

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 MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

**PRODUCT NAME: LEISURE TIME BROM TABS****1. PRODUCT AND COMPANY IDENTIFICATION**

**Supplier**  
**Leisure Time**  
**1400 Bluegrass Lakes Parkway ,**  
**Alpharetta, GA, 30004**  
**United States**

**Telephone: +17705215999**  
**Telefax: +17705215959**  
**Web: www.poospacare.com**

REVISION DATE: 04/13/2012  
SUPERCEDES: 12/09/2011  
MSDS Number: 000000012592  
SYNONYMS:  
CHEMICAL FAMILY: None  
DESCRIPTION / USE: None established  
FORMULA: None established

**Manufacturer**  
**Advantis Technologies**  
**1400 Bluegrass Lakes Parkway**  
**Alpharetta, GA 30004**  
**United States of America**

**2. HAZARDS IDENTIFICATION**

OSHA Hazard  
Classification:

**Toxic by ingestion, Corrosive to eyes, Skin and respiratory irritant, Possible  
skin sensitizer, Oxidizer, Corrosive to skin**

Routes of Entry:

Eyes Ingestion Inhalation Skin

Chemical Interactions:

No known or reported interactions.

Medical Conditions Aggravated:

Respiratory diseases including asthma and bronchitis, Skin  
diseases including 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**

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3	1	1	
NFPA	3	1	1	OX

Immediate (Acute) Health Effects

Inhalation Toxicity:                      Inhalation of dust may cause mucous membrane and lung irritation with symptoms of coughing and choking.

Skin Toxicity:                                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. Prolonged or repeated exposure may cause severe irritation. Not expected to be toxic from dermal contact.

Eye Toxicity:                                 Causes eye burns.

Ingestion Toxicity:                         Toxic if swallowed. Causes digestive tract burns.

Acute Target Organ Toxicity:             Corrosive to the eyes and mildly to moderately irritating to the skin and respiratory tract.

Prolonged (Chronic) Health Effects

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

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

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:           This product has not been tested. However based on similar structured products, this product may cause allergic skin sensitization.

Supplemental Health Hazard Information :                                        No additional health information available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL	118-52-5	
2,4-IMIDAZOLIDINEDIONE, 1-BROMO-3-CHLORO-5,5-DIMEMETHYL	16079-88-2	
2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5-ETHYL-5-METHYL	89415-87-2	

### 4. FIRST AID MEASURES

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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.
Notes to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE FIGHTING MEASURES

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Flammability Summary (OSHA):	Combustible above 93 deg. C / 200 deg. F.
<u>Flammable Properties</u>	
Flash Point:	141 °C
Fire / Explosion Hazards:	May intensify fire; oxidiser. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust in air can be an explosion hazard.
Extinguishing Media:	Water Foam Dry chemical
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:	Not applicable
Lower Flammable / Explosive Limit, % in air:	Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

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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.
<u>Spill Mitigation Procedures</u>	
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. Remove all sources of ignition.

## 7. HANDLING AND STORAGE

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Handling:	Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing dust.
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Storage: Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed.

Shelf Life Limitations: Maximum storage temperature:

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

Do Not Store At temperatures Above: 37 °C

Empty Container Warning: Empty containers retain hazardous residue, dispose of accordingly.

## 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., A NIOSH approved air purifying respirator with organic vapor cartridge and N95 particulate 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 : Impervious gloves When exposure to high concentrations are prolonged or repeated use protective boots and apron in addition to gloves.

Eye Protection: Chemical resistant goggles must be worn.

Protective Clothing Type: impervious clothing, Neoprene

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

### Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL	118-52-5	ACGIH	0.2 mg/m3 TWA
2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL	118-52-5	ACGIH	0.4 mg/m3 STEL
2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL	118-52-5	OSHA Z1	0.2 mg/m3 TWA
2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL	118-52-5	NIOSH-IDLH	5 mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State:	solid
Form	No data.
Color:	off-white
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	1.8 - 2.0
	20 °C
pH :	3.6
	25.0 °C 10.0 g/l
Boiling Point:	
	not applicable
Freezing Point:	120 - 148 °C
Melting Point:	120 - 148 °C
Density:	1.6 g/cm <sup>3</sup>
Bulk Density:	no data available
Vapor Pressure:	not applicable
Vapor Density:	Not volatile
Viscosity:	not applicable
Solubility(ies):	5 g/l
	25.0 °C
Solubility in Water:	2 g/l
	25 °C
Partition coefficient n- octanol/water:	Not applicable
Evaporation Rate:	not applicable
Oxidizing:	None established
Volatiles, % by vol.:	no data available
VOC Content	no data available
HAP Content	Not applicable

## 10. STABILITY AND REACTIVITY

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Stability and Reactivity Summary:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames and sparks., Exposure to moisture.
Chemical Incompatibility:	Strong acids and strong bases, Oxidizing agents, Reducing agents, Organic materials, Avoid moisture.
Hazardous Decomposition Products:	Carbon oxides, Bromine, Chlorine, Nitrogen
Decomposition Temperature:	165 °C

## 11. TOXICOLOGICAL INFORMATION

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### Component Animal Toxicology

#### Oral LD50 value:

2,4- IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5- DIMETHYL	LD50 = 542 mg/kg	Rat
2,4- IMIDAZOLIDINEDIONE, 1-BROMO-3-CHLORO- 5,5-DIMEMETHYL	LD50 = 929 mg/kg	rat
2,4- IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5-ETHYL- 5-METHYL	No data	

### Component Animal Toxicology

#### Dermal LD50 value:

2,4- IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5- DIMETHYL	LD50 > 20,000 mg/kg	Rabbit
2,4- IMIDAZOLIDINEDIONE, 1-BROMO-3-CHLORO- 5,5-DIMEMETHYL	LD50 > 2,000 mg/kg	rabbit
2,4- IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5-ETHYL- 5-METHYL	No data	

### Component Animal Toxicology

#### Inhalation LC50 value:

2,4- IMIDAZOLIDINEDIONE, 1-BROMO-3-CHLORO- 5,5-DIMEMETHYL	LC50 4 h = 1.1 mg/l	rat
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### Component Animal Toxicology

#### Inhalation LC50 value:

2,4- IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5- DIMETHYL	Inhalation LCLo 1 h = 20 MG/L	Rat
2,4-	No data	

IMIDAZOLIDINEDIONE,  
1,3-DICHLORO-5-ETHYL-  
5-METHYL

Product Animal Toxicity

Oral LD50 value: LD50 = 468 - 477 mg/kg rat

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

Inhalation LC50 LC50 no data available

value:

Skin Irritation: This material is expected to be mildly to moderately irritating., Draize score, Rabbit = 3.84/8.0

Eye Irritation: Corrosive to eyes

Skin Sensitization: May cause allergic skin sensitization in some individuals.

Acute Toxicity: Corrosive to the eyes and mildly to moderately irritating to the skin and respiratory tract.

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.

Mutagenicity: Not known or reported to be mutagenic.

2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL

This product was determined to be non-mutagenic in the Ames assay.

2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5-ETHYL-5-METHYL

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.

2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5,5-DIMETHYL

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

2,4-IMIDAZOLIDINEDIONE, 1,3-DICHLORO-5-ETHYL-5-METHYL

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

## 12. ECOLOGICAL INFORMATION

Overview: Highly toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

Oncorhynchus mykiss (rainbow trout) - 96 h LC50 = 0.5 mg/l

Lepomis macrochirus (Bluegill sunfish) - 96 h LC50 = 1.2 mg/l



- Cyprinodon variegatus (sheepshead minnow) - 96 h LC50 = 1.4 mg/l (as Br2)
- Daphnia magna (Water flea) - 48 h LC50= 0.4 mg/l
- Mysid shrimp - 96 h LC50= 0.93 mg/l
- Crassostrea virginica (Eastern oyster) - 96 h EC50= 0.84 mg/l (as Br2)

**Ecological Toxicity Values for: 2,4-IMIDAZOLIDINEDIONE, 1-BROMO-3-CHLORO-5,5-DIMETHYL**

- Oncorhynchus mykiss (rainbow trout) - static test 96 h LC50 = 0.40 mg/l
- Lepomis macrochirus (Bluegill sunfish) - static test 96 h LC50 = 0.46 mg/l
- Cyprinodon variegatus (sheepshead minnow) - flow-through test 96 h LC50 = 1.2 mg/l
- Daphnia magna (Water flea) - static test 48 h EC50= 0.75 mg/l
- Opossum Shrimp - flow-through test 96 h LC50= 0.92 mg/l
- Crassostrea virginica (Eastern oyster) - flow-through test 96 h EC50= 1.1 mg/l
- Colinus virginianus (Bobwhite quail) - Oral LD50 = 1,839 mg/kg
- Colinus virginianus (Bobwhite quail) - Dietary LC50 > 5,620 ppm
- Anas platyrhynchos (Mallard duck) - Dietary LC50 > 5,000 ppm

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

Potential US EPA Waste Codes : not applicable

## 14. TRANSPORT INFORMATION

Land (US DOT): UN3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (HALOGENATED  
HYDANTOINS) 5.1 8 III

Water (IMDG): UN3085 OXIDIZING SOLID, CORROSIVE, N.O.S., (HALOGENATED  
HYDANTOINS) 5.1 8 III MARINE POLLUTANT

Air (IATA): UN3085 OXIDIZING SOLID, CORROSIVE, N.O.S., (HALOGENATED  
HYDANTOINS) 5.1 8 III

Emergency Response Guide Number: ERG # 140

Transportation Notes: Material is not regulated as a marine pollutant for ground, rail  
car, or aircraft transportation within the USA if shipped in non  
bulk packages per marine pollutant exception 49 CFR  
171.4(c).

EMS: F-A, S-Q

## 15. REGULATORY INFORMATION

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### UNITED STATES:

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.  
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

#### Reportable Quantity (49 CFR 172.101, Appendix):

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ZUS\_CERCLA Reportable quantity None established  
 ZUS\_SAR302 Reportable quantity None established

**Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components**

ZUS\_SAR313 De minimis concentration None established

**Clean Air Act Toxic ARP Section 112r:**

CAA 112R None established

**Clean Air Act Socmi:**

HON SOC None established

**Clean Air Act VOC Section 111:**

CAA 111 None established

**Clean Air Act Haz. Air Pollutants Section 112:**

ZUS\_CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

**State Right-to-Know Regulations Status of Ingredients**

**Pennsylvania:**

CAS #	COMPONENT NAME
ZUSPA_RTK	None established

**New Jersey:**

CAS #	COMPONENT NAME
ZUSNJ_RTK	None established

**Massachusetts:**

CAS #	COMPONENT NAME
ZUSMA_RTK	None established

**California Proposition 65:**

CAS #	COMPONENT NAME
ZUSCA_P65	None established

**WHMIS Hazard Classification:**

LEISURE TIME BROM TABS

REVISION DATE : 04/13/2012

None established

## 16. OTHER INFORMATION

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MSDS REVISION STATUS :

SECTIONS REVISED: 14

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. .