



MATERIAL SAFETY DATA SHEET

E-VAC EVACUATION SYSTEM CLEANER CONCENTRATE

PCN(s): 107

Publication Date 11/17/05

REV: G

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
WATER	7732-18-5	50-70
ORTHO PHOSPHORIC ACID 75%	7664-38-2	20-30
SODIUM BUTOXYETHOXY ACETATE	67990-17-4	1-5
ISOPROPYL ALCOHOL	67-63-0	1-5
FRAGRANCE (MINT)	BLEND N/A	0.1 - 1.0

3. HAZARDS IDENTIFICATION

Physical appearance and odor: Clear red liquid with mint odor.

A: WARNING STATEMENT:

Good industrial hygiene practices should be used when handling this material

Acute Eyes: Direct contact will cause moderate to severe eye irritation.

Acute Skin: Skin irritation and rash can occur.

Acute Inhalation: Vapors may cause irritation to mucous membranes.

B: POTENTIAL HEALTH EFFECTS:

Acute Ingestion: Ingestion of significant quantities of this product can be toxic.

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. If conscious give water to dilute stomach contents. 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: N/A

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

Extinguishing Media: Noncombustible. Use methods 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) Emits fumes of phosphorous and carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Biodegradable product. Mop up spill and dispose of by dilution 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 100 °F. Protect from freezing. Freezing will NOT damage the product. Product may be thawed in warm water and then mixed to assure homogeneity.

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>
Water	None established	Fragrance	None established
Isopropyl Alcohol	400 ppm OSHA/ACGIH TWA	Sodium Butoxyethoxy Acetate	None established
Ortho Phosphoric acid 75%	Ingestion may cause sensitization		

Engineering Controls: Normal room ventilation.

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION CONTINUED

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 red liquid.

pH: 1.5 as concentrate

Water Solubility: Soluble

Freezing Point Range: < 32°F

Vapor Pressure: Not established

Percent volatile by volume: Approx. 75% as water

Odor: Mint odor.

Specific Gravity: 1.10

Melting Point Range: Not available

Boiling Point : Approx. 212° F

Vapor Density: Not established

V.O.C. (calculated) : 0.51 lbs./ gal or 60.9 grams / 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: Heat, open flame,

Materials/Chemicals to be avoided: Reactive metals (mild steel and aluminum) and bases

Decomposition type: Thermal Oxides of Carbon and Phosphorous.

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:

LD50 (rat) = 4400 mg/kg for Phosphoric acid

LD50(rat) =5045 mg/kg for isopropyl alcohol

LD50 = unknown for Sodium Butoxyethoxy Acetate

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 biodegradable and can be disposed in sanitary sewer system where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

For Domestic Ground transportation this product is listed as ORM-D, for containers of 1 gallon or smaller. For air or export shipments the classification is Corrosive Liquid Acidic n.o.s. (Contains Phosphoric Acid), class 8, UN 3264, PG III. Do not stack cartons more than five high. Inorganic

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

3

Flammability

0

Reactivity

0

Special

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MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

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11/17/05

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: **E-VAC EVACUATION SYSTEM CLEANER CONCENTRATE**