

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 REPLENISH

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Supplier</u> Leisure Time 1400 Bluegrass Lakes Parkway ,	REVISION DATE: SUPERCEDES:	05/03/2011 07/09/2010
Alpharetta, GA, 30004	MSDS Number:	00000012465
United States	SYNONYMS:	None
Telephone: +17705215999	CHEMICAL FAMILY:	Not Applicable/Mixture
Telefax: +17705215959	DESCRIPTION / USE	Swimming pool water treatment
Web: www.poospacare.com	FORMULA:	None established
<u>Manufacturer</u> Advantis Technologies		

2. HAZARDS IDENTIFICATION

1400 Bluegrass Lakes Parkway

Alpharetta, GA 30004 United States of America

OSHA Hazard Classification:		Moderate skin irritant, Respiratory irritant., Possible skin / inhalation (dust)., Oxidizer
Routes of Entry: Chemical Interactions: Medical Conditions Ag	No l gravated: Asth	llation, skin, eyes, ingestion known interactions ima, respiratory and cardiovascular disease, Skin diseases uding eczema and sensitization



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

Hazard Ratings :	<u>Health</u>	Flammability	Physical / Instability	<u>PPI / Special</u> hazard.
HMIS	3	0	2	
NFPA	3	0	2	OX - NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1 Oxidizer

Immediate (Acute) Health Effects

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	<u>5</u>
Inhalation Toxicity:	Harmful if inhaled. Inhalation of dust may cause mucous membrane and
	lung irritation with symptoms of coughing and choking. Toxic by inhalation (dust).
Skin Toxicity:	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. Dermal
Okin Toxicity.	exposure to dry material causes moderate skin irritation characterized
	by redness and swelling. Dermal exposure to wet material can cause
	severe irritation and/or burns characterized by redness, swelling and
	scab formation. Prolonged skin exposure may cause permanent
	damage.
Eye Toxicity:	Severe irritation and/or burns can occur following exposure. Direct
	contact may cause impairment of vision and corneal damage. Rinsing of
	the eye should take place immediately.
Ingestion Toxicity:	May be harmful if swallowed. Ingestion may cause moderate to severe
	irritation of the gastrointestinal tract and may also cause gastrointestinal
	discomfort with any or all of the following symptoms: nausea, vomiting or
Acute Target Organ Toxicity:	diarrhea. Moderately toxic if swallowed. Corrosive to the eyes, moderately irritating to the skin and respiratory
Acute rarget Organ Toxicity.	tract and moderately to severely irritating to the gastrointestinal tract.,
	The dry material is irritating to the skin. However when wet, it will
	produce burns to the skin.
Prolonged (Chronic) Health Effe	CIS

Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
Reproductive and	Not known or reported to cause reproductive or developmental toxicity.
Developmental Toxicity:	
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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:	Chronic ingestion of this product may cause severe irritation and possible corrosive effects.
Eye Contact:	Prolonged contact may result in permanent damage. Corneal involvement or visual impairment is expected.
Sensitization:	May cause allergic skin sensitization in some individuals.
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

CAS OR CHEMICAL NAME	<u>CAS #</u> 10058-23-8	<u>% RANGE</u>
POTASSIUM SULFATE	7778-80-5	
POTASSIUM BISULFATE	7646-93-7	
SODIUM DICHLORO-S-TRIAZINETRIONE	2893-78-9	
Sodium carbonate	497-19-8	
POTASSIUM PEROXYDISULFATE	7727-21-1	
MAGNESIUM CARBONATE	546-93-0	

4. FIRST AID MEASURES

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.
Skin Contact:	Call a poison control center or doctor for further treatment advice. 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.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.
Flammable Properties	
Fire / Explosion Hazards:	Material will not ignite or burn. Will release oxygen when heated, intensifying a fire
Extinguishing Media:	Water only.
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:	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:	Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.
Spill Mitigation Procedures	

Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Contain all solids for treatment or disposal.
Water Release:	Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all solids for treatment or disposal. Continue to handle as described in land spill.
Land Release:	Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Avoid dust generation. Do not place spill materials back in their original containers. After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways.
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 non- essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

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 ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Protect from moisture.
Incompatible Materials for Storage:	Refer to Section 10, "Incompatible Materials."

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 Ro	utine Use of Product
Respiratory Protection :	Wear a NIOSH approved respirator if levels above the exposure limits are possible.
Respirator Type :	A NIOSH approved full-face air purifying respirator equipped with combination chlorine/P100 cartridges. 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 :	Wear impervious gloves, boots and apron to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.					
Eye Protection:	Use chemical goggles	S.				
Protective Clothing Type: General Protective	Neoprene An eve wash and safe	etv shower should be	provided in the immediate work			
Measures:	area.	.,	F			
Exposure Limit Data						
CHEMICAL NAME	<u>CAS #</u>	Name of Limit	<u>Exposure</u>			
	7727-21-1	ACGIH	0.1 mg/m3 TWA 1996			
PEROXYDISULFATE			Adoption			
MAGNESIUM CARBONATE	546-93-0	OSHA Z1	15 mg/m3 TWA total dust			
MAGNESIUM CARBONATE	546-93-0	OSHA Z1	5 mg/m3 TWA respirable fraction			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	solid
Form	No data.
Color:	No data.
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	1.1 - 1.4
	20 °C
pH :	7.0 - 7.5
	10 g/l (as aqueous solution)
Boiling Point:	
	not applicable
Freezing Point:	
	no data available
Melting Point:	
	no data available
Density:	
Bulk Density:	no data available
Vapor Pressure:	no data available
Vapor Density:	not applicable
Viscosity:	not applicable no data available
Solubility in Water:	250 g/l
Partition coefficient n-	20 °C
octanol/water:	
ocianol/water.	

Evaporation Rate: Oxidizing: Volatiles, % by vol.: VOC Content HAP Content not applicable None established

no data available

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Contact with incompatible substances, Exposure to
Chemical Incompatibility:	moist air or water This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics,
	nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive , flammable or combustible materials., Heavy metals such as
Hazardous Decomposition Products:	cobalt, nickel, copper, or manganese, Halides, Avoid moisture. Carbon monoxide, Carbon dioxide, Chlorine containing gases, Decomposes when heated or dampened, releasing oxygen and heat
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxic Oral LD50 value: POTASSIUM BISULFATE Sodium carbonate			2,340 mg/kg 4,090 mg/kg	rat rat	
Component Animal Toxic Dermal LD50 value: Sodium carbonate	<u>cology</u> LD50	Be	lieved to be >	2,000 mg/kg	rabbit
Component Animal Toxic Inhalation LC50 value: Sodium carbonate		1 h	= 4.6 MG/L	rat	

Product Animal Toxicity Oral LD50 value: Dermal LD50 value: Inhalation LC50 value:	LD50 Believed to be approximately 1,600 mg/kg rat LD50 Believed to be > 2,000 mg/kg rabbit LC50 1 h (aerosol dust) Believed to be > 10 MG/L rat		
Skin Irritation:	DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., The dry material is irritating to the skin. However when wet, it will produce burns to the skin.		
Eye Irritation: Skin Sensitization:	Corrosive to eyes. May cause allergic skin sensitization in some individuals.		
OKIN GENSILZALION.	May cause anergic skin sensilization in some individuals.		
Acute Toxicity:	Corrosive to the eyes, moderately irritating to the skin and respiratory tract and moderately to severely irritating to the gastrointestinal tract. The dry material is irritating to the skin. However when wet, it will produce burns to the skin.		
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.		
Sodium carbon	ate This chemical has been tested in laboratory animals and no evidence of teratogenicity was seen.		
Mutagenicity: Sodium carbon	Not known or reported to be mutagenic. ate This product was determined to be non-mutagenic in the Ames assay. It was also shown to be non- clastogenic in the chromosomal aberration test.		
Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.		

12. ECOLOGICAL INFORMATION

Overview: Moderately toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: POTASSIUM SULFATE

Lepomis macrochirus (Bluegill sunfish)	-	96 hr. EC50 (cell growth inhibition) 96 h LC50 = 3,550 mg/l
Pimephales promelas (fathead	-	96 h LC50 = 680 mg/l
minnow) Daphnia magna (Water flea)	-	48 h EC50= 720 mg/l

Ecological Toxicity Values for: SODIUM DICHLORO-S-TRIAZINETRIONE

Lepomis macrochirus (Bluegill sunfish)	-	96 h LC50 = 0.43 mg/l
Oncorhynchus mykiss (rainbow right frout)	-	96 h LC50 Believed to be approximately 0.45 mg/l
Pimephales promelas (fathead minnow)	-	96 h LC50 = 0.70 mg/l
Daphnia magna (Water flea)	-	48 h EC50Believed to be approximately 0.195 mg/l

Ecological Toxicity Values for: Sodium carbonate

Fathead minnow (Pimephales	-	(nominal, static). 96 h LC50 < 850 mg/l
promelas),		
Bluegill	-	(nominal, static). 96 h LC50 = 320 mg/l
Mosquito fish	-	(nominal, static). 96 h LC50 = 740 mg/l
Daphnia magna,	-	(nominal, static). 48 h LC50= 265 mg/l
Ceriodaphnia dubia	-	(nominal) 48 h EC50= 199.82 mg/l
Navicula seminulum (diatom)	-	(nominal, static). 96 h EC50 = 242 mg/l

Ecological Toxicity Values for: POTASSIUM PEROXYDISULFATE

Cyprinus carpio (Carp)	-	48 h LC50 = 1,360 mg/l
Oncorhynchus mykiss (rainbow	-	48 h LC50 = 234 mg/l
trout)		
Poecilia reticulata (guppy)	-	48 h LC50 = 845 mg/l
Daphnia magna (Water flea)	-	48 h LC50= 92 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 :	IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL
Disposal Methods :	As a nonhazardous waste, it should be disposed of in accordance
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with local, state and federal regulations.

Potential US EPA Waste Codes : Not applicable

14. TRANSPORT INFORMATION

Land (US DOT): UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLORO-S-TRIAZINE TRIONEDIHYDRATE) 9 III UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (SODIUM DICHLORO-S-TRIAZINE TRIONEDIHYDRATE) 9 III MARINE POLLUTANT

Air (IATA): UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (SODIUM DICHLORO-S-TRIAZINE TRIONEDIHYDRATE) 9 III Emergency Response Guide Number: ERG # 171

Transportation Notes:

Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Material is not regulated as a marine pollutant for ground transportation within the US if shipped in non-bulk packages.

EMS:

F-A, S-F

15. REGULATORY INFORMATION

UNITED STATES: Toxic Substances Control Act (TSCA):	This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.
EPA Pesticide Registration Number:	None established
FIFRA Listing of Pesticide Chemicals (40 CFR 180):	This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

Superfund Amendments and Reauthorization Act (SARA) Title III:

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

Health	Immediate (Acute) Health Hazard
Physical	Fire Hazard

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
	(49 CFR 172.101, Appendix): Reportable quantity	Adipic acid Value: 5,000lbs
ZUS_SAR302	Reportable quantity	None established
Supplier Notification	n Requirements (40 CFR 372.45	i), 313 Reportable Components
ZUS_SAR313	De minimis concentration	None established
Clean Air Act Toxic ARP Section 112r: CAA 112R None established		
Clean Air Act Socm HON SOC	i: None established	
Clean Air Act VOC Section 111: CAA 111 None established		
Clean Air Act Haz. Air Pollutants Section 112:ZUS_CAAHAPNone established		
ZUS_CAAHRP	None established	
CAA AP	None established	

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
7727-21-1	POTASSIUM PEROXYDISULFATE
	adipic acid
2893-78-9	SODIUM DICHLORO-S-TRIAZINETRIONE

ZUSPA_RTK

Pennsylvania: Hazardous substance list 1989-08-11 PEROXYDISULFURIC ACID ([(HO)S(O)2]2O2), DIPOTASSIUM SALT

Pennsylvania: Hazardous substance list 1989-08-11 HEXANEDIOIC ACID

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Environmental hazard

Pennsylvania: Hazardous substance list 1989-08-11 1,3,5-TRIAZINE,2,4,6(1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT

New Jersey:

CAS #	COMPONENT NAME	
546-93-0	MAGNESIUM CARBONATE	
7646-93-7	POTASSIUM BISULFATE	
7727-21-1	POTASSIUM PEROXYDISULFATE	
	adipic acid	
2893-78-9	SODIUM DICHLORO-S-TRIAZINETRIONE	
ZUSNI PTK		

ZUSNJ_RTK

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

2007-03-01

MAGNESITE CARBONIC ACID, MAGNESIUM SALT (1:1)

- New Jersey Right to Know Hazardous Substance List (RTK-HSL) 2007-03-01 POTASSIUM HYDROGEN SULFATE POTASSIUM BISULFATE SULFURIC ACID, MONOPOTASSIUM SALT Special Health Hazard - Corrosive
- New Jersey Right to Know Hazardous Substance List (RTK-HSL) 2007-03-01 POTASSIUM PERSULFATE PEROXYDISULFURIC ACID, ([(HO)S(O)2]2O2), DIPOTASSIUM SALT
- New Jersey Right to Know Hazardous Substance List (RTK-HSL) 2007-03-01 ADIPIC ACID HEXANEDIOIC ACID

New Jersey Right to Know Hazardous Substance List (RTK-HSL) 2007-03-01 SODIUM DICHLOROISOCYANURATE 1,3,5-TRIAZINE-2,4,6 (1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT SODIUM DICHLORO-S-TRIAZINETRIONE Special Health Hazard - Reactive - Second Degree

Massachusetts:

CAS #	COMPONENT NAME
546-93-0	MAGNESIUM CARBONATE
7727-21-1	POTASSIUM PEROXYDISULFATE
	adipic acid
2893-78-9	SODIUM DICHLORO-S-TRIAZINETRIONE

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1991-07-01 MAGNESITE DUST massachusetts hazardous substance

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 POTASSIUM PERSULFATE

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 ADIPIC ACID

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 SODIUM DICHLORO-S-TRIAZINETRIONE

California Proposition 65:		
CAS #	COMPONENT NAME	
ZUSCA_P65	None established	

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS) 2007-08-24 Threshold limits: 1 Weight percent 1513 Potassium hydrogen sulfate

Ingredient Disclosure List (WHMIS) 1988-01-20 Threshold limits: 0.1 Weight percent 1252

PERSULFATE COMPOUNDS

Ingredient Disclosure List (WHMIS) 2007-08-24 Threshold limits: 1 Weight percent 392 Sodium carbonate

Ingredient Disclosure List (WHMIS) 2007-08-24 Threshold limits: 1 Weight percent 53 Adipic acid

Ingredient Disclosure List (WHMIS) 2007-08-24 Threshold limits: 1 Weight percent 667 Dichloroisocyanuric acid, sodium salt

16. OTHER INFORMATION

MSDS REVISION STATUS :SECTIONS REVISED:3Major 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.