

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

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE
USA: 1-423-780-2970)1-800-424-9300 (OUTSIDE
USA: 1-703-527-3887)1-800-511-MSDS (OUTSIDE
USA: 1-423-780-2347)**PRODUCT NAME: LEISURE TIME DEFENDER****1. PRODUCT AND COMPANY IDENTIFICATION****Supplier****Leisure Time
1400 Bluegrass Lakes Parkway ,
Alpharetta, GA, 30004
United States****Telephone: +17705215999****Telefax: +17705215959****Web: www.poospacare.com**

REVISION DATE:

04/26/2011

SUPERCEDES:

08/10/2009

MSDS Number:

000000012550

SYNONYMS:

CHEMICAL FAMILY:

None

DESCRIPTION / USE

None established

FORMULA:

None established

Manufacturer**Advantis Technologies
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004
United States of America****2. HAZARDS IDENTIFICATION**OSHA Hazard
Classification:**Mild eye irritant, Mild skin irritant, Possible cancer hazard**

Routes of Entry:

Skin, eyes, ingestion

Chemical Interactions:

None known.

Medical Conditions Aggravated:

None known.

Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

Hazardous Materials Identification System / National Fire Protection Association Classifications

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	1	0	0	
NFPA	1	0	0	

Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to be an inhalation hazard at ambient conditions. Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract. Any irritation would be transient with no permanent damage expected.

Skin Toxicity: May cause skin irritation. Not expected to be toxic from dermal contact.

Eye Toxicity: May cause eye irritation. No corneal involvement or visual impairment is expected.

Ingestion Toxicity: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Not expected to be toxic by ingestion.

Acute Target Organ 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.

Prolonged (Chronic) Health Effects

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.

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

Inhalation: There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.

Skin Contact: There are no known or reported effects from chronic exposure except for effects (if any) similar to those experienced from acute exposure.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.

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

Chronic Target Organ Toxicity: There are no known or reported target organ effects from chronic exposure.

Supplemental Health Hazard Information : No additional health information available.

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	
Citric Acid	77-92-9	
Trisodium nitrilotriacetate	5064-31-3	

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.

5. FIRE FIGHTING 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:	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.

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.
<u>Spill Mitigation Procedures</u>	
Air Release:	Vapors may be suppressed by the use of water fog.
Water Release:	completely miscible. 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.

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 vapors, 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."

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.
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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.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
No Data Found			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	No data.
Color:	No data.
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	1.03 - 1.05
	20 °C
pH :	6.0 - 8.0
Boiling Point:	100 °C
	212 °F
Freezing Point:	
	not applicable
Melting Point:	
	not applicable
Density:	Not applicable
Bulk Density:	no data available
Vapor Pressure:	no data available
Vapor Density:	> 1
Viscosity:	no data available
Solubility in Water:	completely miscible
Partition coefficient n-octanol/water:	Not applicable
Evaporation Rate:	<1

Oxidizing:	None established
Volatiles, % by vol.:	
VOC Content	no data available
HAP Content	Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions.
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

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 Toxicology

Dermal LD50 value:

GLYCINE, N- (2-BIS(CARBOXYMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, Trisodium Salt		no data available
Citric Acid	LD50	Believed to be > 2,000 mg/kg rabbit

Component Animal Toxicology

Inhalation LC50 value:

GLYCINE, N- (2-BIS(CARBOXYMETHYL)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 nitrilotriacetate	LC50 4 h	> 5 MG/L rat

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.

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 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.

Citric Acid	This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity or teratogenicity.
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Mutagenicity: GLYCINE, N- (2-BIS(CARBOXYMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, Trisodium Salt Citric Acid	Not known or reported to be mutagenic. 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.
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Carcinogenicity: Citric Acid Trisodium nitrilotriacetate	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. 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.
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12. ECOLOGICAL INFORMATION

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

Ecological Toxicity Values - Product:

LEISURE TIME DEFENDER

REVISION DATE : 04/26/2011

Page 7 of 12

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

Ecological Toxicity Values for: GLYCINE, N- (2-BIS(CARBOXYMETHYL)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

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.

Potential US EPA Waste Codes : not applicable

14. TRANSPORT INFORMATION

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL
 Water (IMDG): UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (GLYCINE, N- (2-BIS(CARBOXYMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, TRISODIUM SALT, TRISODIUM NITRILOTRIACETATE) 8 III Marine Pollutant: No

Air (IATA): UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (GLYCINE, N- (2-BIS(CARBOXYMETHYL)AMINO)ETHYL)-N-2-HYDROXYETHYL)-, TRISODIUM SALT, TRISODIUM NITRILOTRIACETATE) 8 III

Emergency Response Guide Number: ERG # 153

Transportation Notes: Product not regulated for ground transport in the USA per exception permitted in 49 CFR 173.154(d).

EMS: F-A, S-B

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health	Immediate (Acute) Health Hazard
Physical	None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established
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Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	Sodium hydroxide
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Value: 1,000lbs

ZUS_SAR302 Reportable quantity None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313 De minimis concentration None established

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
1310-73-2	SODIUM HYDROXIDE
ZUSPA_RTK	

Pennsylvania: Hazardous substance list

1989-08-11

SODIUM HYDROXIDE

Environmental hazard

New Jersey:

CAS #	COMPONENT NAME
1310-73-2	SODIUM HYDROXIDE
ZUSNJ_RTK	

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

SODIUM HYDROXIDE SODIUM HYDROXIDE (Na(OH)) CAUSTIC SODA SODIUM
HYDRATE

Special Health Hazard - Corrosive

Massachusetts:

CAS #	COMPONENT NAME
1310-73-2	SODIUM HYDROXIDE
5064-31-3	Trisodium nitrilotriacetate

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications
1993-04-24
SODIUM HYDROXIDE

Massachusetts Right to Know List of Chemicals and Hazard Classifications
1993-04-24
NITRILOTRIACETIC ACID TRISODIUM NTA TRISODIUM
Carcinogen, Extraordinarily hazardous

California Proposition 65:

CAS #	COMPONENT NAME
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ZUSCA_P65 None established

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS)
2007-08-24
Threshold limits: 1 Weight percent
80
Citric acid

Ingredient Disclosure List (WHMIS)
2007-08-24
Threshold limits: 1 Weight percent
998
Sodium hydroxide

16. OTHER INFORMATION

MSDS REVISION STATUS :
SECTIONS REVISED: First formulated version in SAP.
LEISURE TIME DEFENDER
REVISION DATE : 04/26/2011 Page 11 of 12

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. .