

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 DEFENDER**

## 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: 05/26/2015  
SUPERCEDES: 08/10/2009

MSDS Number: 000000024465  
SYNONYMS:  
CHEMICAL FAMILY: None  
DESCRIPTION / USE: None established  
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  
Eye irritation : Category 2B  
Carcinogenicity : Category 2

### GHS Label element

Hazard pictograms :



Signal word	:	Warning
Hazard statements	:	H227 Combustible liquid. H315 Causes skin irritation. H320 Causes eye irritation.
Precautionary statements	:	<p><b>Prevention:</b>  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P264 Wash hands thoroughly after handling.  P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p><b>Response:</b>  P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  P321 Specific treatment (see supplemental first aid instructions on this label).  P332 + P313 If skin irritation occurs: Get medical advice/ attention.  P362 + P364 Take off contaminated clothing and wash it before reuse.  P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P337 + P313 If eye irritation persists: Get medical advice/ attention.</p> <p><b>Storage:</b>  P403 + P235 Store in a well-ventilated place. Keep cool.  P405 Store locked up.</p> <p><b>Disposal:</b>  P501 Dispose of contents/container in accordance with local regulation.</p>

**Other hazards**

None known.

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

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
GLYCINE, N- (2-BIS(CARBOXYMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, Trisodium Salt	139-89-9	0 - 10
Citric Acid	77-92-9	0 - 6
Trisodium nitrilotriacetate	5064-31-3	0 - 5

No hazardous ingredients

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## 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.

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## SECTION 5. FIREFIGHTING MEASURES

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

### Flammable Properties

Flash Point:	No data.
Fire / Explosion Hazards:	0 - Will not burn
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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.
Upper Flammable / Explosive Limit, % in air:	No data
Lower Flammable / Explosive Limit, % in air:	No data

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## 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:	Vapors may be suppressed by the use of water fog.
Water Release:	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 : Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

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## 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., If vapors, mists or aerosols are generated, wear a NIOSH approved respirator., 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 : Impervious gloves

Eye Protection: Safety glasses with side-shields

Protective Clothing Type: impervious clothing

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

No hazardous ingredients

### Components with workplace control parameters

no data available

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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 :	6.0 - 8.0 ( )
Boiling Point:	212 °F (100 °C)
Melting point/freezing point	No data
Density	Not applicable
Vapor Pressure:	No data
Vapor Density:	> 1
Viscosity:	no data available
Solubility in Water:	Miscible
Partition coefficient n-octanol/water:	No data.
Evaporation Rate:	No data
Oxidizing:	None established
Volatiles, % by vol.:	No data
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., Product will not undergo hazardous polymerization.
Conditions to Avoid:	Heat, Avoid freezing.
Chemical Incompatibility:	Strong oxidizing agents
Hazardous Decomposition Products:	Oxides of nitrogen, Carbon oxides, Sulphur oxides, Hydrogen chloride gas
Decomposition Temperature:	No data

## SECTION 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

GLYCINE, N- (2-BIS(CARBOXYMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, Trisodium Salt	LD50	Approximately 10,000 mg/kg	Rat
Citric Acid	LD50	= 3,000 mg/kg	Rat
Trisodium nitrilotriacetate		> 1,100.0 mg/kg	Rat

Component Animal ToxicologyDermal LD50 value:

GLYCINE, N- (2-  
BIS(CARBOXMETHYL)  
AMINO)ETHYL)-N-2-  
HYDROXYETHYL)-,  
Trisodium Salt                      no data available

Citric Acid                      LD50    Believed to be > 2,000 mg/kg    Rabbit

Component Animal ToxicologyInhalation LC50 value:

GLYCINE, N- (2-  
BIS(CARBOXMETHYL)  
AMINO)ETHYL)-N-2-  
HYDROXYETHYL)-,  
Trisodium Salt                      Rats exposed for 8 hours to an unknown concentration of the test substance  
resulted in no deaths and no clinical signs of toxicity observed in the animals.

Citric Acid                      no data available

Trisodium                      LC50 4 h >    5 mg/l    Rat  
nitrilotriacetate

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 available

Skin Irritation:                      This material is expected to be slightly irritating.

Eye Irritation:                      This material is expected to be slightly irritating.

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

GLYCINE, N- (2-  
BIS(CARBOXMETHYL)AMINO)ETHY                      A similar product was found to be a negative skin  
L)-N-2-HYDROXYETHYL)-,  
Trisodium Salt                      sensitizer in the Guinea pig maximization method test.

Trisodium nitrilotriacetate

Acute Toxicity:                      May cause mild skin and eye irritation. Ingestion may cause mild gastrointestinal  
discomfort. Inhalation of mist or vapor may cause irritation to the mucous  
membranes of the respiratory tract.

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:

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.

GLYCINE, N- (2-BIS(CARBOXMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, Trisodium Salt  
Citric Acid

This product was determined to be non-mutagenic in the Ames assay.

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: The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 2B substance, Possibly Carcinogenic to Humans.

Citric Acid  
Trisodium nitrilotriacetate

The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.

The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 2B substance, Possibly Carcinogenic to Humans.

## SECTION 12. ECOLOGICAL INFORMATION

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

### Ecological Toxicity Values - Product:

- EC50 Believed to be approximately 4,100 mg/l (calculated)

### Ecological Toxicity Values for: GLYCINE, N- (2-BIS(CARBOXMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, Trisodium Salt

- Leuciscus idus (Golden orfe) - static test 96 h LC50 > 2,200 mg/l
- Daphnia magna (Water flea) - static test 48 h EC50 > 500 mg/l

### Ecological Toxicity Values for: Citric Acid

- Lepomis macrochirus (Bluegill sunfish) - (static). 96 h LC50 = 1,516 mg/l
- Daphnia magna (Water flea) - 72 h EC50 Approximately 120 mg/l

### Ecological Toxicity Values for: Trisodium nitrilotriacetate

- Lepomis macrochirus (Bluegill sunfish) - 96 h LC50 = 198 mg/l
- Pimephales promelas (fathead minnow) - 96 h LC50 = 127 mg/l
- Oncorhynchus mykiss (rainbow trout) - 96 h LC50 = 98 mg/l
- Daphnia magna (Water flea) - 48 h LC50 = 560 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 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

Not dangerous goods

### TDG

UN number : 3267  
 Description of the goods : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
 (Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt, Trisodium nitrilotriacetate)  
 Class : 8  
 Packing group : II  
 Labels : 8

### IATA

UN number : 3267  
 Description of the goods : Corrosive liquid, basic, organic, n.o.s.  
 (Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt, Trisodium nitrilotriacetate)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 Packing instruction (cargo aircraft) : 855  
 Packing instruction (passenger aircraft) : 851  
 Packing instruction : Y840



(passenger aircraft)

**IMDG-CODE**

UN number : 3267  
 Description of the goods : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
 (Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt, Trisodium nitrilotriacetate)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 EmS Number 1 : F-A  
 EmS Number 2 : S-B

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## 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 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**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	0.324 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sodium hydroxide	1310-73-2	0.324 %
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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

Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt	139-89-9
Sodium hydroxide	1310-73-2

#### New Jersey Right To Know

Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, trisodium salt	139-89-9
Citric acid	77-92-9
Sodium hydroxide	1310-73-2

#### 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.

: dye Pylaklor Brill Green

#### Inventories

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

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## SECTION 16. OTHER INFORMATION

SECTIONS REVISED: First formulated version in SAP.  
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. .