FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: ULTIMA ENDURE WATER CONDITIONER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Advantis Technologies 1200 Bluegrass Lakes Parkway

Alpharetta, GA 30004

REVISION DATE: 05/26/2015

SUPERCEDES:

MSDS Number: 000000026582

SYNONYMS: Sodium tetraborate pentahydrate,

disodium tetraborate pentahydrate,

borax pentahydrate

CHEMICAL FAMILY: Inorganic borates

DESCRIPTION / USE Swimming pool water treatment

FORMULA: Na2B4O7.5H2O

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Reproductive toxicity Category 1B

GHS Label element

Hazard pictograms

Signal word Danger

Hazard statements H360 May damage fertility or the unborn child.

Precautionary statements **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

ULTIMA ENDURE WATER CONDITIONER

REVISION DATE: 05/26/2015 Page 1 of 9 attention. **Storage:**

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

CAS OR CHEMICAL NAMECAS #% RANGESodium tetraborate pentahydrate12179-04-398 - 100

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.

SECTION 5. FIREFIGHTING MEASURES

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Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or

explosive.

Flammable Properties

Flash Point: Not applicable Autoignition Temperature: Not applicable

Fire / Explosion Hazards: Material will not ignite or burn.

Extinguishing Media: 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. Use water to cool

containers.

Hazardous Combustion Products: None known Upper Flammable / Explosive Limit, Not applicable

% in air:

Lower Flammable / Explosive Limit,

% in air:

Not applicable

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: Contain all solids for treatment or disposal.

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: Sweep up and place in suitable clean, dry containers for reclamation

or later disposal.Do not place spill materials back in their original containers.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 nonessential 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 inhalation

of dust and fumes.

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

incompatible materials. Avoid creating dusts. Moisture may cause

"caking".

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

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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.

Respirator Type: Wear a NIOSH approved N95 respirator. Skin Protection: Wear impervious gloves to avoid skin contact.

Eve Protection: Use safety glasses with side shields.

Protective Clothing Type: **Impervious**

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
Sodium tetraborate pentahydrate (12179-04-3)	TWA	2 mg/m3	ACGIH (02 2014)
	STEL	6 mg/m3	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid

Form crystalline solid

Color: white Odor: None

291.35 g/mol Molecular Weight: 9.3 3% solution pH: **Boiling Point:** Not applicable No data

Melting point/freezing

point Density:

No data

Negligible @ 20 Deg. C Vapor Pressure:

Vapor Density: No data Viscosity: No data Fat Solubility: No data

3.8% @ 20°C; 51.2% @ 100°C Solubility in Water:

Partition coefficient n-No data

octanol/water:

Evaporation Rate: Not applicable

Oxidizing: No data Volatiles, % by vol.: No data

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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 No data

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions. When heated it loses water,

eventually forming anhydrous borax. Product will not undergo

hazardous polymerization.

Conditions to Avoid: High temperatures, Contact with incompatible substances

Chemical Incompatibility: Strong oxidizing agents, acids, metals, Zirconium, Reaction with

strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create an explosive

hazard.

Hazardous Decomposition Products: Boron oxides, Sodium oxide

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Sodium tetraborate

LD50 3,200 - 3,400 mg/kg = Rat

pentahydrate

Component Animal Toxicology

Dermal LD50 value:

Sodium tetraborate

LD50 > 2,000 mg/kg Rabbit

pentahydrate

Component Animal Toxicology

Inhalation LC50 value:

Sodium tetraborate Inhalation LC50

Inhalation LC50 4 h > 2 mg/l Rat

pentahydrate

Product Animal Toxicity

<u>Oral LD50 value</u>: LD50 3,200 - 3,400 mg/kg = Rat <u>Dermal LD50 value</u>: LD50 > 2,000 mg/kg Rabbit

Inhalation LC50 Inhalation LC50 4 h > 2.0 mg/l Rat

value:

Skin Irritation: Not expected to be irritating. Eye Irritation: Not expected to be irritating.

Skin Sensitization: This material tested negative for skin sensitization in humans and laboratory

animals.

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

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Subchronic / Chronic Toxicity:

There are no known or reported effects to humans from repeated exposure to this

product.

Reproductive and Developmental Toxicity: Boric acid has been evaluated in several laboratory animal species and in only one species was found to cause fetotoxicity at maternally toxic doses.

Based on this data, this product may have the potential to cause

developmental toxicity.

Sodium tetraborate pentahydrate

Boric acid has been evaluated in several laboratory animal species and in only one species was found to cause fetotoxicity at maternally toxic doses. Based on this data, this product may have the potential to cause

developmental toxicity.

Mutagenicity: This chemical 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. Chemicals of similar structure

have been shown not to cause cancer in laboratory animals.

SECTION 12. ECOLOGICAL INFORMATION

Ecological Toxicity Values for: Sodium tetraborate pentahydrate

Rainbow trout (embryo - larval -24 day LC50 (chronic toxicity) = 88 mg/l

stage)

24 h EC50= 242 mg/l

Daphnia magna, - Green algae (Scenedesmus -96 h EC10 = 24 mg/l

subspicatus)

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

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and federal regulations.

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

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

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).

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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).

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

Sodium tetraborate 12179-04-3

pentahydrate

Pennsylvania Right To Know

Sodium tetraborate 12179-04-3

pentahydrate

New Jersey Right To Know

Sodium tetraborate 12179-04-3

pentahydrate

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), TSCA (USA)

SECTION 16. OTHER INFORMATION

Major References : Available upon request.

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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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