SAFETY DATA SHEET

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 RENEW TABS**

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

Manufacturer
Arch Chemicals, Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004
United States of America (USA)

REVISION DATE: 08/11/2017
SUPERCEDES: 05/16/2017

MSDS Number: 000000024367
SYNONYMS:
CHEMICAL FAMILY: None
DESCRIPTION / USE Swimming pool water treatment
FORMULA: None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing solids	:	Category 2
Skin corrosion	:	Category 1A
Skin sensitisation	:	Sub-category 1B
Serious eye damage	:	Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements	:	H272 May intensify fire; oxidizer. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.
Precautionary statements	:	**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles. P260 Do not breathe vapours. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see supplemental first aid instructions on this label). P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. **Storage:** P405 Store locked up. **Disposal:** P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS #	% RANGE
POTASSIUM PEROXYMONOSULFATE	10058-23-8	31 - 33
Carbonic acid disodium salt	497-19-8	20 - 22

Sodium phosphate	7646-93-7	16 - 18
BORIC ACID	10043-35-3	3 - 5
POTASSIUM PEROXYDISULFATE	7727-21-1	1 - 3
MAGNESIUM CARBONATE	546-93-0	1 - 3

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.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.
<u>Flammable Properties</u>	
Flash Point:	no data available
Autoignition Temperature:	no data available
Fire / Explosion Hazards:	May cause or intensify fire; oxidizer.
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.
Upper Flammable / Explosive Limit, % in air:	no data available
Lower Flammable / Explosive Limit, % in air:	no data available

SECTION 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:	Keep people away from and upwind of spill/leak.
Water Release:	Notify all downstream users of possible contamination.Divert water flow around spill if possible and safe to do so.
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.
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:	Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove contaminated clothing and wash before reuse. Wear personal protective equipment.
Storage:	Keep tightly closed in a dry, cool and well-ventilated place. Keep in a cool place away from oxidizing agents. Keep in a cool, well ventilated place away from acids. Keep out of reach of children.
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., NIOSH approved full-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 :	Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.
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)
BORIC ACID (10043-35-3)	TWA	2 mg/m3	ACGIH (02 2014)
	STEL	6 mg/m3	ACGIH (02 2014)
POTASSIUM PEROXYDISULFATE (7727-21-1) [as persulfate]	TWA	0.1 mg/m3	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	solid
Form	Mixture
Color:	white
Odor:	none
Molecular Weight:	None established
pH :	8.0 - 8.6 ()
Boiling Point:	Not applicable
Melting point/freezing point	Decomposes
Density	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not volatile
Viscosity:	no data available
Solubility in Water:	> 250 g/l 68 °F (20 °C)
Partition coefficient n-octanol/water:	
Evaporation Rate:	Not applicable
Oxidizing:	None established
Volatiles, % by vol.:	Not applicable
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

Stability and Reactivity Summary:	Stable under normal conditions., Product will not undergo hazardous polymerization.
Conditions to Avoid:	Heat
Chemical Incompatibility:	Strong oxidizing agents, Cyanides, Heavy metal salts, Bases
Hazardous Decomposition Products:	Oxygen
Decomposition Temperature:	no data available

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology
Oral LD50 value:

Carbonic acid disodium salt	LD50	4,090 mg/kg	Rat
Sodium phosphate	LD50	2,340 mg/kg	Rat
BORIC ACID	LD50	2,660 mg/kg	Rat

Component Animal Toxicology
Dermal LD50 value:

Carbonic acid disodium salt	LD50	> 2,000 mg/kg	Rabbit
BORIC ACID	LD50	> 2,000 mg/kg	Rabbit

Component Animal Toxicology
Inhalation LC50 value:

Product Animal Toxicity

Oral LD50 value:	Believed to be > 2,000 mg/kg
Dermal LD50 value:	Believed to be > 2,000 mg/kg
Inhalation LC50 value:	No data.
Skin Irritation:	Corrosive to skin
Eye Irritation:	Corrosive to eyes
Skin Sensitization:	Possible skin sensitizer

BORIC ACID

Subchronic / Chronic Toxicity: May cause allergic skin sensitization.

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

Mutagenicity: Not known or reported to be mutagenic.

Carcinogenicity: This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: Carbonic acid disodium salt

Lepomis macrochirus (Bluegill sunfish)	-	Acute toxicity 96 h LC50 300 mg/l
Daphnia magna (Water flea)	-	Immobilization 48 h EC50 265 mg/l
Daphnia magna (Water flea)	-	Immobilization 48 h EC50 565 mg/l
Daphnia magna (Water flea)	-	Immobilization 24 h EC50 347 mg/l

Ecological Toxicity Values for: BORIC ACID

Oncorhynchus mykiss (rainbow trout)	-	Acute toxicity 24 d LC50 860 mg/l
Pimephales promelas (fathead minnow)	-	Chronic toxicity 60 d NOEC 137 - 503 mg/l
Daphnia magna (Water flea)	-	Immobilization 48 h EC50 658 - 875 mg/l
Daphnia magna (Water flea)	-	Reproduction Test 21 d NOECca. 80 mg/l

Ecological Toxicity Values for: POTASSIUM PEROXYDISULFATE

Cyprinus carpio (Carp)	-	48 h LC50 = 1,360 mg/l
Oncorhynchus mykiss (rainbow trout)	-	48 h LC50 = 234 mg/l
Poecilia reticulata (guppy)	-	48 h LC50 = 845 mg/l
Daphnia magna (Water flea)	-	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 : If this product becomes a waste, it will be a nonhazardous waste.As a nonhazardous solid 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	:	II
Labels	:	8
Emergency Response Guidebook Number	:	154

TDG

UN number	:	3260
Description of the goods	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate)
Class	:	8
Packing group	:	II
Labels	:	8

IATA

UN number	:	3260
Description of the goods	:	Corrosive solid, acidic, inorganic, n.o.s. (Potassium hydrogenperoxomonosulphate)
Class	:	8
Packing group	:	II
Labels	:	8
Packing instruction (cargo aircraft)	:	863
Packing instruction (passenger aircraft)	:	859
Packing instruction (passenger aircraft)	:	Y844

IMDG-CODE

UN number	:	3260
Description of the goods	:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate)
Class	:	8
Packing group	:	II
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 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

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 Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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 toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Components	CAS-No.
Dipotassium peroxodisulphate	7727-21-1
Magnesium carbonate	546-93-0

Pennsylvania Right To Know

Components	CAS-No.
Potassium hydrogenperoxomonosulphate	10058-23-8
Potassium sulfate	7778-80-5
Sodium carbonate	497-19-8
Potassium hydrogensulphate	7646-93-7
Boric acid	10043-35-3

New Jersey Right To Know

Components	CAS-No.
Potassium hydrogenperoxomonosulphate	10058-23-8
Potassium sulfate	7778-80-5
Sodium carbonate	497-19-8
Potassium hydrogensulphate	7646-93-7
Boric acid	10043-35-3
Dipotassium peroxodisulphate	7727-21-1
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.

SECTION 16. OTHER INFORMATION

SECTIONS REVISED:	1, 11, 12
SECTIONS REVISED:	Arch is a wholly-owned subsidiary of Lonza and continues to operate as Arch Chemicals, Inc.
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. .