FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

1-800-654-6911 (OUTSIDE

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: Salt Solutions by Ultima Algaecide

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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

02/11/2016

SUPERCEDES:

08/20/2015

MSDS Number:

000000024398

SYNONYMS: CHEMICAL FAMILY: none None

DESCRIPTION / USE

Water treatment chemical

FORMULA:

None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation

Category 2

Eye irritation

Category 2A

GHS label elements

Hazard pictograms

Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

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5 - 15

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P402 + P404 Store in a dry place. Store in a closed container. P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME
POLY [OXYETHYLENE 31512-74-0 15 - 23

(DIMETHYLIMINIO) ETHYLENE

2-PROPEN-1-AMINIUM, N,N-DIMETHYL- 26062-79-3 N-2-PROPENYL-, C

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.

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SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA):

Combustible above 93 deg. C / 200 deg. F.

Flammable Properties

Flash Point:

> 93 °C

Autoignition Temperature:

Fire / Explosion Hazards:

Extinguishing Media: Fire Fighting Instructions:

no data available May be ignited by open flame.

Use dry chemical, water fog, carbon dioxide (CO2), or foam. 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.

Upper Flammable / Explosive Limit,

% in air:

Lower Flammable / Explosive Limit,

% in air:

no data available

no data available

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:

Not applicable

Water Release:

solublelf 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:

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."

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation No exposure limits exist for the constituents of this product. Additional

ventilation beyond that of general exhaust is not normally required.

Protective Equipment for Routine Use of Product

Respiratory Protection:

Respiratory protection not normally needed.

Skin Protection:

Impervious gloves

Eye Protection:

Safety glasses with side-shields

Protective Clothing Type:

Impervious clothing

Components with workplace control parameters

no data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

liquid

Form

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

Color:

Odor:

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

Molecular Weight:

None established

pH:

6.0 - 8.0

Boiling Point:

212 °F (100 °C)

Melting point/freezing

Not applicable

point

Bulk Density:

()

Vapor Pressure:

no data available no data available

Vapor Density: Viscosity:

no data available no data available

Solubility in Water:

soluble

Partition coefficient n-

no data available

octanol/water: Evaporation Rate:

no data available None established

Oxidizing: 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.

Not applicable **HAP Content**

SECTION 10. STABILITY AND REACTIVITY

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Stability and Reactivity Summary:

Stable under normal conditions.

Conditions to Avoid:

Heat

Chemical Incompatibility:

Oxidizing agents

Decomposition Temperature:

No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

POLY [OXYETHYLENE LD50 (60% Active Ingredient) = 1,951 mg/kg Rat male

(DIMETHYLIMINIO)

ETHYLENE

LD50 (60% Active Ingredient) = 2,587 mg/kg Rat female

2-PROPEN-1-

LD50 > 5,000 mg/kg Rat

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

Component Animal Toxicology

Dermal LD50 value:

POLY JOXYETHYLENE

LD50 (60% Active Ingredient) > 2,000 mg/kg Rabbit

(DIMETHYLIMINIO)

ETHYLENE

2-PROPEN-1-

LD50 > 20,000 mg/kg Rabbit

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

Component Animal Toxicology

Inhalation LC50 value:

POLY [OXYETHYLENE LC50 4 h (60% Active Ingredient) = 2.9 ppm Rat

(DIMETHYLIMINIO)

ETHYLENE

2-PROPEN-1-

no data available

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

Product Animal Toxicity

Oral LD50 value:

Believed to be > 2,000 mg/kg Believed to be > 2,000 mg/kg

Dermal LD50 value: Inhalation LC50

No data.

value.

Skin Irritation: Eye Irritation:

Not expected to cause irritation. Not expected to cause irritation.

Skin Sensitization:

Not believed to be sensitising to skin.

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Subchronic / Chronic

There are no known or reported effects from chronic exposure.

Toxicity.

Reproductive and Developmental Toxicity:

Not known or reported to cause reproductive or developmental toxicity.

Mutagenicity

Not known or reported to be mutagenic.

Carcinogenicity:

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

source including IARC, OSHA, NTP or EPA.

POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE

A two-year rat carcinogenicity study showed a slight increase in c-cell adenomas in female rats. Studies with male rats and male and female mice did not show any evidence of carcinogenic response. This product is not

considered a carcinogen

SECTION 12. ECOLOGICAL INFORMATION

Overview:

No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE

Rainbow trout (Salmo gairdneri), - 96 h LC50 = 0.047 mg/l Bluegill sunfish - 96 h LC50 = 0.21 mg/l

Pimephales promelas (fathead - 96 h LC50 = 0.26 mg/l

minnow)

Mysid shrimp - 96 h LC50= 13 mg/l

Daphnia magna, - 48 h LC50= 0.37 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

Salt Solutions by Ultima Algaecide

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 liquid waste, it should be disposed of in accordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3082

Description of the goods : Environmentally hazardous substance, liquid, n.o.s.

(Poly[oxyethylene (dimethyliminio) ethylene])

Class : 9
Packing group : III
Labels : 9
Emergency Response : 171

Guidebook Number

TDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Poly[oxyethylene (dimethyliminio) ethylene])

Class : 9
Packing group : III
Labels : 9

IATA

UN number : 3082

Description of the goods : Environmentally hazardous substance, liquid, n.o.s.

(Poly[oxyethylene (dimethyliminio) ethylene])

Class :

Packing group : III
Labels : 9MI
Packing instruction (cargo : 964

aircraft)

Packing instruction : 964

(passenger aircraft)

Packing instruction : Y964

(passenger aircraft)

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IMDG-CODE

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Poly[oxyethylene (dimethyliminio) ethylene])

Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F

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 : CAUTION!

Hazard statements : Harmful if swallowed.

Harmful if absorbed through skin.

Harmful if inhaled.

Causes moderate eye irritation. This pesticide is toxic to fish.

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).

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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).

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

Pennsylvania Right To Know

Poly[oxyethylene (dimethyliminio) ethylene] 2-Propen-1-aminium, N,N- dimethyl-N-2-propenyl-, chloride, homopolymer	31512-74-0 26062-79-3
Poly[oxyethylene	31512-74-0
(dimethyliminio) ethylene] 2-Propen-1-aminium, N,N-	26062-79-3

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

New Jersey Right To Know

Poly[oxyethylene	31512-74-0
(dimethyliminio) ethylene] 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:

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TSCA

: This is an EPA registered pesticide.

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.

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