SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

LEISURE TIME RENEW TABS

Version 1.0 Revision Date 2018.09.25 Print Date 2018.10.23

SECTION 1. IDENTIFICATION

Product name : LEISURE TIME RENEW TABS

Manufacturer or supplier's details

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

E-mail address : sds@lonza.com

Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD-WIDE: +1-703-527-3887.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing solids : Category 2

Skin corrosion : Category 1B

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

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.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360 May damage fertility or the unborn child.

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 dust or mist.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
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 + P360 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 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P405 Store locked up.
P420 Store separately.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Potassium hydrogenperoxomonosulphate	10058-23-8	31 - 33
Sodium carbonate	497-19-8	20 - 22
Potassium hydrogensulphate	7646-93-7	16 - 18
Boric acid	10043-35-3	3 - 5
Dipotassium peroxodisulphate	7727-21-1	1 - 3
Magnesium carbonate	546-93-0	1 - 3
Magnesium distearate	557-04-0	0.1 - 0.2

SECTION 4. FIRST AID MEASURES

If inhaled	:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
In case of 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.
In case of eye contact	:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
If swallowed	:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during firefighting	:	May cause or intensify fire; oxidizer.
Further information	:	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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	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. 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

Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove contaminated clothing and wash before reuse. Wear personal protective equipment.
Conditions for safe 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.

Materials to avoid : Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dipotassium peroxodisulphate	7727-21-1	TWA	0.1 mg/m3 (as persulfate)	ACGIH
Magnesium carbonate	546-93-0	REL (Total)	10 mg/m3	NIOSH/GUIDE
		REL (Respirable.)	5 mg/m3	NIOSH/GUIDE
		PEL (Total dust.)	15 mg/m3	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m3	OSHA_TRANS
		TWA (Total dust.)	15 mg/m3	Z1A
		TWA (Respirable fraction.)	5 mg/m3	Z1A
Magnesium distearate	557-04-0	TWA (Inhalable fraction.)	10 mg/m3	ACGIH
		(Respirable fraction.)		ACGIH
		TWA (Respirable fraction.)	3 mg/m3	ACGIH
		(Inhalable fraction.)		ACGIH
Boric acid	10043-35-3	TWA (Inhalable fraction.)	2 mg/m3	ACGIH
		STEL (Inhalable fraction.)	6 mg/m3	ACGIH
		(Inhalable fraction.)		ACGIH
Dipotassium peroxodisulphate	7727-21-1	TWA	0.1 mg/m3 (as persulfate)	ACGIH
Magnesium carbonate	546-93-0	REL (Total)	10 mg/m3	NIOSH/GUIDE
		REL (Respirable.)	5 mg/m3	NIOSH/GUIDE
		PEL (Total dust.)	15 mg/m3	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m3	OSHA_TRANS
		TWA (Total	15 mg/m3	Z1A

		dust.)		
		TWA (Respirable fraction.)	5 mg/m3	Z1A
Magnesium distearate	557-04-0	TWA (Inhalable fraction.)	10 mg/m3	ACGIH
		(Respirable fraction.)		ACGIH
		TWA (Respirable fraction.)	3 mg/m3	ACGIH
		(Inhalable fraction.)		ACGIH

Engineering measures : 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.

Personal protective equipment

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.

Hand protection

Remarks : 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

Skin and body protection : Impervious clothing

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Mixture

Colour : white

Odour : none

Odour Threshold : no data available

pH : 8.4 - 8.6
1% solution

Melting point/freezing point	:	Decomposes
Boiling point/boiling range	:	Not applicable
Flash point	:	no data available
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Product is not known to be flammable, combustible, pyrophoric or explosive.
Flammability (liquids)	:	no data available
Self-ignition	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not volatile
Relative density	:	1.2
Density	:	Not applicable
Water solubility	:	> 250 g/l (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to avoid	:	Heat
Incompatible materials	:	Strong oxidizing agents Cyanides Heavy metal salts Bases
Hazardous decomposition products	:	Oxygen

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Ingestion
Eyes
Skin

Acute toxicity

Acute oral toxicity : Believed to be > 2,000 mg/kg

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity : Believed to be > 2,000 mg/kg

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin corrosion/irritation

Remarks: Corrosive to skin

Serious eye damage/eye irritation

Remarks: Corrosive to eyes

Respiratory or skin sensitisation

Remarks: Possible skin sensitizer

Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Repeated dose toxicity

Remarks: May cause allergic skin sensitization.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability
no data available

Bioaccumulative potential

Components:

Sodium carbonate:
Partition coefficient: n-octanol/water : Remarks: Not applicable

Potassium hydrogensulphate:
Partition coefficient: n-octanol/water : Remarks: Not applicable

Boric acid:
Partition coefficient: n-octanol/water : log Pow: -0.757 (25 °C)

Mobility in soil
no data available

Other adverse effects
Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data for product. Individual constituents are as follows:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : 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	:	3262
Proper shipping name	:	Corrosive solid, basic, inorganic, n.o.s. (Potassium hydrogenperoxomonosulphate)
Transport hazard class	:	8
Packing group	:	II
Labels	:	8
Emergency Response Guidebook Number	:	154
Environmental hazards	:	no

TDG

UN number	:	3262
Proper shipping name	:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate)
Transport hazard class	:	8
Packing group	:	II
Labels	:	8
Environmental hazards	:	no

IATA

UN number	:	3262
Proper shipping name	:	Corrosive solid, basic, inorganic, n.o.s. (Potassium hydrogenperoxomonosulphate)
Transport hazard class	:	8
Packing group	:	II
Labels	:	8
Environmental hazards	:	no

IMDG

UN number	:	3262
Proper shipping name	:	Corrosive solid, basic, inorganic, n.o.s. (Potassium hydrogenperoxomonosulphate)
Transport hazard class	:	8
Packing group	:	II
Labels	:	8
EmS Number 1	:	F-A
EmS Number 2	:	S-B
Environmental hazards	:	Marine pollutant: no

ADR

UN number	:	3262
Proper shipping name	:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate)
Transport hazard class	:	8
Packing group	:	II
Classification Code	:	C6
Hazard Identification Number	:	80
Labels	:	8
Environmental hazards	:	no

RID

UN number	:	3262
Proper shipping name	:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Potassium hydrogenperoxomonosulphate)
Transport hazard class	:	8
Packing group	:	II
Classification Code	:	C6
Hazard Identification Number	:	80
Labels	:	8
Environmental hazards	:	no
Special precautions for user	:	none
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	:	Not applicable

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 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 neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

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.

Canadian lists

NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

The components of this product are reported in the following inventories:

TSCA : This is an EPA registered pesticide.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	US. ACGIH Threshold Limit Values
NIOSH/GUIDE	:	US. NIOSH: Pocket Guide to Chemical Hazards
OSHA_TRANS	:	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Z1A	:	US. OSHA Table Z-1-A (29 CFR 1910.1000)

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Date format : yyyy/mm/dd

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