

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 MSDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE  
USA: 1-423-780-2347)

PRODUCT NAME: **ULTIMA CLEAR BY NATURE**

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Advantis Technologies**  
**1400 Bluegrass Lakes Parkway**  
**Alpharetta, GA 30004**

REVISION DATE: 09/23/2013  
SUPERCEDES:

MSDS Number: 000000016446  
SYNONYMS: None  
CHEMICAL FAMILY: Not Applicable/Mixture  
DESCRIPTION / USE: Swimming pool water treatment  
FORMULA: NOT APPLICABLE/MIXTURE

## 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	<b>Mild eye irritant</b>
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Routes of Entry: Skin, eyes, ingestion  
Chemical Interactions: No known interactions  
Medical Conditions Aggravated: None known or reported

### Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

**Hazardous Materials Identification System / National Fire Protection Association Classifications**

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	1	0	0	
NFPA	1	0	0	

**Immediate (Acute) Health Effects**

Inhalation Toxicity:	Not expected to be toxic by inhalation. Not expected to be an inhalation hazard at ambient conditions. Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract.
Skin Toxicity:	Not expected to be irritating to the skin. Not expected to be toxic from dermal contact.
Eye Toxicity:	May cause mild eye irritation. Not considered to be a primary eye irritant. No corneal involvement or visual impairment is expected.
Ingestion Toxicity:	Not expected to be toxic by ingestion. Ingestion may cause mild irritation of the gastrointestinal tract and may also cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea.
Acute Target Organ Toxicity:	May cause mild eye irritation. Ingestion may cause mild gastrointestinal discomfort.

**Prolonged (Chronic) Health Effects**

Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.
Skin Contact:	There are no known or reported effects from chronic exposure.
Skin Absorption:	There are no known or reported effects from chronic exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Chronic Target Organ Toxicity:	There are no known or reported target organ effects from chronic exposure.
Supplemental Health Hazard Information :	No additional health information available.

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

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<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Acetic Acid	64-19-7	

### **4. FIRST AID MEASURES**

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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: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

### **5. FIRE FIGHTING MEASURES**

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Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.
<u>Flammable Properties</u>	
Flash Point:	Not applicable
Autoignition Temperature:	Not applicable
Fire / Explosion Hazards:	Material will not ignite or burn.
Extinguishing Media:	Not Applicable. - Choose extinguishing media suitable for surrounding materials.
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.
Hazardous Combustion Products:	None known
Upper Flammable / Explosive Limit, % in air:	Not applicable
Lower Flammable / Explosive Limit, % in air:	Not applicable

### **6. ACCIDENTAL RELEASE MEASURES**

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Personal Protection for Emergency Situations:	Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.
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Spill Mitigation Procedures

Air Release: Not applicable  
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: Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water.  
Additional Spill Information : 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.

**7. HANDLING AND STORAGE**

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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 and well ventilated place. Keep tightly closed. Avoid freezing.  
Incompatible Materials for Storage: Strong oxidizing agents Bases

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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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.  
Respirator Type : A NIOSH approved air purifying respirator with organic vapor cartridge.  
Skin Protection : Wear impervious gloves to avoid skin contact.  
Eye Protection: Use safety glasses with side shields.  
Protective Clothing Type: Butyl rubber

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
Acetic Acid	64-19-7	ACGIH	10 ppm TWA
Acetic Acid	64-19-7	ACGIH	15 ppm STEL
Acetic Acid	64-19-7	OSHA Z1	10 ppm TWA 25 mg/m3 TWA
Acetic Acid	64-19-7	NIOSH-IDLH	50 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	viscous
Color:	Medium gold to light amber
Odor:	Vinegar, pungent
Molecular Weight:	No data
Specific Gravity :	1.0 - 1.1
pH :	3.0 - 4.5
Boiling Point:	99 °C
Freezing Point:	3 DEG°C 37 DEG°F Approximately
Melting Point:	No data
Density:	No data
Vapor Pressure:	No data
Vapor Density:	No data
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	Soluble
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	No data
Volatiles, % by vol.:	No data
VOC Content	No data
HAP Content	No data

## 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Contact with incompatible substances, Avoid freezing.
Chemical Incompatibility:	Strong oxidizing agents, Strong bases
Hazardous Decomposition Products:	Hazardous decomposition will not occur.

Decomposition Temperature: No data

## 11. TOXICOLOGICAL INFORMATION

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### Component Animal Toxicology

#### Oral LD50 value:

Acetic Acid LD50 3,310 mg/kg Rat

### Component Animal Toxicology

#### Dermal LD50 value:

Acetic Acid LD50 1,060 mg/kg Rabbit

### Component Animal Toxicology

#### Inhalation LC50 value:

Acetic Acid Inhalation LC50 1 h 5,620 ppm Mouse

### Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 5,000 mg/kg Rat

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

Inhalation LC50 value: No data

Skin Irritation: Not expected to be irritating to the skin.

Eye Irritation: May cause mild eye irritation.

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

Acute Toxicity: May cause mild eye irritation. Ingestion may cause mild gastrointestinal discomfort.

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.

Mutagenicity: Not known or reported to be mutagenic.  
Acetic Acid 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

Acetic Acid source including IARC, OSHA, NTP or EPA.  
This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

## 12. ECOLOGICAL INFORMATION

Overview: There is no data available for this product.

### Ecological Toxicity Values for: Acetic Acid

- Pimephales promelas (fathead minnow) - static test 96 h LC50 = 79 mg/l
- static test 96 h LC50 = 251 mg/l
- Daphnia magna (Water flea) - static test 48 h EC50= 65 mg/l

## 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 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.

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

Potential US EPA Waste Codes : Not applicable

## 14. TRANSPORT INFORMATION

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL

Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point: Not applicable  
 Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,  
 Emergency Response Guide Number: Not applicable

**15. REGULATORY INFORMATION**

**UNITED STATES:**

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.  
 EPA Pesticide Registration Number: None established  
 FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard  
 Physical None

**Emergency Planning & Community Right to Know (40 CFR 355, App. A):**

**Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:**

ZUS\_SAR302 TPQ (threshold planning quantity) None established

**Reportable Quantity (49 CFR 172.101, Appendix):**

ZUS\_CERCLA Reportable quantity Acetic acid Value: 5,000lbs  
 ZUS\_SAR302 Reportable quantity None established

**Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components**

ZUS\_SAR313 De minimis concentration None established

**Clean Air Act Toxic ARP Section 112r:**

CAA 112R None established

**Clean Air Act Socmi:**

HON SOC

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table

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REVISION DATE : 09/23/2013



1)  
07 1999  
Group II  
ACETIC ACID

**Clean Air Act VOC Section 111:**  
CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCM Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)  
01 1996  
ACETIC ACID

**Clean Air Act Haz. Air Pollutants Section 112:**

ZUS\_CAAHAP                      None established

ZUS\_CAAHRP                      None established

CAA AP                              None established

**State Right-to-Know Regulations Status of Ingredients**

**Pennsylvania:**

CAS #	COMPONENT NAME
	acetic acid

ZUSPA\_RTK

Pennsylvania: Hazardous substance list  
1990-01-01  
ACETIC ACID, WATER SOLUTIONS  
Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list  
1990-01-01  
ACETIC ACID  
Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list  
1989-08-11  
ACETIC ACID  
Environmental hazard

**New Jersey:**

CAS #	COMPONENT NAME
	acetic acid

ZUSNJ\_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
2007-03-01  
ACETIC ACID ETHANOIC ACID  
Special Health Hazard - Corrosive

**Massachusetts:**

CAS #	COMPONENT NAME
	acetic acid

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications  
1993-04-24  
ACETIC ACID ACETIC ACID GLACIAL

**California Proposition 65:**

CAS #	COMPONENT NAME
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ZUSCA\_P65                      None established

**WHMIS Hazard Classification:**

None established

**16. OTHER INFORMATION**

MSDS REVISION STATUS :  
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. .