

SAFETY DATA SHEETS

This SDS packet was issued with item:

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MATERIAL SAFETY DATA SHEET

E-VAC EVACUATION SYSTEM CLEANER CONCENTRATE

PCN(s) 107

Publication Date: 2/18/2013

REV: J

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 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.

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

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	60-70
ORTHO PHOSPHORIC ACID 75%	7664-38-2	20-30
SODIUM BUTOXYETHOXY ACETATE	67990-17-4	1-5
ISOPROPYL ALCOHOL	67-63-0	2-6
FRAGRANCE (MINT) BLEND	N/A	0.01 - 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: 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: NOT COMBUSTIBLE

Suitable Extinguishing Media: Extinguish surrounding fire with dry chemical, CO₂ 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) Emits fumes of phosphorous and carbon oxides.

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: 39 to 100 o 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:

INGREDIENTS

Water
 Isopropyl Alcohol
 Ortho Phosphoric acid 75%

LIMITS

None established
 400 ppm OSHA/ACGIH TWA
 Ingestion may cause sensitization

INGREDIENTS

Fragrance
 Sodium Butoxyethoxy Acetate

LIMITS

None established
 20 ppm ACGIH

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 liquid

pH: 1.5

Specific Gravity: 1.1

Water Solubility: Soluble

Freezing Point Range: < 32°F

Vapor Pressure: Not established

Flash Point: None to boiling

Method: Tag Closed Cup

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

Percent volatile by volume: Approx. 75% as water

Color: Red

Odor Threshold: Not available

Melting Point Range: Not available

Boiling Point: Approx. 212 degrees °F

Vapor Density: Not established

Method: Tag Closed Cup

Upper: No Data

V.O.C. (calculated): 0.51 lbs./ gal or 60.9 grams / l.

Odor: Sulfur like odor

Evaporation Rate: Not Applicable

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Auto Ignition Temperature: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

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.

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.

Acute Skin Irritation: May cause irritation to the skin.

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: LD50 (rat) = 4400 mg/kg for Phosphoric acid LD50(rat) =5045 mg/kg for isopropyl alcohol

LD50 (rat) = 14800 mg/kg 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 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 smaller shipped by domestic ground transportation. For all other shippers, containers Corrosive liquid, n.o.s. For air or export shipments the classification is Corrosive Liquid, Acidic, inorganic n.o.s. (Contains Phosphoric Acid), class 8, UN 3264, PG III. 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

3

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MSDS CHANGES

REV

DATE

DESCRIPTION OF CHANGE

I

8/16/11

Reviewed/Updated

J

2/18/13

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: 2/18/2013

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



SAFETY DATA SHEET

E-VAC EVACUATION SYSTEM CLEANER CONCENTRATE PCN: 107

Use: Ultrasonic Cleaning Solution, diluted as per instructions

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

Date: 05/04/2018 REV: N

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTEL 800-255-3924 within the United States. Or 1-813-248-0585 for International calls.

1. HAZARDS IDENTIFICATION



WARNING! CORROSIVES, IRRITANT. HARMFUL IF SWALLOWED.

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.

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

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.

DO NOT USE DIRECTLY IN AN ULTRASONIC TANK

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Water	7732-18-5	60-70
ORTHO PHOSPHORIC ACID 75%	7664-38-2	20-30
SODIUM BUTOXYETHOXY ACETATE	67990-17-4	1-5
ISOPROPYL ALCOHOL	67-63-0	2-6
FRAGRANCE (MINT) BLEND	N/A	0.01 - 1.0

The exact concentration of composition has been withheld as a trade secret.

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: NOT COMBUSTIBLE

Suitable Extinguishing Media: Extinguish surrounding fire with dry chemical, CO₂ 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) Emits fumes of phosphorous and carbon oxides

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: May be neutralized with baking soda/baking powder. 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: 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:

INGREDIENTS	LIMITS	INGREDIENTS	LIMITS
Water	None established	Fragrance	None established
Isopropyl Alcohol	400 ppm OSHA/ACGIH TWA	Sodium Butoxyethoxy Acetate	20 ppm ACGIH
Ortho Phosphoric acid 75%	NIOSH REL TWQ 1mg/m ³ ST 3 mg/m ³		

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 liquid **Color:** Red **Odor:** Sulfur like odor
pH: Concentrate 1.5 **Recommended dilution** 2.0 **Specific Gravity:** 1.1 **Odor Threshold:** Not available
Water Solubility: Soluble **Melting Point Range:** Not available **Evaporation Rate:** Not Applicable
Freezing Point Range: < 32°F **Boiling Point:** Approx. 212 degrees °F **Partition Coefficient, n-octanol / water:** Not available
Vapor Pressure: Not established **Vapor Density:** Not established **Decomposition Temperature:** Not available
Flash Point: None to boiling **Method:** Tag Closed Cup **Auto Ignition Temperature:** Not available
Flammability limits (vol/vol %): Lower: No Data **Upper:** No Data **Viscosity:** Similar to water
Percent volatile by volume: Approx. 75% as water **V.O.C. (calculated): For Concentrate:** 0.51 lbs./ gal or 60.9 grams / l., For Dilution (1:31) 0.016 lbs./gallon or 1.9 grams / l.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to be avoided: Heat, open flame.,
Materials/Chemicals to be avoided: Reactive metals (steel and aluminum) and bases.
Decomposition Type: Thermal: Oxides of Carbon and Phosphorous.
Possibility of Hazardous Reactions: WILL NOT OCCUR
Do not use with amalgam separator

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.
Acute Skin Irritation: May cause irritation to the skin.
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: LD50 (rat) = 4400 mg/.kg for Phosphoric acid LD50(rat) =5045 mg/kg for isopropyl alcohol
LD50 (rat) = 14800 mg/kg 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 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. Product can be neutralized with baking soda (sodium bicarbonate) to a neutral pH.

14. TRANSPORTATION INFORMATION

For ground shippers, product is classified as Limited Quantity for containers of one (1) gallon or smaller shipped by domestic ground transportation. For all other shippers, containers Corrosive liquid, n.o.s. For air or export shipments the classification is Corrosive Liquid, Acidic, inorganic n.o.s. (Contains Phosphoric Acid), class 8, UN 3264, PG III. 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
	3	0	0	--

SDS CHANGES

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION OF CHANGE</u>
N	05/04/2018	Emergency Contact Change

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This SDS has been prepared by L&R Manufacturing Company.