 is Non hazardous and can be disposed in 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

**16. OTHER INFORMATION**

**National Fire Protection Association**

Hazard Rating, NFPA

Health

Flammability

Reactivity

Special

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**MSDS CHANGES**

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**DATE**

8/6/07

**DESCRIPTION OF CHANGE**

Reviewed/ changed to ANSI Z400.1-2004 format

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

Prepared By: L&R Manufacturing Company

Date: 08/6/07

Product Name: AUTOCLEAN AUTOCLAVE CLEANER & ENHANCER