

Issue Date 21-Apr-2014

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Version 2

## 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  
www.unitedlabsinc.ca

### 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 3
Acute Toxicity – Dermal	Category 3
Acute Toxicity – Inhalation (Gases)	Category 3
Acute Toxicity – Inhalation (Vapor)	Category 3
Acute Toxicity – Inhalation (Dust/Mists)	Category 3
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A

### Label elements

**Signal word** DANGER

#### **Hazard statements**

Toxic if swallowed.  
Toxic in contact with skin.  
Toxic if inhaled.  
Causes severe skin burns and eye damages.  
May cause cancer.



**Appearance** Odorless solid enclosed within a plastic housing with filter pad

**Physical State** Solid

**Odor** Odorless

### **Emergency Overview**

#### **Precautionary Statements - Prevention**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Wash face, hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
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**

Dispose of contents/container to an approved waste disposal plant.

#### **Precautionary Statements - Storage**

Store according to local rules and regulations.  
Store in a well-ventilated place. Keep container tightly closed.

#### **Hazards not otherwise classified (HNOC)**

None known

#### **Other Information**

Toxic to aquatic life with long lasting effects.  
95% 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 <sup>3</sup> TWA 1000ppm STEL Monograph 1000E[2012](in alcoholic beverages); Monograph 96 [2010]( in alcoholic beverages) Monograph 100E [2012]; Monograph 96 [2010]; Monograph 44[1988]
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

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or Poison Control Center immediately.
<b>Skin Contact</b>	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 Centre immediately.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### Most important symptoms and effects

<b>Symptoms</b>	No information available.
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO<sub>2</sub>). 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.

## 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 <sup>3</sup> 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 fitting safety goggles. Face-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**

<b>Physical State</b>	Solid	<b>Odor</b>	Soapy
<b>Appearance</b>	Light brown contents packaged in a plastic container	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined 170-180° F	Literary Reference
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	17.5 mm Hg	
Vapor Density	Not determined	
Specific Gravity	0.965-0.985	(1=Water)
Water Solubility	73-85%	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	Not determined	

## 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 Oxidizers.

### Hazardous Decomposition Products

Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>) Hydrogen chloride gas.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol 64-17-5	7060 mg/kg (RAT)	-	124.7 mg/L (RAT) 4h
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	-	-	-

### 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

Unlikely route of exposure. May be fatal if swallowed. Nausea. Diarrhea. Do not ingest.

### 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**

**Carcinogenicity** Possible carcinogen. [Ethanol].

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3-Confirmed Animal Carcinogen with unknown relevance to humans	Monograph 1000E[2012](in alcoholic beverages); Monograph 96 [2010](in alcoholic beverages) Monograph 100E [2012]; Monograph 96 [2010]; Monograph 44[1988]	Known human Carcinogen	Present

**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 carcinogens. [Ethanol]. California Proposition 65 Developmental Toxicity. May cause harm to the unborn child.

**Numerical measures of toxicity**

**Acute Toxicity** 95% of the mixture consists of ingredient(s) of the unknown toxicity.

**The following values are calculated bases on chapter 3.1 of GHS document.**

ATEmix (oral)	299 mg/kg
ATEmix (dermal)	300 mg/kg
ATEmix (inhalation-gas)	700 mg/L
ATEmix (inhalation-dust/mist)	0.6 mg/L
ATEmix (inhalation-vapor)	4 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**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

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

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	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**

<b>TSCA</b>	Does not comply.
<b>DSL</b>	Does not comply.
<b>EINECS</b>	Does not comply.
<b>ENCS</b>	Does not comply.
<b>IENCS</b>	Does not comply.
<b>KECL</b>	Does not comply.
<b>PICCS</b>	Does not comply.
<b>AICS</b>	Does not comply.

##### **Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - 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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

##### **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



**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	Cas-No	Category	Type
Ethanol	64-17-5	carcinogen, initial date 4/29/11 (in alcoholic beverages) carcinogen, initial date 7/1/88 (when associated with alcohol abuse) developmental toxicity, initial date 10/1/87 (in alcoholic beverages)	carcinogen, initial date 4/29/11 (in alcoholic beverages) carcinogen, initial date 7/1/88 (when associated with alcohol abuse)

**FIFRA Information**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under the federal pesticide law. This requirement differs from the classification criteria and hazard information required on the pesticide label also includes other important information, including directions for use. Danger: Do not remove unit housing. Corrosive. Causes irreversible eye damage and skin burns.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Illinois	Pennsylvania	Rhode Island
Ethanol 64-17-5	Sn 0844	Teratogen		present	Toxic; Flammable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	0	0	0
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	1	1	none

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**