




MATERIAL SAFETY DATA SHEET

GLB Brominating Tablets

1. Product And Company Identification			
Supplier GLB 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770)521-5999 FAX Number: (770)521-5959 Web Site: www.poolspacare.com		Manufacturer Advantis Technologies, Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300		Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	
Issue Date: 02/20/2008 Product Name: GLB Brominating Tablets CAS Number: 32718-18-6 Chemical Family: Halogenated Hydantoin MSDS Number: 345			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
BROMOCHLORO-5,5-DIMETHYLHYDANTOIN		32718-18-6	
EMERGENCY OVERVIEW			
White to off-white granular solid with faint halogenous odour Corrosive Causes irreversible eye damage and skin burns Irritating to nose and throat May be fatal if inhaled Harmful if absorbed through skin or swallowed Oxidizer			
Hazards Identification (Pictograms)			
			
3. Hazards Identification			
Primary Routes(s) Of Entry Skin contact, Inhalation, Ingestion, Eye Contact.			
Eye Hazards Corrosive. May cause permanent eye damage.			
Skin Hazards Exposure to wet skin may cause severe irritation. May cause skin sensitization.			

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3. Hazards Identification - Continued

Ingestion Hazards

May be fatal if swallowed.

Inhalation Hazards

Irritant to upper respiratory tract. Shortness of breath, headache and nausea.

Chronic/Carcinogenicity Effects

There are no known chronic hazards.

Conditions Aggravated By Exposure

Existing dermatitis may be aggravated by exposure.

4. First Aid Measures

Eye

Hold eyes 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 advise.

Skin

Take off contaminated clothing. If contact with skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. Call a poison control center or doctor for treatment advise.

Ingestion

Call a physician or poison control center immediately for treatment advise. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Inhalation

If inhaled: Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

Note To Physician

Probable mucosal damage may contraindicate the use of gastric lavage.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: None °F

Autoignition Point: N/A °F

Flammability Class: Not flammable

Fire And Explosion Hazards

Strong oxidizing agent. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. When heated to decomposition, may release poisonous and corrosive fumes.

Extinguishing Media

Dry powder, carbon dioxide or water spray.

Fire Fighting Instructions

Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

6. Accidental Release Measures

Personal Precautions:

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6. Accidental Release Measures - Continued

Evacuate area. Use dust respirator, rubber gloves and chemical safety goggles.

Methods for Cleaning Up:

Sweep up, place in a suitable container and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Avoid access to streams, lakes or ponds.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

Keep containers tightly closed.

Storage Precautions

Keep away from all sources of ignition. Recommended storage temperature below 30C. Store in a dry, well-ventilated area away from incompatible materials.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Use local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain atmospheric concentration below exposure limit (TLV-TWA: 0.1 mg/m3).

Eye/Face Protection

Chemical safety goggles

Skin Protection

Body covering clothes and boots
PVC gloves

Respiratory Protection

Approved respirator

Other/General Protection

Do not eat, smoke or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Safety shower and eye bath should be provided.

9. Physical And Chemical Properties

Appearance

White to off-white tablet

Odor

Faint halogen odor.

Chemical Type: Mixture

Physical State: Solid

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9. Physical And Chemical Properties - Continued

Odor - Continued

Melting Point: N/A °F

Boiling Point: N/A °F

Specific Gravity: 1.8-2.0

Molecular Weight: 241.5

Vapor Pressure: 9.35×10^{-3} Pa (25C)

Vapor Density: N/A

Solubility: 0.22g/100ml in water

Evaporation Rate: N/A

10. Stability And Reactivity

Stability: Stable under normal conditions

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Exposure to moisture

Heating above decomposition temperature (160C)

Incompatible Materials

Oxidizing agents, bases, combustible organic materials

Hazardous Decomposition Products

CO, HBr, Cl₂, NO_x, HCl, CO₂

Conditions To Avoid (Polymerization)

Will not occur under normal conditions.

11. Toxicological Information

Skin Effects

Dermal irritation (rabbit): Corrosive

Dermal sensitization (guinea pig): Sensitizer

Acute Oral Effects

Oral LD50: 929 mg/kg (rat).

Acute Inhalation Effects

Rat Inhalation LC50: 1.1 mg/l/4 hour (powder)

Chronic/Carcinogenicity

Not known to be a carcinogen.

Not classified by IARC.

Not included in NTP 10th Report on Carcinogens.

Mutagenicity (Genetic Effects)

Mutagenic by the Ames Test

Mutagenic in the mouse lymphoma L5178Y test system

Non genotoxic in micronucleous test in mice

Non genotoxic in in-vivo liver unscheduled DNA synthesis (USD) assay

12. Ecological Information

Acute Toxicity - Fish And Invertebrates

96 Hour-LC50, Fish:	1.2 mg/l (Eastern oyster, Acute flow through)
	1.9 mg/l (Mysid shrimp, Acute flow through)
	0.4 mg/l (Rainbow trout, Static)
	0.46 mg/l (Bluegill sunfish, Static)
	1.6 mg/l (Sheepshead minnow, Acute flow through)

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12. Ecological Information - Continued

Acute Toxicity - Fish And Invertebrates - Continued

48 Hour-LC50, Daphnia magna 0.75 mg/l (Static)

Acute And Dietary Toxicity - Birds

Oral LD50, Bobwhite quail 1839 mg/kg

Dietary LC50, Mallard duck >5620 ppm

Dietary LC50, Bobwhite quail >5620 ppm

13. Disposal Considerations

Disposal Method:

Dispose of in approved landfill sites or an approved incinerator. Crush and bury empty containers. Avoid access to streams, lakes, or ponds. Observe all federal, state, and local environmental regulations when disposing of this material.

Empty Container:

Crush and bury empty containers.

14. Transport Information

Proper Shipping Name

Oxidizing Solid, n.o.s. (Bromo, Chloro-5,5-DimethylHydantoin)

Hazard Class

5.1, PGII (<=1 kg Consumer Commodity ORM-D)

DOT Identification Number

UN1479

DOT (Pictograms)



15. Regulatory Information

U.S. Regulatory Information

This product is registered under FIFRA.

TSCA: EPA Number P-94-34

Subject to reporting under SNUR (Significant New Use Rule) -any use, 60 FR 11037

SARA Hazard Classes

Acute Health Hazard

Reactivity Hazard

SARA Section 313 Notification

This product does not contain a chemical listed at or above de minimis concentrations.

State Regulations

This product or its components are not listed on any California Proposition 65 list of carcinogens or reproductive toxicants.

Other International Regulations

EEC No. 251-171-5

Japanese META: ENCS No.:5-6368

China Inventory: Listed

Philippines: Listed in PICCS

Not listed under CERCLA.

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have

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15. Regulatory Information - Continued

Other International Regulations - Continued

the following EPA hazardous waste number: D001.

NFPA



HMIS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

This MSDS Superceeds A Previous MSDS Dated: 03/07/2002

Disclaimer

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GLB

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