

# **Safety Data Sheet**

Issue Date 11-Apr-2010 Revision Date 5-Nov-2015 Version 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name United 336 CYCLE SMART™ BIOCIDE

Other means of identification

SDS# UNITED - 336

Recommended use of the chemical

and restrictions on use

Recommended use Cycle Smart™ Biocide Industrial Water Treatment

**Uses Advised Against** For industrial and institutional use only.

## Details of the supplier of the safety data sheet

**Company Name** 

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

Emergency telephone number

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

# 2. HAZARDS IDENTIFICATION

Classification

Pesticide: EPA SIGNAL WORD: DANGER. EPA Registration No. 83451-16-9250

**OSHA Regulatory Status** 

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute Toxicity	Category 2
Skin Corrosion	Category 1B
Environment Hazard-Chronic	Category 2
Physical and Chemical Hazards	Not classified

### Label elements

#### **Emergency Overview**

# **Danger**

#### **Hazard statement**

Causes severe skin burns and eye damage. Fatal if swallowed. Toxic to aquatic life with long lasting effects.

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Appearance Colorless Liquid Physical state Liquid Odor Slight Odor

# **Precautionary Statements**

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling.

Wear eye protection, protective clothing and protective gloves.

#### Response

If swallowed: Rinse mouth thoroughly. Do not induce vomiting. Get medical attention.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower and soap for several minutes. If inhaled: Remove person to fresh air and keep comfortable for breathing. For breathing difficulties oxygen may be necessary. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Immediately call a doctor, a poison center. Wash contaminated clothing before reuse.

#### **Storage**

Store locked up.

#### Disposal

Dispose of contents/container to comply with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC) None.

Other Information None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Tributyltetradecyl Phosphonium Chloride	81741-28-8	5-10	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

## First aid measures

**General information** If you feel unwell, seek medical advice (show the label where possible).

**Skin Contact** Remove victim immediately from source of exposure. Immediately remove contaminated

clothing. Wash skin thoroughly with soap and water for several minutes. Get medical

attention if any discomfort continues.

Eye contact Remove victim immediately from source of exposure. Immediately flush with plenty of water

for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical

attention promptly if symptoms occur after washing.

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**Inhalation** Remove victim immediately of exposure. Provide rest, warmth and fresh air. For breathing

difficulties oxygen may be necessary. Get medical attention if any discomfort continues.

**Ingestion** NEVER make an unconscious person vomit or drink fluids. Do not induce vomiting. If

vomiting occurs, the head should be kept low so the stomach vomit doesn't enter the lungs.

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

### Most important symptoms and effects, both acute and delayed

**Inhalation** Severe irritation in nose and throat. Congestion of the lungs may occur producing severe

shortness of breath.

**Skin contact** Chemical burns.

**Eye contact** May cause blurred vision and serious eye damage.

**Ingestion** May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

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

### 5. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

This product is not flammable. CO2. Foam. Dry chemicals. Sand. Dolomite. Water spray. Fog or mist.

#### Specific hazards arising from the chemical

Fire creates: Toxic gases/vapors/fume of: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of: Phosphorus. Chlorine.

#### Protective equipment / advice and precautions for firefighters

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control. Leave danger zone immediately. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this SDS. For personal protection, see Section 8.

#### **Environmental precautions**

**Environmental precautions**Avoid release to the environment. To prevent release, place container with damaged side up.

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

Methods for containment

and cleaning up

Should be prevented from entering in drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard

symbol.

Waste disposal Dispose of container in accordance with local, state and federal laws.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

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Advice on safe handling Comply with the legal requirements. Avoid spilling, skin and eye contact. Avoid inhalation of

vapors and spray mists. Observe good chemical hygiene practices.

Hygiene measures Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid contact

with skin, eyes or clothing.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from

freezing and direct sunlight. Keep separate from food, feedstuffs, fertilizers and other

sensitive material. Store separated from: Alkalis. Reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** No exposure guidelines noted for ingredient(s).

Engineering Controls

Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide

adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear protective eye wear (goggles or face mask). Use face shield in case of splash risk. Skin/Body Protection When handling the product to prevent skin contact by splashing, wear rubber apron. Wasl

When handling the product to prevent skin contact by splashing, wear rubber apron. Wash promptly if skin becomes contaminated. Promptly remove clothing that becomes contaminated. Use protective gloves made of: selection of suitable gloves depends on work conditions and whether the product is present on its own or in combination with other substances. Neoprene, nitrile, polyethylene or PVC. Frequent change of gloves, as liquid

may penetrate the gloves.

Respiratory Protection In case of inadequate ventilation use suitable respirator. If exposure to spray, mist or

vapors, if possible wear respirator face mask with appropriate cartridge. A respiratory protection program that meets OSHA 1910.134 and ANZI Z88.2 requirements must be

followed whenever work place conditions warrant a respirator's use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColorColorlessOdorSlight odor

<u>Property</u> <u>Values</u>

**pH** 6-8

Specific Gravity 1.01 – 1.06 (H2)1)
Viscosity No Information available

Melting point/freezing point

No Information available

Flash point No information available.

Boiling point / boiling range 100 @ 760 mm Hg

Evaporation rate
Flammability (solid, gas)
Flammability Limits in Air
Upper flammability limit:

100 @ 760 mm Hg
No Information available
No information available
No Information available

Upper flammability limit:No Information availableLower flammability limit:No Information availableVapor pressureNo Information available

Relative density 0.96-1.00 20°C

Vapor density No information available

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Water solubility No information available. **Partition coefficient** No Information available Autoignition temperature No Information available

**Decomposition temperature** >300 **VOC Content (%)** None.

## 10. STABILITY AND REACTIVITY

#### Reactivity

No specific reactivity hazards associated with this product.

#### **Chemical stability**

Stable under recommended storage conditions and recommended use.

### **Possibility of Hazardous Reactions**

Will not polymerise.

### **Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

#### Incompatible materials

Strong alkalis. Strong reduction agents

### **Hazardous Decomposition Products**

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of: Phosphorus.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tributyltetradecyl Phosphonium	>4000 mg/kg	>2000 mg/kg	0.9 mg/l (vapors) 4 hr.
Chloride	(Rat)	(Rabbit)	(Rat)
81741-28-8	,	. ,	. ,

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

Skin corrosion/irritation Causes skin burns. Serious eye damage/irritation Causes eye burns. Respiratory or skin sensitization Not a skin sensitizer.

Germ cell mutagenicity In Vitro – Ames test, negative. Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. **Aspiration hazard** No information available.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

This product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effect in the aquatic environment.

#### Persistence and degradability

This product is biodegradable, but it must not be discharged into drains without permission from the authorities.

## Bioaccumulation

This product does not contain any substances expected to be bio-accumulating.

#### Partition coefficient

No information available.

#### **Mobility**

This product is miscible with water. May spread in water systems.

### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

Disposal of wastes When handling waste, consideration should be made to the safety precautions applying to

handling of this product. Triple rinse drums prior to recycling or disposal.

Waste treatment methods Absorb in vermiculite or dry sand and dispose of at a licensed hazardous waste collection

point. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may

contain product residues and due consideration should be given prior to disposal.

## 14. TRANSPORT INFORMATION

DOT

UN/ID No. UN2922

Proper Shipping Name Corrosive Liquid, Toxic, N.O.S. (contains tributyltetradecylphosphonium chloride).

Transport hazard class(es) 8 (6.1)
Packaging group

IATA

**UN/ID No.** UN2922

**Proper Shipping Name**Corrosive Liquid, Toxic, N.O.S. (contains tributyltetradecylphosphonium chloride).

Transport hazard class(es) 8 (6.1)
Packaging group

<u>IMDG</u>

UN/ID No. UN2922

**Proper Shipping Name** 

Transport hazard class(es) 8
Subsidiary Risk 6.1
Packaging group III

Environmental Class Yes

**Marine Pollutant** 

EMS F-A, S-B Classification code (Adr) CT1

# 15. REGULATORY INFORMATION

## **International Inventories**

Australia, Korea, China, Philippines - Tributyltetradecyl Phosphonium Chloride listed.

# <u>Legend:</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-None listed

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List-Tributyltetradecyl Phosphonium Chloride

## **US Federal Regulations**

# SARA 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

No ingredients listed.

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# **SARA 313 Emission Reporting**

This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. EPA Registration Number 279-3139.

## **CERCLA Hazardous Substance List**

None of the ingredients are listed.

# CAA (Clean Air Act) Section 112(r) Accidental Release Prevention

None of the ingredients are listed.

### **FDA Essential Chemical**

None of the ingredients listed.

## **FDA Precursor Chemical**

None of the ingredient listed.

## **US State Regulations**

# **California Proposition 65**

This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required.

# **16. OTHER INFORMATION**

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA	Health hazards 3	Flammability 0	Reactivity 0	Physical and Chemical
				Properties Yes
HMIS_	Health hazards 3	Flammability 0	Reactivity 0	Personal protection D

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 Revision Note
 Revised

No Information available

# **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**