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Revision Date: 05-Sep-2018

Version 3

1. IDENTIFICATION

Product Identifier

Product Name United 524 Anti-Overflow Cartridge

Other means of identification

SDS # UNITED-524

Recommended use of the chemical and restrictions on use

Recommended Use PREVENTATIVE MAINTENANCE FOR AIR CONDITIONER CONDENSATE SYSTEMS.
CONTROL OF LEGIONNAIRE'S DISEASE BACTERIA in preliminary laboratory tests.

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com

Emergency Telephone Number

Company Phone Number 800-323-2594 (to reorder)
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity – Oral	Category 4
Acute Toxicity – Dermal	Category 4
Acute Toxicity – Inhalation (Vapors)	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Label elements

Signal word DANGER

Hazard statements

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damages.
Toxic to aquatic life with long lasting effects.



Appearance Light brown contents packaged in a plastic container

Physical State Solid

Odor Soapy

Emergency Overview

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label). Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting.

Precautionary Statements - Disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary Statements - Storage

Store locked up.

Hazards not otherwise classified (HNOC)

None known.

Other Information

20% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight%	North American Hazard Indicator
Ethanol	64-17-5	5	1000ppm TWA; 1900 mg/m ³ TWA 1000ppm STEL
Alkyl(60%C14,30%C16,5%C12,5%C18) Dimethyl Benzyl Ammonium Chloride	68391-01-5	20	True
Alkyl(68%C12,32%C14) Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	20	True
Other Ingredients	N/A	55	False

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a physician or poison control center immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Ingestion	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects

Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products Thermal decomposition or combustion may produce hazardous gases and/ or materials.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal Precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

- Environmental Precautions** Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Should not be released into the environment. Refer to approved EPA Label. Approved only for use in drain pans of air conditioning systems and refrigeration systems.

Methods and material for containment and cleaning up

- Methods for Clean-Up** Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

- Advice on Safe Handling** Ensure adequate ventilation. Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.

Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 10 and 48.88°C. Keep in properly labeled containers. Keep out of the reach of children.

- Incompatible Materials** Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	1000 ppm STEL	1000 ppm TWA 1900 mg/m ³ TWA (vacated) 1000 ppm TWA (vacated) 1900 mg/m ³ TWA	3300 ppm IDLH (10% LEL)
Alkyl(60%C14,30%C16,5%C12, 5%C18) Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	-	-
Alkyl(68%C12,32%C14) Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-
Other Ingredients N/A	-	-	-

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Tightly sealing safety goggles. Face protection shield.

- Skin and Body Protection** Wear protective gloves and protective clothing. Chemical resistant apron.
- Respiratory Protection** In case of inadequate ventilation wear respiratory protection.
- General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Odor	Soapy
Appearance	Light brown contents packaged in a plastic container	Odor Threshold	No information available
Color	Light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	Not information available 170-180° F	Literary Reference
Boiling Point/Boiling Range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	No information available	
Upper Flammability Limits	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	0.965-0.985	
Water Solubility	73-85%	
Solubility in other solvents	No information available	
Partition Coefficient	No information available	
Auto ignition Temperature	No information available	Estimated
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	
VOC Content	No information available	

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Heat, flames, and sparks.

Incompatible Materials

Strong acids.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl(60%C14,30%C16,5%C12,5%C18) Dimethyl Benzyl Ammonium Chloride 68391-01-5	=240 mg/kg (RAT)	-	-
Alkyl(68%C12,32%C14) Dimethyl Ethylbenzyl Ammonium Chloride 68956-79-6	-	-	-
Other Ingredients N/A	-	-	-

The following values are calculated based on Chapter 3.1 of the GHS document

ATEmix (oral) 952 mg/kg

ATEmix (dermal) 1200 mg/kg

Information on likely routes of exposure

Product Information

Eye Contact Severe eye irritation. Causes serious eye damage and possible burns to eyes. May cause irreversible eye damage. Avoid contact with eyes.

Skin Contact May be fatal if absorbed through skin. Contact causes severe skin irritation and possible burns. Avoid contact with skin.

Inhalation May be fatal if inhaled. May cause irritation of the mucous membranes. May cause irritation of respiratory tract. Avoid breathing dust.

Ingestion May be fatal if swallowed. Nausea. Diarrhea. Do not take internally.

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/irritation

No information available

Skin corrosion/Irritation

No information available

Sensitization

No information available

Reproductive Effects

No information available

Developmental Effects

California Proposition 65 - Developmental Toxicity. [Ethyl alcohol in alcoholic beverages].

Teratogenic Effects

May cause harm to the unborn child. [Ethanol, Cas# 64-17-5 by the state of Massachusetts].

Chronic Toxicity

Avoid repeated exposure. Possible carcinogenic. [Ethanol]. California Proposition 65 Developmental Toxicity. May cause harm to the unborn child.

Numerical measures of toxicity – Product Information

Acute Toxicity 20% of the mixture consists of ingredient(s) of the unknown toxicity.

ATEmix (inhalation-gas) 2800 mg/L

ATEmix (inhalation-dust/mist) 2 mg/L

ATEmix (inhalation-vapor) 12 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects. Avoid releasing to the environment.
75% of the mixture consists of components of unknown hazards to the aquatic environment.

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

Chemical Name	Log Pow=
Ethanol 64-17-5	-0.32

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT Not regulated.
IATA Not regulated.
IMDG Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply.
DSL Does not comply.
EINECS Does not comply.
ENCS Does not comply.
IENCS Does not comply.
KECL Does not comply.
PICCS Does not comply.
AICS Does not comply.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Chemical Name	CAS No.	VOCs
Ethanol	64-17-5	Present

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

