

Issue Date: 05-Dec-2015

Revision Date: 08-Mar-2022

Version 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** United 337 Algae, Bacteria and Fungi Control

### Other means of identification

**SDS #** UNITED-337  
**Registration Number(s)** EPA Reg. No. 1448-212-9250

### Recommended use of the chemical and restrictions on use

**Recommended Use** Algae, Bacteria and Fungi Control.  
**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 1-800-535-5053 (North America)  
1-352-323-3500 (International)

## 2. HAZARDS IDENTIFICATION

This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR1910.1200).

### Classification

Acute toxicity (oral)	Category 4
Acute toxicity (inhalation)	Category 4
Eye irritation	Category 2B

**Signal Word:** Warning

### Hazard statements

Harmful if swallowed or if inhaled. Causes eye irritation.

### Precautionary statements: Prevention

Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response:** If inhaled: Removed person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If swallowed: call a poison center if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage:** Not applicable

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Cas No.	Weight %
Poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride	31512-74-0	15

Any concentration shown as a range is to protect confidentiality or is due to batch variation. While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document. Per Appendix D 1910.1200 OSHA, ranges can be used when there is batch-to-batch variability in a mixture or a trade secret claim. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. FIRST-AID MEASURES

#### First Aid Measures

<b>Eye Contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to a person who is unconscious or convulsing.

#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	No information available.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable Extinguishing Media** None known.

#### Specific Hazards Arising from the Chemical

In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### Hazardous Combustion Products

May include: Carbon dioxide, Carbon monoxide, Nitrogen oxides and Halogenated compounds.

#### Protective equipment and precautions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Non-Emergency Personnel</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk-through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### **Methods and material for containment and cleaning up**

<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### **Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions and Incompatible materials</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (See Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
<b>Satisfactory Material of Construction</b>	Plexiglas, Teflon, Polypropylene, Buna-N rubber, Viton, EPDM rubber, PVC - flexible Neoprene, Fiberglass, Polyethylene-low density, Tigon, Tyrel 880, Van leer epoxy liner 136, Gum rubber, Hypalon, Aluminum 5052 H34 and Silicone rubber. Note: With respect to all other materials not listed above, user should be aware that use of materials with this product may be hazardous and result in damages to such materials and other property and personal injuries. No data concerning such material not listed above should be implied by user. This product has not been tested for Materials of Construction. However, based on the chemical composition and results from more concentrate products, we believe this product will be compatible with the materials listed in this section.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits**      None.

### **Appropriate engineering controls**

**Engineering Controls**      Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls**      Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**      Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin and Body Protection**      Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection and other skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory Protection**      If respiratory hazards exist (see section 2), and if use conditions warrant with the potential for airborne exposure existing, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**General Hygiene Considerations**      Wash hands, forearms and face thoroughly after handling chemical products, before eating smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Information on basic physical and chemical properties**

**Physical State**      Liquid  
**Appearance**      Pale, amber liquid  
**Color**      Pale amber  
**Odor**      Faint odor

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
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<b>pH</b>	6	
<b>Melting Point/Freezing Point</b>	No information available.	
<b>Boiling Point/Boiling Range</b>	>100 °C / >212 °F	
<b>Flash Point</b>	Closed cup: >100°C(>212°F)	[Pensky-Martens.]
<b>Evaporation Rate</b>	No information available	
<b>Flammability (Solid, Gas)</b>	No information available	
<b>Upper Flammability Limits</b>	No information available.	
<b>Lower Flammability Limit</b>	No information available.	
<b>Vapor Pressure</b>	No information available.	
<b>Vapor Density</b>	No information available.	
<b>Relative Gravity</b>	1.03	
<b>Water Solubility</b>	Easily soluble in cold and hot water	
<b>Solubility in other solvents</b>	No information available.	
<b>Partition Coefficient</b>	No information available.	
<b>Auto-ignition Temperature</b>	No information available.	
<b>Decomposition Temperature</b>	No information available.	
<b>Kinematic Viscosity</b>	No information available.	
<b>Dynamic Viscosity</b>	No information available.	
<b>Explosive Properties</b>	No information available.	
<b>Oxidizing Properties</b>	No information available.	
<b>VOC Content</b>	None.	

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid**

No information available.

**Incompatible Materials**

No information available.

**Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

Dermal and Inhalation. Routes of entry not anticipated: Oral

**Product Information**

<b>Eye Contact</b>	Causes eye irritation.
<b>Skin Contact</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	Harmful if inhaled.
<b>Ingestion</b>	Harmful if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Poly[Oxyethylene(dimethyliminio)] 31512-74-0	1850 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	-

**Information on physical, chemical and toxicological effects**

**Symptoms** Eye contact: adverse symptoms may include the following: irritation, watering, redness. Inhalation, Skin contact and Ingestion: No known significant data.

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

**Short term and long-term exposure** No information available on immediate and delayed effects.  
**Potential delayed effects** No information available.  
**Potential chronic health effects** No information available.  
**Conclusion/Summary** Chronic feeding studies on the active ingredient did not reveal any significant adverse effects.  
**General** No known significant effects or critical hazard.  
**Carcinogenicity** No known significant effects or critical hazard.  
**Mutagenicity** No known significant effects or critical hazard.  
**Reproductive toxicity** No known significant effects or critical hazard.

**Numerical measures of toxicity****Acute toxicity estimates:**

Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl (dimethyliminio)-1,2-ethanediyl chloride (1:2)]: **Oral:** 1951 mg/kg – 1850 mg/kg. **Dermal:** 2500 mg/kg – Not applicable. **Inhalation gases and vapors:** Not applicable. **Inhalation dusts and mists:** 2.9 mg/l.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No information available.

**Persistence/Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated.

**IATA**  
 UN Number UN3082  
 UN Proper Shipping Name Environmentally Hazards Substance Liquid, N.O.S.  
 (Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride])  
 Transport hazard class(es) 9  
 Marine Pollutant (Poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride])  
 Packing group III  
 Environmental hazards Yes  
 ERG Guide 171  
 Additional information This product is not regulated as a dangerous good when transported in sizes of ≤5L or ≤5 kg, provided the packaging(s) meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG**  
 UN Number UN3082  
 UN Proper Shipping Name Environmentally Hazards Substance Liquid, N.O.S.  
 (Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride])  
 Transport hazard class(es) 9  
 Packing group III  
 Environmental hazards Yes  
 ERG Guide 171 – ERG Code 171  
 Additional information This product is not regulated as a dangerous good when transported in sizes of ≤5L or ≤5 kg, provided the packaging(s) meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**15. REGULATORY INFORMATION**

**U.S. Federal regulations** United States inventory (TSCA 8b): This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from US Toxic Substances Control Act (TSCA) Inventory listing requirements.

Potential impurities present in trace quantities are included in the regulatory listings of this section.

**Clean Water Act (CWA) 307** bis(2-chloroethyl)ether  
**Clean Water Act (CWA) 311** bis(2-chloroethyl)ether

**SARA 302/304**

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
Dichloroethyl ether	0.00025	Yes	Lbs 10000	Gallons 981.5	Lbs 10	Gallons 0.98

**SARA 304 RQ** : 4000000 lbs /1816000 kg [465763.5 gal /1763106.8 L]

**SARA 311/312**: Classification: Acute Toxicity(oral)–Category 4. Acute Toxicity(inhalation)–Category 4. Eye irritation–Category 2B

**US State Regulations**

**CERCLA**: Hazardous substances.: 1,4-dioxane; 100lbs. (45.4kg); bis(2-chloroethyl) ether: 10lbs. (4.54kg)

**FDA**: This product is not allowed for food contact uses.

**EPA Reg. No.:** 1448-212

**FIFRA:** This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use. **CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material (such as any waterproof material, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC) or Viton). **USER SAFETY RECOMMENDATIONS:** User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. **USER SAFETY REQUIREMENTS:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them. **PERSONAL PROTECTIVE EQUIPMENT (PPE):** Wear protective eyewear (goggles or face shield). Wear long sleeved shirt and long pants, socks, shoes, chemical-resistant apron and chemical resistant gloves (such as any waterproof material, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Natural Rubber, Polyethylene, Polyvinyl Chloride (PVC) or Viton). **ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish, aquatic organisms and clams. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.



**California Proposition 65**

WARNING: This product can expose you to chemicals including 1,4-Dioxane and bis(2-chloroethyl)ether, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). 1,4-Dioxane and bis(2-chloroethyl)ether-No significant risk level: Yes

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

No information available.

**16. OTHER INFORMATION**

<u><b>NFPA</b></u>	<b>Health Hazards</b> No information available	<b>Flammability</b> No information available	<b>Instability</b> 0	<b>Special Hazards</b> No information available
<u><b>HMIS</b></u>	<b>Health Hazards</b> /1	<b>Flammability</b> 1	<b>Physical Hazards</b> 0	<b>Personal Protection</b> C

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**Revision Note:** Regulatory Update

**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 a 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. The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**End of Safety Data Sheet**