



MATERIAL SAFETY DATA SHEET

AUTOCLEAN AUTOCLAVE CLEANER & ENHANCER

PCN(s): 00239

Publication Date: 11 / 28 /05

REV: D

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 703-527-388 for international collect calls

2. 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	7732-18-5	70 - 80
Sodium Nitrite	7632-00-0	0.1 - 1

3. HAZARDS IDENTIFICATION

Physical appearance and odor: Clear to slightly hazy with mild odor.

A: WARNING STATEMENT: Good industrial hygiene practices should be used when handling Autoclean Autoclave Cleaner.

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 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: 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:

FLASH POINT: None

METHOD USED: Tag Closed Cup

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

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

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.

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

Sodium Ethylenediaminetetra acetic acid
Sodium Bisulfate
Sodium Nitrite

LIMITS

None established
None established
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 Appearance: Clear to slightly hazy liquid

Odor: mild odor

pH: Approx. 7

Specific Gravity: 1.09-1.10

Water Solubility: Complete

Melting Point Range: N/A

Freezing Point Range: Not established

Boiling Point: > 212° F

Vapor Pressure: N/E

Vapor Density: N/E

Percent Volatile: Approx. 85-90 %

V.O.C. (Calculated) = Virtually none

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: Excessive heat and cold.

Materials/Chemicals to be avoided: Strong oxidizing agents.

Decomposition type: Thermal Oxides of Carbon, nitrogen and sulfur.

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: 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: LD 50 (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 carcinogens. 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

General

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MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

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11/28/05

Reissued

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

Prepared By: L&R Manufacturing Company

Date: 03/01/99

Product Name: **AUTOCLEAN AUTOCLAVE CLEANER & ENHANCER**