

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 BROMINATING GRANULAR**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION


<b>Advantis Technologies</b> 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004	REVISION DATE:	05/26/2015
	SUPERCEDES:	07/29/2013
	MSDS Number:	000000026425
	SYNONYMS:	None
	CHEMICAL FAMILY:	Not Applicable/Mixture
	DESCRIPTION / USE	Swimming pool water treatment
	FORMULA:	Not Applicable/Mixture

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Oxidizing solids	:	Category 2
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

### GHS Label element

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H272 May intensify fire; oxidiser. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

## Precautionary statements

: **Prevention:**

P210 Keep away from heat.  
 P220 Keep/Store away from clothing/ combustible materials.  
 P221 Take any precaution to avoid mixing with combustibles.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

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 or doctor/ physician if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
SODIUM DICHLORO-S-TRIAZINETRIONE	2893-78-9	80 - 90
SODIUM BROMIDE (NABR)	7647-15-6	10 - 20

## SECTION 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. 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): Product is not known to be flammable, combustible, pyrophoric or explosive.

### Flammable Properties

Flash Point:	Not applicable
Autoignition Temperature:	No data
Fire / Explosion Hazards:	Strong oxidizer Will release oxygen when heated, intensifying a fire
Extinguishing Media:	Water only. Do not use dry extinguishers containing ammonium compounds.
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.
Hazardous Combustion Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Upper Flammable / Explosive Limit, % in air:	No data
Lower Flammable / Explosive Limit, % in air:	No data

## SECTION 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.

### 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:	This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Begin monitoring for available chlorine and pH immediately.
Land Release:	Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container. Avoid dust generation. Do not place spill materials back in their original containers.
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.

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## SECTION 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 breathing dust from this material.
Storage:	Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed.
Incompatible Materials for Storage:	Refer to Section 10, "Incompatible Materials." Refer to Section 10, "Incompatible Materials."

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use local exhaust ventilation to maintain levels below exposure limits.  
Protective Equipment for Routine 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 to avoid skin contact.
Eye Protection:	Use chemical goggles. Emergency eyewash should be provided in the immediate work area.
Protective Clothing Type:	Impervious

### Components with workplace control parameters

no data available

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	solid
Form	granular
Color:	White
Odor:	Halogen
Molecular Weight:	Not applicable/Mixture
pH :	4 - 5 Aqueous solution
Boiling Point:	Not applicable
Melting point/freezing point	Not applicable
Density:	50 - 60lb/ft <sup>3</sup>
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	Soluble
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	Not applicable
Oxidizing:	Product has oxidizing properties.
Volatiles, % by vol.:	No data
VOC Content	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM 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	No data

## SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Product will not undergo hazardous polymerization. Stable under normal conditions.
Conditions to Avoid:	High temperatures, Exposure to moist air or water, Contamination
Chemical Incompatibility:	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.
Hazardous Decomposition Products:	Chlorine, Nitrogen trichloride, Halogens, Carbon oxides
Decomposition Temperature:	No data

## SECTION 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

SODIUM BROMIDE      LD50 = 3,500 mg/kg    Rat  
(NABR)

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Component Animal ToxicologyDermal LD50 value:

SODIUM BROMIDE      LD50    Believed to be > 2,000 mg/kg    Rabbit  
(NABR)

Component Animal ToxicologyInhalation LC50 value:

SODIUM BROMIDE      No data  
(NABR)

Product Animal Toxicity

Oral LD50 value:      LD50 = 3,500 mg/kg    Rat

Dermal LD50 value:    LD50    Believed to be > 2,000 mg/kg    Rabbit

Inhalation LC50 value:      No data

Skin Irritation:      Skin contact may cause mild to moderate irritation consisting of transient redness and swelling. This irritant effect would not be expected to result in permanent damage.

Eye Irritation:      Expected to be severely irritating.

Skin Sensitization:    This material tested negative for skin sensitization in animals.

Acute Toxicity:      Severe eye irritant

Subchronic / Chronic Toxicity:    Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity:      A three-generation reproduction study on the effects of sodium bromide in rats showed that at extremely high oral doses (4,800 mg/kg. and 19,200 mg/kg.) there was a marked decrease in the fertility of both the male and female rats. The effects of bromide on reproduction were reversible upon bromide withdrawal. Macroscopic examination of all pups born during the entire experimental period provided no evidence of birth defects.

Mutagenicity:      Not known or reported to be mutagenic.

Carcinogenicity:      This product 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: SODIUM DICHLORO-S-TRIAZINETRIONE

Lepomis macrochirus (Bluegill - 96 h LC50 = 0.43 mg/l  
sunfish)

- Oncorhynchus mykiss (rainbow trout) - 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 EC50 Believed to be approximately 0.195 mg/l

Ecological Toxicity Values for: SODIUM BROMIDE (NABR)

- Pimephales promelas (fathead minnow) - (nominal, static). 96 h LC50 = 16,479 mg/l  
 Daphnia magna, - (nominal, static). 48 h LC50= 11,000 mg/l  
 Daphnia magna, - (nominal, static). 48 h EC50= 5,800 mg/l  
 Green algae (Scenedesmus quadricauda), - (nominal, static). 7 day toxicity threshold for mortality = 2,800 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 meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.

Disposal Methods : As a hazardous solid waste, it must be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : D001

## SECTION 14. TRANSPORT INFORMATION

**DOT**

UN number : 2465  
 Description of the goods : Dichloroisocyanuric acid salts  
 Class : 5.1  
 Packing group : II  
 Labels : 5.1  
 Emergency Response : 140  
 Guidebook Number

**TDG**

UN number : 2465  
 Description of the goods : DICHLOROISOCYANURIC ACID SALTS  
 Class : 5.1  
 Packing group : II  
 Labels : 5.1

**IATA**

UN number : 2465  
 Description of the goods : Dichloroisocyanuric acid, salts  
 Class : 5.1  
 Packing group : II  
 Labels : 5.1  
 Packing instruction (cargo aircraft) : 562  
 Packing instruction (passenger aircraft) : 558  
 Packing instruction (passenger aircraft) : Y544

**IMDG-CODE**

UN number : 2465  
 Description of the goods : DICHLOROISOCYANURIC ACID, SALTS  
 Class : 5.1  
 Packing group : II  
 Labels : 5.1  
 EmS Number 1 : F-A  
 EmS Number 2 : S-Q

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**SECTION 15. REGULATORY INFORMATION**

**This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.**

Signal word : DANGER!  
 Hazard statements : Harmful if swallowed.  
 Harmful if absorbed through skin.  
 May be fatal if inhaled.  
 Corrosive. Causes skin burns.  
 Corrosive. Causes irreversible eye damage.  
 This pesticide is toxic to fish.

**EPCRA - Emergency Planning and Community Right-to-Know Act****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 12 (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 SOCMII 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**

troclosene sodium	2893-78-9
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**Pennsylvania Right To Know**

troclosene sodium	2893-78-9
Sodium bromide	7647-15-6

**New Jersey Right To Know**

troclosene sodium	2893-78-9
Sodium bromide	7647-15-6

**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), TSCA (USA)

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**SECTION 16. OTHER INFORMATION**

SECTIONS REVISED: 1  
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. .