

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 BACK WASH**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Supplier

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

**Telephone: +17705215999**  
**Telefax: +17705215959**  
**Web: www.poolspacare.com**

REVISION DATE:	02/18/2016
SUPERCEDES:	05/27/2015
MSDS Number:	000000024438
SYNONYMS:	
CHEMICAL FAMILY:	None
DESCRIPTION / USE	None established
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 4
Corrosive to metals	:	Category 1
Skin irritation	:	Category 2
Serious eye damage	:	Category 1

### GHS label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H227 Combustible liquid. H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P234 Keep only in original container. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ eye protection/ face protection. <b>Response:</b> P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P390 Absorb spillage to prevent material damage. <b>Storage:</b> P403 + P235 Store in a well-ventilated place. Keep cool. P406 Store in corrosive resistant stainless steel container with a resistant inner liner. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Citric Acid	77-92-9	8 - 18
ETIDRONIC ACID	2809-21-4	5 - 15

Butoxyethanol	111-76-2	1 - 11
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.- (NONYLPHENYL)-.	9016-45-9	0 - 8

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## SECTION 4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

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## SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

### Flammable Properties

Fire / Explosion Hazards:	Material may be ignited only if preheated to high temperatures, for example in a fire.
Extinguishing Media:	Use dry chemical, water fog, carbon dioxide (CO <sub>2</sub> ), or foam.
Fire Fighting Instructions:	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.
Hazardous Combustion Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Use the personal protective equipment recommended in Section 8 and a NIOSH approved 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:** This material is soluble in water. 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). After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways.

**Additional Spill Information :** Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas. Remove all sources of ignition.

**SECTION 7. HANDLING AND STORAGE**

**Handling:** Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapours, mist or gas.

**Storage:** Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.

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

**Empty Container Warning:** Empty containers retain hazardous residue, dispose of accordingly.

**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 :** Avoid contact with skin. Impervious gloves

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

**Protective Clothing Type:** Impervious clothing

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

**Components with workplace control parameters**

Components (CAS-No.)	Value	Control	Basis (Update)
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		parameters	
Butoxyethanol (111-76-2)	TWA	20 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 :	1.0 - 3.0 ( )
Boiling Point:	215.1 °F (101.7 °C)
Melting point/freezing point	no data available
Bulk Density:	( ) no data available
Vapor Pressure:	22.7 hPa
Vapor Density:	0.6
Viscosity:	no data available
Solubility in Water:	soluble in cold water
Partition coefficient n-octanol/water:	no data available
Evaporation Rate:	
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.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures.
Chemical Incompatibility:	Strong oxidizing agents, strong alkalis
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Nitrogen, Aldehydes, Ketones
Decomposition Temperature:	No data

## SECTION 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

Oral LD50 value:

Citric Acid	LD50 = 3,000 mg/kg	Rat
ETIDRONIC ACID	LD50 = 1,440 mg/kg	Rat
Butoxyethanol	LD50 = 1,590 mg/kg	Rat
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.- (NONYLPHENYL)-.	LD50 = 4,000 mg/kg	Rat

Component Animal ToxicologyDermal LD50 value:

Citric Acid	LD50	Believed to be > 2,000 mg/kg	Rabbit
ETIDRONIC ACID	LD50	> 4,764 mg/kg	Rabbit
Butoxyethanol	LD50	580 mg/kg	Rabbit
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.- (NONYLPHENYL)-.	LD50	> 2,000 mg/kg	Rabbit

Component Animal ToxicologyInhalation LC50 value:

Citric Acid	no data available		
ETIDRONIC ACID	no data available		
Butoxyethanol	LC50 4 h	486 ppm	Rat male
	LC50 4 h	450 ppm	Rat female
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.- (NONYLPHENYL)-.	Inhalation LC50	no data available	

Product Animal Toxicity

<u>Oral LD50 value:</u>	LD50	Believed to be > 5,000 mg/kg	Rat
<u>Dermal LD50 value:</u>	LD50	Believed to be > 4,000 mg/kg	Rabbit
<u>Inhalation LC50 value:</u>	no data available		

Skin Irritation:	Moderate skin irritation
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 the eyes, moderately irritating to the skin 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.

Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.	
Citric Acid		This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity or teratogenicity.
ETIDRONIC ACID		This product has been tested and was shown not to produce any adverse effects on reproductive function or fetal development when administered to laboratory animals.
Butoxyethanol		High dose levels of this chemical produced maternal toxicity, and embryoletality and fetal malformations.
Mutagenicity:	Not known or reported to be mutagenic.	
Citric Acid		This product was determined to be non-mutagenic in the Ames assay. It was also shown to be negative in the Dominant lethal assay.
ETIDRONIC ACID		This chemical has been tested and was shown to be non-mutagenic.
Butoxyethanol		This material has been shown to be non-mutagenic in the majority of a battery of assays. Not expected 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.	
Citric Acid		The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.
ETIDRONIC ACID		This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown not to cause cancer in laboratory animals.
Butoxyethanol		This material has been classified by the U.S. EPA as a "Group C" carcinogen (Suggestive Human Carcinogen), based on equivocal and limited evidence in laboratory animals. 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.

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## SECTION 12. ECOLOGICAL INFORMATION

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

Ecological Toxicity Values for: Citric Acid

Lepomis macrochirus (Bluegill sunfish) - (static). 96 h LC50 = 1,516 mg/l

Daphnia magna (Water flea) - 72 h EC50 approximately 120 mg/l

Ecological Toxicity Values for: ETIDRONIC ACID

Bluegill	-	96 h LC50 = 868 mg/l
Rainbow trout ( <i>Salmo gairdneri</i> ),	-	96 h LC50 = 368 mg/l
Channel Catfish ( <i>Ictalurus punctatus rafinesque</i> ),	-	96 h LC50 = 695 mg/l
Sheepshead minnow	-	96 h LC50 = 2,180 mg/l
Daphnia magna,	-	48 h EC50= 527 mg/l
Grass shrimp	-	96 h LC50= 1,770 mg/l
Oyster Shell Deposition	-	96 h EC50= 89 mg/l
Mallard duck	-	Oral LD50 > 2,510 mg/kg
Bobwhite quail	-	Oral LD50 > 2,510 mg/kg

Ecological Toxicity Values for: Butoxyethanol

Lepomis macrochirus (Bluegill sunfish)	-	static test 96 h LC50 = 1,490 mg/l
Brine shrimp	-	static test 24 h LC50= 1,000 mg/l
Daphnia magna (Water flea)	-	static test 48 h EC50> 1,000 mg/l
Crangon crangon (shrimp)	-	48 h LC50= 800 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: D002.

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 : 3265  
Description of the goods : Corrosive liquid, acidic, organic, n.o.s.



Class : (Etidronic acid)  
 : 8  
 Packing group : III  
 Labels : 8  
 Emergency Response : 153  
 Guidebook Number

**TDG**

UN number : 3265  
 Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
 (Etidronic acid)  
 Class : 8  
 Packing group : III  
 Labels : 8

**IATA**

UN number : 3265  
 Description of the goods : Corrosive liquid, acidic, organic, n.o.s.  
 (Etidronic acid)  
 Class : 8  
 Packing group : III  
 Labels : 8  
 Packing instruction (cargo aircraft) : 856  
 Packing instruction (passenger aircraft) : 852  
 Packing instruction (passenger aircraft) : Y841

**IMDG-CODE**

UN number : 3265  
 Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
 (Etidronic acid)  
 Class : 8  
 Packing group : III  
 Labels : 8  
 EmS Number 1 : F-A  
 EmS Number 2 : S-B

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## SECTION 15. REGULATORY INFORMATION

**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**


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

**SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9
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**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**

2-Butoxyethanol	111-76-2
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**Pennsylvania Right To Know**

Citric acid	77-92-9
Etidronic acid	2809-21-4
2-Butoxyethanol	111-76-2
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9

**New Jersey Right To Know**

Citric acid	77-92-9
Etidronic acid	2809-21-4
2-Butoxyethanol	111-76-2
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9

**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 : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

**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)

**SECTION 16. OTHER INFORMATION**

SECTIONS REVISED: 1  
Major References : Available upon request.

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. .