1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name
United 338 TOWERTAB

Other means of identification
SDS#
UNITED 338

Recommended use of the chemical
and restrictions on use
Recommended use
Anti-Microbial Agent for Industrial Use
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
800-323-2594 (to reorder)
Emergency Telephone
INFOTRAC 1-800-535-5053
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

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

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute toxicity – Oral</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity – Inhalation</td>
<td>Category 3</td>
</tr>
<tr>
<td>Sensitization – Skin</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure: narcotic effects</td>
<td>Category 3</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment – acute hazard</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Emergency Overview

Danger

Hazard statement
Causes serious eye damage
Toxic if swallowed or inhaled
May cause an allergic skin reaction
May cause drowsiness or dizziness
Very toxic to aquatic life

Appearance  Beige tabs in water soluble bags  Physical state  Solid  Odor  Disinfectant odor

Precautionary Statements

Prevention
Avoid breathing dusts or mists
Wash hands, forearms, gloves and contaminated surfaces thoroughly after handling.
Do not eat, drink or smoke when using product.
Use only outdoors in well-ventilated area.
Contaminated clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/eye protection/face protection.

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contact poison control center. If on skin: Wash with soap and water. If skin irritation occurs, get medical advice or attention. Wash all contaminated clothing. If inhaled: Remove individual to fresh air and keep comfortable for breathing. Call a poison control center for treatment advice if you are unwell. If swallowed: Rinse mouth. Do not induce vomiting. Immediately contact poison control center, or doctor for treatment advice.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

Hazards not otherwise classified (HNOC)  None

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2 Dibromo-3-nitrilopropionamide</td>
<td>10222-01-2</td>
<td>40</td>
<td>*</td>
</tr>
<tr>
<td>Modified Cellulose</td>
<td>9004-65-3</td>
<td>27</td>
<td>*</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>57-11-4</td>
<td>2.5</td>
<td></td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures
Skin Contact
Wash skin with soap and plenty of water while removing contaminated clothing, for at least 20 minutes. Do not take contaminated clothing home to be laundered. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Contact a poison control center. Suitable emergency safety shower facility should be immediately available.

Eye contact
Rinse thoroughly with plenty of water, directed stream of cool, clear water under the eyelids for at least 30 minutes. Remove contact lenses, if present, after 5 minutes, then continuing rinsing eye. Do not allow individual to rub their eyes. Get medical attention, preferably from an ophthalmologist. Do not transport the victim until the recommended flushing period is completed, unless portable emergency eye wash bottle is immediately available.

Inhalation
Remove individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek medical attention. If not breathing, give artificial respiration via a suitable mechanical device such as a bag or mask. Do not use mouth-to-mouth resuscitation.

Ingestion
Do not induce vomiting. Rinse mouth with copious quantities of water first and get immediate medical attention. Drink several glasses of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways clear.

Self-protection of the first aider
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Most important symptoms and effects, both acute and delayed

Symptoms
May cause severe eye irritation. Prolonged contact may cause irreversible damage and/or blindness. Prolonged contact with skin may cause irritation, rash or burns. May cause allergic skin reaction in susceptible individuals. Inhalation of dust may be irritating. Material may aggravate persons with chronic respiratory disease. Moderately toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause serious injury, even death.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Other than acute, none known. See Section 11 for toxicological information.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Any media suitable for the surrounding fire.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
Product is corrosive to eyes, skin and respiratory system. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Solid product will melt and combustion may occur when exposed to fire. Thermal decomposition may release oxides of carbon and nitrogen, bromine, cyanogen bromide and dibromoacetonitrile.

Explosion data
Sensitivity to Mechanical Impact
No information available.
Sensitivity to Static Discharge
No information available.

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and full turn-out gear. Approach fire from upwind direction. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve irritating or toxic gas under extreme heat. Contain runoff.
6. ACCIDENTAL RELEASE MEASURES

Methods and material for containment and cleaning up

Methods for containment
Collect spill material into suitable containers and dispose of in accordance with all local, state and federal requirements. The area may then be flushed with copious quantities of water.

Methods for cleaning up
Wear suitable protective equipment found in Section 8. Floor may be slippery; use care to avoid falling. This product is toxic to aquatic life. Avoid release of this product into the environment to prevent contamination of soil, sewers, natural waterways and/or groundwater.

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a well-ventilated cool place when not in use, between 10°C and 49°F. Follow all recommended safety precautions when handling the material. Keep away from sun exposure and from heat and flame. Keep away from incompatible materials. Shelf Life: Use within 12 months.

Incompatible materials
Concentrate alkalis, oxidizing agents and metals such as: aluminum, brass, copper, copper alloys, mild steel and stainless steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
Exposure guidelines noted for ingredient(s).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2 Dibromo-3-nitrilopropionamide</td>
<td>Ceiling: 2mg/m3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10222-01-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modified cellulose 9004-65-3</td>
<td>TWA: 10mg/m3 (total dust)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Octadecanoic acid 57-11-4</td>
<td>TWA: 10mg/m3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

NIOSH IDLH  Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls
General ventilation is maintained. Otherwise, wear self-contained breathing apparatus.

Individual protection measures, such as personal protective equipment

Eye/face protection
Chemical resistant goggles or face shield.

Skin and hand/body protection
Chemical resistant rubber, neoprene latex or PVC.

Respiratory protection
No protective equipment is needed if good ventilation is maintained. Otherwise, wear self-contained breathing apparatus.

General Hygiene
Eyewash station in area of use. Wear long sleeve shirt, long pants, and boots.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical state**  
Solid

**Appearance**  
Tablets in water soluble bags

**Color**  
Beige

**Odor**  
Disinfectant odor

**Odor threshold**  
No Information available

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>0.00004</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Slowly soluble in water</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No Information available</td>
<td>(n-octanol/water)</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Information available</td>
<td></td>
</tr>
</tbody>
</table>

Other Information

**Density Lbs/Gal**  
No information available.

**VOC Content (%)**  
No information available.

10. STABILITY AND REACTIVITY

**Reactivity**  
Stable under normal recommended conditions.

**Chemical stability**  
Stable under normal recommended conditions.

**Possibility of Hazardous Reactions**  
None under normal recommended conditions.

**Conditions to avoid**  
Avoid moisture, excessive heat, open flames and sparks.

**Incompatible materials**  
Concentrated alkalis, oxidizing agents and metals such as: aluminum, brass, copper, copper alloys, mild steel and stainless steel.
Hazardous Decomposition Products
Thermal decomposition may release oxides of carbon and nitrogen bromine, cyanogen bromide, dibromoacetonitrile.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Inhalation of dust may be irritating. Material may aggravate persons with chronic respiratory disease.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Prolonged contact with eyes may cause irreversible damage and/or blindness. May cause severe irritation or burns.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause an allergic skin reaction in susceptible individuals. May cause severe irritation or burns.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however swallowing larger amounts may cause serious injury or death.</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms
No Information available.

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

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitization</td>
<td>Skin contact may cause an allergic reaction.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Active ingredient did not cause cancer in laboratory animals.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>In animal studies, active ingredient did not interfere with reproduction.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>No Information available.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>Excessive exposure may increase the blood and tissue levels of bromine. Observations in animals include kidney effects following repeated ingestion of active ingredient, but no evidence of systemic toxicity following repeated dermal exposure at maximum attainable doses. For the minor component(s): In humans, effects have been reported on the following. Blood.</td>
</tr>
<tr>
<td>Chronic toxicity</td>
<td>Active ingredient did not cause cancer in laboratory animals.</td>
</tr>
<tr>
<td>Developmental toxicity</td>
<td>For the active ingredient(s): Has been toxic to the fetus in laboratory animals at doses toxic to the mother. For the active ingredient(s): Did not cause birth defects in laboratory animals</td>
</tr>
<tr>
<td>Genetic toxicology</td>
<td>For the component(s) tested: In vitro genetic toxicity studies were negative. For the active ingredient(s): Animal genetic toxicity studies were negative.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No Information available.</td>
</tr>
</tbody>
</table>

Numerical measures of toxicity - Product Information

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

<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral</td>
<td>35279 mg/kg</td>
<td>Acute toxicity estimate</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt;2,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>623.1 mg/L</td>
<td>Acute toxicity estimate</td>
</tr>
<tr>
<td>dust/mist</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION
Ecotoxicity

Moderately toxic to aquatic life.

Biodegradation Data

The active ingredient will degrade rapidly in the environment. Dibromonitrilopropionamide has a very low vapor pressure; therefore volatility from water to air is not expected.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of the law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or hazardous waste representative at the nearest EPA regional office for guidance.

Contaminated packaging

Completely empty liner into application equipment. Dispose of container and empty liner in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not reuse container.

14. TRANSPORT INFORMATION

DOT

UN/ID No. UN2811
Proper Shipping Name Toxic Solid, Organic, N.O.S., (2,2-Dibromo-3-Nitrilopropionamide)
Transport hazard class 6.1
Packing Group PGIII

IATA

Not regulated.

IMDG

UN/NA ID No. UN2811
Proper Shipping Name Toxic Solid, Organic, N.O.S.,(2,2-Dibromo-3-Nitrilopropionamide)
Transport hazard class 6.1
Packing Group PGIII

Environmental Class Marine Pollutant No

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

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

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard

No

**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.

**US State Regulations**

**California Proposition 65**
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**U.S. EPA Label Information**

**EPA Registration Number: 464-264**
This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**DANGER**- Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Causes skin irritation. Harmful is absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. This pesticide is toxic to fish and aquatic organisms.

**16. OTHER INFORMATION**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**Issue Date**
11-Apr-2015

**Revision Date**
10-June-2015

**Revision Note**
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