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Revision Date 10-June-2015

Version 1

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).

Serious eye damage/irritation	Category 1
Acute toxicity – Oral	Category 3
Acute toxicity – Inhalation	Category 3
Sensitization – Skin	Category 1B
Specific target organ toxicity – single exposure: narcotic effects	Category 3
Hazardous to the aquatic environment – acute hazard	Category 1

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

Chemical Name	CAS No.	Weight-%	Trade Secret
2,2 Dibromo-3-nitripropionamide	10222-01-2	40	*
Modified Cellulose	9004-65-3	27	*
Octadecanoic acid	57-11-4	2.5	

*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.
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Indication of any immediate medical attention and special treatment needed

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,2 Dibromo-3-nitrilopropionamide 10222-01-2	Ceiling: 2mg/m ³	-	-
Modified cellulose 9004-65-3	TWA: 10mg/m ³ (total dust)	-	-
Octadecanoic acid 57-11-4	TWA: 10mg/m ³	-	-

NIOSH IDLH *Immediately Dangerous to Life or Health*

Appropriate engineering controls

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

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

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**

Inhalation	Inhalation of dust may be irritating. Material may aggravate persons with chronic respiratory disease.
Eye contact	Prolonged contact with eyes may cause irreversible damage and/or blindness. May cause severe irritation or burns.
Skin Contact	May cause an allergic skin reaction in susceptible individuals. May cause severe irritation or burns.
Ingestion	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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,2-Dibromo-3-nitropropionamide	224 mg/kg (Rat)	>2,000 mg/kg	-

Information on toxicological effects

Symptoms No Information available.

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

Sensitization	Skin contact may cause an allergic reaction.
Carcinogenicity	Active ingredient did not cause cancer in laboratory animals.
Reproductive toxicity	In animal studies, active ingredient did not interfere with reproduction.
STOT - single exposure	No Information available.
STOT - repeated exposure	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.
Chronic toxicity	Active ingredient did not cause cancer in laboratory animals.
Developmental toxicity	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
Genetic toxicology	For the component(s) tested: In vitro genetic toxicity studies were negative. For the active ingredient(s): Animal genetic toxicity studies were negative.
Aspiration hazard	No Information available.

Numerical measures of toxicity - Product Information

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

LD50 Oral	35279 mg/kg; Acute toxicity estimate
Inhalation dust/mist	623.1 mg/L; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity Moderately toxic to aquatic life.

Biodegradation Data The active ingredient will degrade rapidly in the environment. Dibromonitripropionamide 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-Nitripropionamide)
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-Nitripropionamide)
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 if 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

<u>NFPA</u>	Health hazards 3	Flammability 0	Instability 2	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 3	Flammability 1	Physical hazards 1	Personal protection 0

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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