SAFETY DATA SHEET
according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

AB Cutrine Ultra
Version 2.2 Revision Date 2020.05.18 Print Date 2020.09.08

SECTION 1. IDENTIFICATION

Commercial Product Name : Applied Biochemists
Product name : AB Cutrine Ultra

Manufacturer or supplier's details
Company : Innovative Water Care, LLC
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004

Telephone : 1-800-511-6737 (Outside the USA: 1-423-780-2347)
E-mail address : sds@sigurawater.com
Emergency telephone number : 1-800-654-6911 (Outside the USA: 1-423-780-2970)

Recommended use of the chemical and restrictions on use
Recommended use : Water treatment chemical

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion : Category 1B
Serious eye damage : Category 1
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements
Hazard pictograms : 🚧 ⚠️
AB Cutrine Ultra

Signal word : Danger

Hazard statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements : Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P363 Wash contaminated clothing before reuse.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name / Synonyms</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2',2''-Nitrilotriethanol</td>
<td>102-71-6</td>
<td>25 - 30</td>
</tr>
<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
<td>20 - 25</td>
</tr>
<tr>
<td>Copper(2+) carbonate hydroxide (2:1:2)</td>
<td>12069-69-1</td>
<td>15 - 20</td>
</tr>
<tr>
<td>2,2'-lminodiatedanol</td>
<td>111-42-2</td>
<td>0.1 - 0.2</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice: Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If inhaled: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

In case of skin contact: IF ON SKIN OR CLOTHING: 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.

In case of eye contact: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: IF SWALLOWED: 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. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: None known.

Notes to physician: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO2)  
Dry powder  
Foam

Specific hazards during firefighting: Heating or fire can release toxic gas. Do not allow run-off from fire fighting to enter drains or water courses.

Further information: Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus. Prevent further leakage or spillage if safe to do so. Evacuate personnel to safe areas. Use personal protective equipment as required.

Environmental precautions: If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Advice on safe handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor.

Conditions for safe storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials.

Materials to avoid: Refer to Section 10, "Incompatible Materials."

Further information on storage stability: No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of Control parameters / Permiss-</th>
<th>Basis</th>
</tr>
</thead>
</table>

Ref. / 000000024434 SDS_US / EN Page 4 (15)
AB Cutrine Ultra

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Exposure</th>
<th>Concentration</th>
<th>Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2',2''-Nitrilotriethanol</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>2-Aminoethanol</td>
<td>TWA</td>
<td>3 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>6 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>6 ppm</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>3 ppm</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td>Copper(2+) carbonate hydroxide (2:1:2)</td>
<td>REL (Dust and mist.)</td>
<td>1 mg/m³ (as Cu)</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td></td>
<td>(Dust and mist.)</td>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>TWA (Dust and mist.)</td>
<td>1 mg/m³ (as Cu)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>TWA (Fume.)</td>
<td>0.2 mg/m³ (as Cu)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>REL (Fume.)</td>
<td>0.1 mg/m³ (as Cu)</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td>2,2'-Iminodiethanol</td>
<td>(Inhalable fraction and vapor.)</td>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>TWA (Inhalable fraction and vapor.)</td>
<td>1 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>3 ppm</td>
<td>NIOSH/GUIDE</td>
</tr>
<tr>
<td></td>
<td>(Inhalable fraction and vapor.)</td>
<td>15 mg/m³</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

**Engineering measures**: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

**Personal protective equipment**

Respiratory protection: Wear a NIOSH approved respirator if levels above the exposure limits are possible. A NIOSH approved air purifying respirator with organic vapor cartridge and P95 particulate filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Hand protection

Remarks: Wear protective gloves.
AB Cutrine Ultra

Eye protection : Chemical resistant goggles must be worn.  
                 Face-shield

Skin and body protection : Impervious clothing

Protective measures : Ensure that eyewash stations and safety showers are close  
                      to the workstation location.

Hygiene measures : Avoid contact with skin, eyes and clothing.  
                   When using do not eat or drink.  
                   When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : dark blue

Odour : Citrus-like

Odour Threshold : no data available

pH : 10.2 - 10.3

Melting point/freezing point : no data available

Boiling point/boiling range : no data available

Flash point : boils without flashing

Evaporation rate : no data available

Flammability (solid, gas) : The product is not flammable.

Flammability (liquids) : no data available

Self-ignition : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Relative vapour density : > 1  
                         (Air = 1.0)

Relative density : 1.2322 (75 °F / 24 °C)

Density : Not applicable
AB Cutrine Ultra

Bulk density : no data available
Water solubility : completely miscible
Partition coefficient: n-octanol/water : Not applicable
Auto-ignition temperature : no data available
Decomposition temperature : no data available
Viscosity, dynamic : 396 mPa.s (75 °F / 24 °C)
Viscosity, kinematic : no data available
Explosive properties : no data available
Oxidizing properties : no data available
Minimum ignition energy : no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : Stable under normal conditions.
Conditions to avoid : High temperatures
Incompatible materials : Strong acids and strong bases
Oxidizing agents
Hazardous decomposition products : Carbon oxides
Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure :

Eyes
Skin
Ingestion
AB Cutrine Ultra

Acute toxicity
Acute oral toxicity : LD50 (Rat): = 1,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 2.07 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
  Remarks: (Whole-body)
Acute dermal toxicity : LD50 (Rat): > 2,000 - < 5,000 mg/kg
Acute toxicity (other routes of administration) : Remarks: Corrosive to skin
  Severe eye irritation
  Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract.

Skin corrosion/irritation
Result: Corrosive to skin

Serious eye damage/eye irritation
Result: Severe eye irritation

Respiratory or skin sensitisation
Remarks: Negative skin sensitizer, guinea pig - Buehler Method

Germ cell mutagenicity
Genotoxicity in vitro : Remarks: no data available

Carcinogenicity
Result: no data available
Remarks: no data available

IARC
Group 2B: Possibly carcinogenic to humans
2,2’-Iminodiethanol 111-42-2

OSHA
No component of this product present at levels greater than or equal to 0.1% is on OSHA#s list of regulated carcinogens.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH
Confirmed animal carcinogen with unknown relevance to humans
2,2’-Iminodiethanol 111-42-2

Reproductive toxicity
Effects on fertility : Remarks: no data available
STOT - single exposure
Remarks: no data available

STOT - repeated exposure
Remarks: no data available

Repeated dose toxicity
Remarks: Not known or reported to cause subchronic or chronic toxicity.

Aspiration toxicity
No aspiration toxicity classification

Further information
Remarks: no data available

Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.
Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxicity to fish : Remarks: no data available

Persistence and degradability
no data available

Bioaccumulative potential
Bioaccumulation : Remarks: no data available

Components:

2,2',2''-Nitrilotriethanol:
Partition coefficient: n-octanol/water : log Pow: -2.3

2-Aminoethanol:
Partition coefficient: n-octanol/water : log Pow: -1.91 (25 °C)
Method: OECD Test Guideline 107

Copper(2+) carbonate hydroxide (2:1:2):
Partition coefficient: n-octanol/water : Remarks: no data available
AB Cutrine Ultra

Mobility in soil
Distribution among environmental compartments : Remarks: no data available

Other adverse effects
Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Toxic to fish and other aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.
As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

| UN number | : 1760 |
| Proper shipping name | : Corrosive liquids, n.o.s. (Copper triethanolamine complex) |
| Transport hazard class | : 8 |
| Packing group | : III |
| Labels | : 8 |
| Emergency Response Guidebook Number | : 154 |
| Environmental hazards | : no |
## TDG

<table>
<thead>
<tr>
<th>UN number</th>
<th>1760</th>
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</table>
| Proper shipping name | CORROSIVE LIQUID, N.O.S.  
(Copper triethanolamine complex) |
| Transport hazard class | 8 |
| Packing group   | III  |
| Labels          | 8    |
| Environmental hazards | no |

## IATA

<table>
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<tr>
<th>UN number</th>
<th>1760</th>
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</table>
| Proper shipping name | Corrosive liquid, n.o.s.  
(Copper triethanolamine complex) |
| Transport hazard class | 8 |
| Packing group   | III  |
| Labels          | 8    |
| Environmental hazards | no |

## IMDG

<table>
<thead>
<tr>
<th>UN number</th>
<th>1760</th>
</tr>
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</table>
| Proper shipping name | Corrosive liquid, n.o.s.  
(Copper triethanolamine complex) |
| Transport hazard class | 8 |
| Packing group   | III  |
| Labels          | 8    |
| EmS Number 1    | F-A  |
| EmS Number 2    | S-B  |
| Environmental hazards | Marine pollutant: no |

## ADR

<table>
<thead>
<tr>
<th>UN number</th>
<th>1760</th>
</tr>
</thead>
</table>
| Proper shipping name | CORROSIVE LIQUID, N.O.S.  
(Copper triethanolamine complex) |
| Transport hazard class | 8 |
| Packing group   | III  |
| Classification Code | C9 |
| Hazard Identification Number | 80 |
| Labels          | 8    |
| Environmental hazards | no |
AB Cutrine Ultra

RID

UN number : 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
                      (Copper triethanolamine complex)
Transport hazard class : 8
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

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.

EPA Registration number : 8959-53
Signal word : DANGER!
Hazard statements : Harmful if swallowed.
                    Harmful if absorbed through skin.
                    Corrosive. Causes skin burns.
                    Corrosive - causes irreversible eye damage.
                    This pesticide is toxic to fish.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2'-Iminodiethanol</td>
<td>111-42-2</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification
AB Cutrine Ultra

SARA 313

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper(2+) carbonate hydroxide (2:1:2)</td>
<td>12069-69-1</td>
<td>10 - 20 %</td>
</tr>
</tbody>
</table>

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2'-Iminodiethanol</td>
<td>111-42-2</td>
<td>0.1 - 1 %</td>
</tr>
</tbody>
</table>

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
<td>20 - 30 %</td>
</tr>
</tbody>
</table>

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

<table>
<thead>
<tr>
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<th>CAS-No.</th>
<th>Concentration</th>
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</thead>
<tbody>
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<td>Copper(2+) carbonate hydroxide (2:1:2)</td>
<td>12069-69-1</td>
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US State Regulations

Massachusetts Right To Know

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<tbody>
<tr>
<td>2,2',2''-Nitrilotriethanol</td>
<td>102-71-6</td>
</tr>
<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
</tr>
</tbody>
</table>

Pennsylvania Right To Know

<table>
<thead>
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<th>CAS-No.</th>
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<tr>
<td>2,2',2''-Nitrilotriethanol</td>
<td>102-71-6</td>
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<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
</tr>
</tbody>
</table>
**AB Cutrine Ultra**

| Copper(2+) carbonate hydroxide (2:1:2) | 12069-69-1 |

**New Jersey Right To Know**

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
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<tbody>
<tr>
<td>2,2',2''-Nitrilotriethanol</td>
<td>102-71-6</td>
</tr>
<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
</tr>
<tr>
<td>Copper(2+) carbonate hydroxide (2:1:2)</td>
<td>12069-69-1</td>
</tr>
<tr>
<td>Fatty acids, tall-oil</td>
<td>61790-12-3</td>
</tr>
</tbody>
</table>

**California Prop. 65**

WARNING Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<table>
<thead>
<tr>
<th>Components</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2,2'-Iminodiethanol</td>
<td>111-42-2</td>
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</tbody>
</table>

**Canadian lists**

**NPRI**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Copper(2+) carbonate hydroxide (2:1:2)</td>
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</tr>
<tr>
<td>2,2'-Iminodiethanol</td>
<td>111-42-2</td>
</tr>
</tbody>
</table>

The components of this product are reported in the following inventories:

- **TSCA**: This is an EPA registered pesticide.

**SECTION 16. OTHER INFORMATION**

**Full text of other abbreviations**

- **ACGIH**: US. ACGIH Threshold Limit Values
- **NIOSH/GUIDE**: US. NIOSH: Pocket Guide to Chemical Hazards, as amended

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dan-
AB Cutrine Ultra

gerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date  :  2020.05.18

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