

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: **LEISURE TIME INSTANT CARTRIDGE CLEAN**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier

Leisure Time

1400 Bluegrass Lakes Parkway ,
Alpharetta, GA, 30004
USA

Telephone: +17705215959

Telefax: +17705215959

Web: www.poolspacare.com

REVISION DATE:

02/23/2016

SUPERCEDES:

08/21/2015

MSDS Number:

000000024471

SYNONYMS:

None

CHEMICAL FAMILY:

None

DESCRIPTION / USE

Cleaning agent

FORMULA:

None established

Manufacturer

Advantis Technologies

1200 Bluegrass Lakes Parkway

Alpharetta, GA 30004

United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation

: Category 2

Serious eye damage

: Category 1

Specific target organ toxicity -
single exposure

: Category 3 (Respiratory system)

GHS label elements

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

Precautionary statements

:

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear eye protection/ face protection.
 P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 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.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 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

| <u>CAS OR CHEMICAL NAME</u> | <u>CAS #</u> | <u>% RANGE</u> |
|--|--------------|----------------|
| Butoxyethanol | 111-76-2 | 3 - 13 |
| POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(NONYLPHENYL)- | 9016-45-9 | 0 - 10 |
| ETIDRONIC ACID | 2809-21-4 | 0 - 9 |

Citric Acid

77-92-9

0 - 7

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.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Combustible above 93 deg. C / 200 deg. F.

Flammable Properties

Flash Point: > 93.3 °C

Fire / Explosion Hazards: Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition.

Extinguishing Media: Use dry chemical, water fog, carbon dioxide (CO₂), 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.

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 : | Remove all sources of ignition. 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. |

SECTION 7. HANDLING AND STORAGE

| | |
|-------------------------------------|--|
| Handling: | Do not take internally. Avoid contact with skin, eyes and clothing by wearing proper protective equipment. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor. |
| Storage: | Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. |
| 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 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 parameters | Basis (Update) |
|----------------------|-------|--------------------|----------------|
|----------------------|-------|--------------------|----------------|

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 |
| Density | Not applicable |
| 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: | 16 |
| 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 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, flames and sparks. |
| Chemical Incompatibility: | Strong oxidizing agents, Strong acids, Alkalis |
| Hazardous Decomposition Products: | Carbon oxides, Nitrogen, Aldehydes, Ketones |
| Decomposition Temperature: | No data |

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

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

Component Animal ToxicologyDermal LD50 value:

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

Component Animal ToxicologyInhalation LC50 value:

| | | | |
|--|-----------------|-------------------|------------|
| 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 | |
| ETIDRONIC ACID | | no data available | |
| Citric Acid | | 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 > 5,000 mg/kg | Rabbit |
| <u>Inhalation LC50 value:</u> | | no data available | |

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|---------------------|--|
| 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. | |
| Butoxyethanol | | High dose levels of this chemical produced maternal toxicity, and embryoletality and fetal malformations. |
| 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. |
| Citric Acid | | This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity or teratogenicity. |
| Mutagenicity: | Not known or reported to be 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. |
| ETIDRONIC ACID | | This chemical has been tested and was shown to be non-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. |
| Carcinogenicity: | This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. | |
| 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. |
| 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. |
| Citric Acid | | The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic. |

SECTION 12. ECOLOGICAL INFORMATION

Overview: Practically non- toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

- EC50 Believed to be approximately 1,100 mg/l (calculated)

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 |

Ecological Toxicity Values for: ETIDRONIC ACID

| | |
|---|---------------------------|
| Bluegill | - 96 h LC50 = 868 mg/l |
| Rainbow trout (Salmo gairdneri), | - 96 h LC50 = 368 mg/l |
| Channel Catfish (Ictalurus punctatus rafinesque), | - 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: Citric Acid

| | |
|--|------------------------------------|
| Lepomis macrochirus (Bluegill sunfish) | - (static). 96 h LC50 = 1,516 mg/l |
| Daphnia magna (Water flea) | - 72 h EC50approximately 120 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.
 : (Etidronic acid)
 Class : 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

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

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 |
|---|-----------|

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 |
|-----------------|----------|

Pennsylvania Right To Know

| | |
|-----------------|----------|
| 2-Butoxyethanol | 111-76-2 |
|-----------------|----------|

| | |
|---|----------------------------|
| Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy- Etidronic acid | 9016-45-9 2809-21-4 |
|---|----------------------------|

New Jersey Right To Know

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

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 : THIS PRODUCT CONTAINS ONE OR MORE COMPONENTS WHICH WERE NOT FOUND ON THE TSCA INVENTORY.

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: 5
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. .