

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL SDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **ULTIMA NIX**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Supplier

**Ultima**  
1400 Bluegrass Lakes Parkway ,  
Alpharetta, GA, 30004  
USA

**Telephone: +17705215999**  
**Telefax: +17705215999**  
**Web: www.poolspacare.com**

REVISION DATE: 03/01/2016  
SUPERCEDES: 02/23/2016

MSDS Number: 000000024409  
SYNONYMS: none  
CHEMICAL FAMILY: None  
DESCRIPTION / USE: Water treatment chemical  
FORMULA: None established

### Manufacturer




**Advantis Technologies**  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA 30004  
United States of America

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	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	:	  
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. 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. <b>Response:</b> P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P312 Call a POISON CENTER/doctor if you feel unwell. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. <b>Storage:</b> P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste

disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY	68424-85-1	35 - 45
LANTHANUM CHLORIDE	10099-58-8	5 - 15
Ethanol	64-17-5	2 - 7

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**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.
Inhalation:	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.
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.
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.
Ingestion:	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.
Notes to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.

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**SECTION 5. FIREFIGHTING MEASURES**

Flammability Summary (OSHA): Combustible.

Flammable Properties

Flash Point: 43 °C

Fire / Explosion Hazards: Vapors may form explosive mixture with air. Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back.

Extinguishing Media: Use dry chemical, water fog, carbon dioxide (CO<sub>2</sub>), or foam.

Fire Fighting Instructions: 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. Use water to cool containers.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: 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.

Spill Mitigation Procedures

Air Release: Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog.

Water Release: Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.

Land Release: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid runoff into storm sewers and ditches which lead to waterways.

Additional Spill Information : Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

## SECTION 7. HANDLING AND STORAGE

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.

Storage: Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Avoid freezing.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: 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.

### Protective Equipment for Routine Use of Product

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 N95 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.

Skin Protection : Wear impervious gloves, boots and apron to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Use chemical goggles and a faceshield.

Protective Clothing Type: Impervious

General Protective Measures: An eye wash and safety shower should be provided in the immediate work area.

### Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
Ethanol (64-17-5)	STEL	1,000 ppm	ACGIH (02 2014)

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Form: <\*\* Phrase does not exist: LONZA - SX0900048460 \*\*>

Color: <\*\* Phrase does not exist: LONZA - SX0900048460 \*\*>

Odor: <\*\* Phrase does not exist: LONZA - SX0900048460 \*\*>

Molecular Weight: None established

pH : 6.45  
( )

Boiling Point: no data available

Melting point/freezing point: no data available

Bulk Density: 1,160 kg/m3  
( )

Vapor Pressure: no data available

Vapor Density:	no data available
Viscosity:	108.4 mPa.s 20 °C
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	Not applicable
Evaporation Rate:	no data available
Oxidizing:	None established
Volatiles, % by vol.:	no data available
VOC Content	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.
HAP Content	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions.
Reactive Properties:	Product is sensitive to electrical static discharge.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Avoid freezing.
Chemical Incompatibility:	Strong oxidizing agents, Reducing agents
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Hydrogen chloride, Oxides of nitrogen
Decomposition Temperature:	No data

## SECTION 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY	LD50 = 426 mg/kg	Rat
LANTHANUM CHLORIDE	LD50 = 4,184 mg/kg	Rat
Ethanol	LD50 = 7,060 mg/kg	Rat

### Component Animal Toxicology

#### Dermal LD50 value:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY	no data available	
LANTHANUM CHLORIDE	no data available	
Ethanol	LD50 Believed to be > 2,000 mg/kg	Rabbit

Component Animal ToxicologyInhalation LC50 value:

QUATERNARY AMMONIUM COMPOUNDS,  
BENZYL-C12-16-ALKYL  
LANTHANUM CHLORIDE  
Ethanol

no data available

no data available

Inhalation LC50 10 h = 20000 ppm Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 875 mg/kg Rat

Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 value: no data available

Skin Irritation: Expected to be corrosive.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

Subchronic / Chronic Toxicity: Not known or reported to cause subchronic or chronic toxicity.

Ethanol Prolonged or repeated ingestion may cause liver damage.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Ethanol This chemical has been tested in laboratory animals and developmental and/or teratogenic effects were seen following ingestion.

Mutagenicity: Not known or reported to be mutagenic.

Ethanol This product has been tested for mutagenicity. Tests revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be a mutagenic hazard.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Ethanol The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans. The FDA determined that this product is not carcinogenic in laboratory animals.

## SECTION 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

### Ecological Toxicity Values for: QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY

Pimephales promelas (fathead minnow)	-	96 h LC50 0.28 mg/l
Daphnia magna (Water flea)	-	48 h EC50 0.25 mg/l
Selenastrum capricornutum (green algae)	-	72 h ErC50 0.049 mg/l

### Ecological Toxicity Values for: Ethanol

Pimephales promelas (fathead minnow)	-	(nominal, static). 96 h LC50 = 14,700 mg/l
Rainbow trout (Salmo gairdneri),	-	(nominal, static). 96 h LC50 = 13,000 mg/l
Brine shrimp	-	(nominal, static). 48 h LC50= 25.5 mg/l
Daphnia pulex	-	(nominal, static). 18 h LC50= 12,100 mg/l
Daphnia magna,	-	(nominal, static). 48 h EC50> 10,000 mg/l
Daphnia magna,	-	(nominal, static). 48 h LC50= 9,248 mg/l
Ceriodaphnia dubia	-	(nominal, static). 48 h LC50= 8,808 mg/l

## SECTION 13. DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.

Disposal Methods : As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

## SECTION 14. TRANSPORT INFORMATION



**DOT**

UN number : 1760  
 Description of the goods : Corrosive liquids, n.o.s.  
 : (Quaternary ammonium compounds, benzyl-C12-16-  
 alkyldimethyl, chlorides)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 Emergency Response : 154  
 Guidebook Number

**TDG**

UN number : 1760  
 Description of the goods : CORROSIVE LIQUID, N.O.S.  
 : (Quaternary ammonium compounds, benzyl-C12-16-  
 alkyldimethyl, chlorides)  
 Class : 8  
 Packing group : II  
 Labels : 8

**IATA**

UN number : 1760  
 Description of the goods : Corrosive liquid, n.o.s.  
 : (Quaternary ammonium compounds, benzyl-C12-16-  
 alkyldimethyl, chlorides)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 Packing instruction (cargo  
 aircraft) : 855  
 Packing instruction  
 (passenger aircraft) : 851  
 Packing instruction  
 (passenger aircraft) : Y840

**IMDG-CODE**

UN number : 1760  
 Description of the goods : CORROSIVE LIQUID, N.O.S.  
 : (Quaternary ammonium compounds, benzyl-C12-16-  
 alkyldimethyl, chlorides)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 EmS Number 1 : F-A  
 EmS Number 2 : S-B  
 Marine pollutant : yes

**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.**

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 oysters and shrimp.  
This pesticide is toxic to fish.  
This pesticide is toxic to aquatic invertebrates.

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

##### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

##### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

##### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

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

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 toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

Ethanol 64-17-5

#### Pennsylvania Right To Know

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1  
lanthanum chloride, 10099-58-8  
anhydrous  
Ethanol 64-17-5

#### New Jersey Right To Know

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1  
lanthanum chloride, 10099-58-8  
anhydrous  
Ethanol 64-17-5

#### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TSCA : This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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## SECTION 16. OTHER INFORMATION

SECTIONS REVISED: First formulated version in SAP.  
Major References : Available upon request.

## SAFETY DATA SHEET

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .