SAFETY DATA SHEET

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 ENZYME CLARIFIER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier REVISION DATE: 05/27/2015

Ultima SUPERCEDES: 09/15/2011 1400 Bluegrass Lakes Parkway ,

Alpharetta, GA, 30004 MSDS Number: 000000024437

SYNONYMS:
CHEMICAL FAMILY: None

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

CHEMICAL PAMILT:

DESCRIPTION / USE
FORMULA:

None established
None established

Manufacturer
Advantis Technologies
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004

United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance according to GHS.

GHS Label element

Not a dangerous substance according to GHS.

Other hazards

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME Unknown	CAS#	% RANGE 20 - 30
deuterium oxide	7789-20-0	0 - 9
PROPYLENE GLYCOL	57-55-6	0 - 7
2-PROPEN-1-AMINIUM, N,N-DIMETHYL- N-2-PROPENYL-, C	26062-79-3	0 - 6

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: 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.

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: 0 - Will not burn

Extinguishing Media: Water spray Foam Dry powder Carbon dioxide (CO2)

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

Situations: and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Keep people away from and upwind of spill/leak.

Water Release: If the product contaminates rivers and lakes or drains inform

respective authorities.

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).Do not contaminate ponds, waterways or ditches with

chemical or used container.

Additional Spill Information : Prevent further leakage or spillage if safe to do so. Use personal

protective equipment as required. Evacuate personnel to safe areas.

SECTION 7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not take internally.lf in

eyes or on skin, rinse well with water.

Storage: Store in a cool, dry and well ventilated place. Isolate from

incompatible materials.

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 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.

Skin Protection: Impervious gloves

Eye Protection: Safety glasses with side-shields

Protective Clothing Type: impervious clothing

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
PROPYLENE GLYCOL (57-55-6)	TWA	10 mg/m3	WEEL (2012)

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form No data.
Color: No data.
Odor: No data.

Molecular Weight: None established

pH: 5.9 - 6.0

()

Boiling Point: no data available

Melting point/freezing

point

No data

Density Not applicable

Bulk Density: ()

no data available

Vapor Pressure: no data available
Vapor Density: no data available
Viscosity: no data available
Solubility in Water: soluble

Solubility in Water: Partition coefficient n-

No data.

octanol/water:

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 SOCMI 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: Heat

Chemical Incompatibility: Oxidizing agents, Metals

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx), Ammonia, Hydrogen

chloride

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

PROPYLENE GLYCOL LD50 > 5,000 mg/kg Rat

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2-PROPEN-1- LD50 > 5,000 mg/kg Rat

AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C

Component Animal Toxicology

Dermal LD50 value:

PROPYLENE GLYCOL LD50 > 2,000 mg/kg Rabbit 2-PROPEN-1- LD50 > 20,000 mg/kg Rabbit

AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C

Component Animal Toxicology

Inhalation LC50 value:

PROPYLENE GLYCOL No data

2-PROPEN-1- No data

AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C

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 > 2,000 mg/kg Rabbit

Inhalation LC50 LC50 no data available

value:

Skin Irritation: Not expected to cause irritation. Eye Irritation: Not Irritating to the Eyes

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

Acute Toxicity: There are no known or reported target organ effects from acute exposure.

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

Toxicity:

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

Developmental Toxicity:

PROPYLENE GLYCOL This chemical has been tested in laboratory animals

and no evidence of teratogenicity, embryotoxicity or

fetotoxicity was seen.

Mutagenicity: Not known or reported to be mutagenic.

PROPYLENE GLYCOL This product has been shown to be non-mutagenic

based on a battery of assays.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

PROPYLENE GLYCOL The carcinogenicity has been evaluated through animal

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study and it was found not to be carcinogenic.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Slightly toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

Rainbow trout (Salmo gairdneri), - 96 h LC50 Believed to be approximately 37 mg/l (calculated)

Ecological Toxicity Values for: PROPYLENE GLYCOL

Rainbow trout (Salmo gairdneri), - (nominal, static). 24 h LC50 > 50,000 mg/l Goldfish - (measured, static) 24 h LC50 > 5,000 mg/l

Pimephales promelas (fathead - nominal 96 h LC50 > 62,000 mg/l

minnow)

Brine shrimp - (nominal, static). 24 h LC50> 10,000 mg/l Daphnia magna. - (nominal, static). 48 h EC50> 10,000 mg/l

Ecological Toxicity Values for: 2-PROPEN-1-AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C

Bluegill sunfish - 96 h LC50 = 0.82 - 1.3 mg/l, (40% Solution)

Rainbow trout (Salmo gairdneri), - 96 h LC50 0.37 mg/l (40% Solution)

Daphnia magna, - 48 h LC50= 0.9 mg/l (In clear water), (40% Solution)

Daphnia magna, - 48 h LC50= 1.2 - 2.5 mg/l, (In 50 ppm clay suspension), (40%

Solution)

Daphnia magna, - 48 h LC50= 24.8 mg/l (In 1000 ppm clay suspension), (40%

Solution)

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 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 solid waste it should be disposed of in accordance with local, state

and federal regulations.

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SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG-CODE

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	

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 12 (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 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

> Sodium hydroxide 1310-73-2 0.007 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

> Sodium hydroxide 0.007 % 1310-73-2

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

No components are subject to the Massachusetts Right to

Know Act.

Pennsylvania Right To Know

57-55-6 Propane-1,2-diol

New Jersey Right To Know

57-55-6 Propane-1,2-diol 2-Propen-1-aminium, N,N-26062-79-3

dimethyl-N-2-propenyl-, chloride, homopolymer

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.

Lipidase Liquid 10000 Oil Eater Concentrate

Inventories

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

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 2, 11

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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.

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