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

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS 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 RENEW

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<u>Supplier</u> Leisure Time 1400 Bluegrass Lakes Parkway , Alpharetta, GA, 30004 USA

Telephone: +17705215959 Telefax: +17705215959 Web: www.poolspacare.com

Manufacturer Advantis Technologies 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA) REVISION DATE: SUPERCEDES:

MSDS Number: SYNONYMS: CHEMICAL FAMILY: DESCRIPTION / USE FORMULA: 08/16/2016 03/15/2016

00000024374 none None Water treatment chemical None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
LEISURE TIME RENEW		
REVISION DATE : 08/16/2016		Page 1 of 11

GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	 H302 + H332 Harmful if swallowed or if inhaled H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H360 May damage fertility or the unborn child.
Precautionary statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection. Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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. P306 + P330 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. Storage: P405 Store locked up. Disposal iplant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME POTASSIUM PEROXYMONOSULFATE	<u>CAS #</u> 10058-23-8	<u>% RANGE</u> 25 - 35
Sodium tetraborate pentahydrate	12179-04-3	20 - 30
POTASSIUM SULFATE	7778-80-5	15 - 25
POTASSIUM BISULFATE	7646-93-7	10 - 20
POTASSIUM PEROXYDISULFATE	7727-21-1	1 - 3
MAGNESIUM CARBONATE	546-93-0	1 - 3
Carbonic acid, magnesium salt (1:1), mixt. with magnesium hydroxide (Mg(OH)2), hydrate	39409-82-0	0-2

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.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA):	Not combustible., The product is not flammable., The substance or mixture is not classified as pyrophoric., Not explosive
Flammable Properties	
Fire / Explosion Hazards: Extinguishing Media: Fire Fighting Instructions:	Will release oxygen when heated, intensifying a fire Will not burn Water 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 a water spray to cool fully closed containers.
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:	Wear protective gloves/protective clothing/eye protection/face protection.Wear respiratory protection.
Spill Mitigation Procedures	
Air Release:	Keep people away from and upwind of spill/leak.
Water Release:	If the product contaminates rivers and lakes or drains inform respective authorities.
Land Release:	Sweep up and shovel into suitable containers for disposal.Avoid creating dust.
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:

Storage:

Avoid breathing dust. Do not take internally. Avoid contact with skin, eyes and clothing. Protect from moisture. Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally require when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit. <u>Protective Equipment for Routine Use of Product</u>				
Respiratory Protection :	Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved full-face or half-face respirator in combination with chemical goggles., NIOSH approved half-face air purifying respirator with an N95 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 :	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: Protective Clothing Type:	Use chemical goggles. Neoprene			
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)
Sodium tetraborate pentahydrate (12179- 04-3)	TWA	2 mg/m3	ACGIH (02 2014)
	STEL	6 mg/m3	ACGIH (02 2014)
POTASSIUM PEROXYDISULFATE (7727- 21-1)	TWA	0.1 mg/m3	ACGIH (02 2014)
[as persulfate]			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Form Color: Odor: Molecular Weight: pH : Boiling Point: Melting point/freezing point	solid tablet white none None established 5.5 - 6.5 () Not applicable no data available
point Bulk Density:	Δ
Buik Density.	() no data available

Vapor Pressure: Vapor Density: Viscosity: Solubility in Water:	no data available Not volatile no data available 250 g/l 68 °F (20 °C)
Partition coefficient n- octanol/water:	Not applicable
Evaporation Rate:	Not applicable
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 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.
HAP Content	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactive Properties: Conditions to Avoid: Chemical Incompatibility:	Stable under normal conditions. Heat, Exposure to moisture 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., Halides, Avoid moisture., Heavy metals
Hazardous Decomposition Products:	Decomposes when heated or dampened, releasing oxygen and heat, Carbon dioxide (CO2), Carbon monoxide, Chlorine
Decomposition Temperature:	No data

SECTION 11. TOXICOLOGICAL INFORMATION

<u>Component Animal Toxicology</u> <u>Oral LD50 value</u> :					
Sodium tetraborate pentahydrate	LD50	3,200 - 3,400 mg/	/kg = Rat		
POTASSIUM BISULFATE	LD50	= 2,340 mg/kg	Rat		
<u>Component Animal Toxicology</u> <u>Dermal LD50 value</u> : Sodium tetraborate LD50 > 2,000 mg/kg Rabbit					
pentahydrate Component Animal Toxice Inhalation LC50 value:	ology				

Sodium tetraborate pentahydrate	Inhalation LC50 4 h > 2 mg/l Rat	
Product Animal Toxicity Oral LD50 value: Dermal LD50 value: Inhalation LC50 value: Skin Irritation: Eye Irritation: Skin Sensitization: Acute Toxicity:	LD50 Believed to be approximately 2,000 mg/kg Rat LD50 Believed to be > 2,000 mg/kg Rabbit LC50 1 h (aerosol dust) Believed to be > 5 mg/l Rat The dry material is irritating to the skin. However when wet, it will prod the skin., Moderate skin irritation, Irritating to skin. Corrosive to eyes May produce an allergic reaction. Moderate skin irritationThe dry material is irritating to the skin. However it will produce burns to the skin.Corrosive to eyes	
Subchronic / Chronic Toxicity:	Not known or reported to cause subchronic or chronic toxicity.	
Reproductive and Developmental Toxicity	This product has not been tested for reproductive or development However, this product contains an ingredient which has been sho possible reproductive or developmental hazard based on animal Caution should therefore be utilized when handling this product a exposures should be minimized.	own to be a studies.
Sodium tetrab	orate pentahydrate Boric acid has been evaluated in several lab animal species and in only one species was cause fetotoxicity at maternally toxic doses. this data, this product may have the potentia developmental toxicity.	found to Based on
Mutagenicity:	Not known or reported to be mutagenic.	
Carcinogenicity:	This product is not known or reported to be carcinogenic by any source including IARC, OSHA, NTP or EPA.	reference

SECTION 12. ECOLOGICAL INFORMATION

Overview: Moderately toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: Sodium tetraborate pentahydrate

Rainbow trout (embryo - larval stage)	-	24 day LC50 (chronic toxicity) = 88 mg/l
Daphnia magna, Green algae (Scenedesmus subspicatus)		24 h EC50= 242 mg/l 96 h EC10 = 24 mg/l

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
Daphnia magna (Water flea)	-	48 h EC50= 720 mg/l
Ecological Toxicity Values for: POTASSI	IUI	M PEROXYDISULFATE
Cyprinus carpio (Carp) - Oncorhynchus mykiss (rainbow - trout)		48 h LC50 = 1,360 mg/l 48 h LC50 = 234 mg/l
	-	48 h LC50 = 845 mg/l 48 h LC50= 92 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 :	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 with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN number	: 3260
Description of the goods	: Corrosive solid, acidic, inorganic, n.o.s.
	: (Potassium hydrogenperoxomonosulphate)
Class	: 8
Packing group	: 11
Labels	: 8
Emergency Response	: 154
Guidebook Number	

TDG

UN number : Description of the goods : Class : Packing group : Labels :	3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate) 8 II 8
IATAUN number:Description of the goods:Class:Packing group:Labels:Packing instruction (cargo:aircraft):Packing instruction:(passenger aircraft)	 3260 Corrosive solid, acidic, inorganic, n.o.s. (Potassium hydrogenperoxomonosulphate) 8 8 863 859
Packing instruction : (passenger aircraft)	Y844
IMDG-CODE	
UN number : Description of the goods :	3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate)
Class:Packing group:Labels:EmS Number 1:EmS Number 2:	8 II 8 F-A 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

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).

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

	Sodium tetraborate pentahydrate	12179-04-3
	Dipotassium peroxodisulphate	7727-21-1
	Magnesium carbonate	546-93-0
Pennsylvania Right To Know		
	Potassium hydrogenperoxomonosulph ate	10058-23-8
	Sodium tetraborate pentahydrate	12179-04-3
	Potassium sulfate	7778-80-5
	Potassium	7646-93-7
	hydrogensulphate Dipotassium peroxodisulphate	7727-21-1
New Jersey Right To Know		
	Potassium hydrogenperoxomonosulph ate	10058-23-8

Sodium tetraborate	12179-04-3
pentahydrate	
Potassium sulfate	7778-80-5
Potassium	7646-93-7
hydrogensulphate	
Dipotassium	7727-21-1
peroxodisulphate	
Magnesium carbonate	546-93-0

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.

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: Major References : 1 Available upon request.

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