



MATERIAL SAFETY DATA SHEET

GLB Small 1 inch 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
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
ACEAN - DAY OR NIGHT: (800) 654-6911

Manufacturer Emergency Contacts & Phone Number

CHEMTREC - DAY OR NIGHT: (800) 424-9300
ACEAN - DAY OR NIGHT: (800) 654-6911

Issue Date: 01/09/2009

Product Name: GLB Small 1 inch Tablets
Chemical Name: Trichloro-s-Triazinetrione
CAS Number: Not Established
Chemical Family: Chloroisocyanurates / Swimming pool sanitizer
MSDS Number: 415

Synonyms

Trichloroisocyanuric Acid, TCCA, Trichlor

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Trichloro-s-Triazinetrione	87-90-1	96 - 100

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

EMERGENCY OVERVIEW

Corrosive to eyes and skin, Lung toxin, Toxic by ingestion, Toxic by inhalation (dust), Oxidizer

3. Hazards Identification

Primary Routes(s) Of Entry

Inhalation, skin, eyes, ingestion

Eye Hazards

CAUSES BURNS TO EYES. Severe irritation and/or burns can occur following eye exposure. Direct contact may cause impairment of vision and corneal damage.

Skin Hazards

DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. WET MATERIAL CAUSES SKIN BURNS. Dermal exposure to dry material causes moderate skin irritation characterized by redness and swelling. Dermal exposure to wet material can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged skin exposure may cause permanent damage.

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3. Hazards Identification - Continued

Ingestion Hazards

Toxic if swallowed. **CAUSES BURNS TO DIGESTIVE TRACT.** Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration. Ingestion may cause severe damage to the gastrointestinal tract with the potential to cause perforation.

Inhalation Hazards

This product in the form of solid tablets is not an inhalation hazard. However, if dust is created and inhaled, inhalation of this material in dust or vapor form is irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage. Toxic by inhalation (dust).

Subchronic (Target Organ Effects)

This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to the mucous membranes and respiratory tract. The dry material is irritating to the skin. However, when wet, it will produce burns to the skin.

Chronic/Carcinogenicity Effects

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

Inhalation: There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.

Skin Contact: Effects similar to those from acute exposure. In addition, chronic exposure to wet material may cause effects secondary to tissue destruction.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure. The acute corrosivity of this product, makes chronic ingestion of significant amounts unlikely.

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

Chronic Target Organ Toxicity: There are no known or reported target organ effects from chronic exposure. Toxicological investigation indicates it does not produce significant effects from chronic exposure.

Reproductive Effects

Not known or reported to cause reproductive or developmental toxicity.

Conditions Aggravated By Exposure

Asthma, Respiratory and Cardiovascular Disease

No additional health information available.

First Aid (Pictograms)



4. First Aid Measures

Eye

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.

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4. First Aid Measures - Continued

Skin

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.

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.

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.

Note To Physician

Probable mucosal damage may contraindicate the use of gastric lavage. 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.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: N/A °F
Autoignition Point: N/A °F
Flammability Class: NOT FLAMMABLE
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A

Fire And Explosion Hazards

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Closed containers may explode (due to the build up of steam pressure) when exposed to extreme heat.

Extinguishing Media

Water only.

Fire Fighting Instructions

Use water to cool containers exposed to fire. On small fires, use water spray or fog. On large fires, use heavy deluge or fog streams. Flooding large amounts of water may be required before extinguishment can be accomplished. Do not use dry extinguishers containing ammonium compounds.

Product is not known to be flammable, combustible or pyrophoric. NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1 Oxidizer

6. Accidental Release Measures

Personal Protection for Emergency Situation: Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air respirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment. Compatible materials for response to this material are: neoprene. Protection concerns must also address the following: If this material becomes damp/wet or

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6. Accidental Release Measures - Continued

contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog.

Water Release: This material is heavier than water. This material is soluble in water. Stop water flow or 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.

Additional Spill Information: FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300
REPORTABLE QUANTITY: Not Applicable (per 40 CFR 302.4) Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as gas evolution may occur. If material is wet, contact 1-800-654-6911 for proper stabilization procedures. Dispose of spill residues per guidelines under Section 13, Disposal Consideration. This material may be neutralized for disposal; you are requested to contact Arch Chemicals at 1-800-654-6911 before beginning any such procedure.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing dust, mist, vapor or gas.

Storage Precautions

Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Avoid creating dusts. Do not store at temperatures above 60 DEG C / 140 DEG F.

Incompatible Materials for Storage: organic materials, reducing agents, nitrogen containing materials, oxidizers, acids, bases (incompatible materials for packaging: paper, cardboard).

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presented by this material.

Shelf Life Limitations: Indefinite. Available chlorine loss can be as little as 0.1% per year at ambient temperatures.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

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.

Eye/Face Protection

Use chemical goggles.

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8. Exposure Controls/Personal Protection - Continued

Skin Protection

Wear impervious gloves to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.

Respiratory Protection

Wear a NIOSH approved respirator if levels above the exposure limits are possible.

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 IDHL atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Exposure Limit Data:

<u>Chemical Name</u>	<u>CAS#</u>	<u>Name of Limit</u>	<u>Exposure</u>
Trichloro-s-triazinetriene	87-90-1	ARCH-ROEG*	0.5 mg/m3 TWA

*ARCH-ROEG: Arch Recommended Occupational Exposure Guideline

Other/General Protection

An eye wash and safety shower should be provided in the immediate work area.

Protective Clothing Type: Nitrile, Natural rubber, Neoprene (This includes: gloves, boots, apron, protective suit).

9. Physical And Chemical Properties

Appearance

White tablet, stick, or granular

Odor

Sharp, chlorine-like, bleach odor

Chemical Type: Mixture

Physical State: Solid

Melting Point: Not applicable °F

Boiling Point: Not applicable °F

Specific Gravity: >1 (@ 20 DEG C)

Molecular Weight: 232.41

Percent Volatiles: Not applicable

Percent VOCs: Not applicable

Packing Density: 1.16-1.9 g/cc

Vapor Pressure: Not available

Vapor Density: Not applicable

pH Factor: 2.7-3.2 At a Concentration Of 1% solution

Solubility: 1.2% (@ 25 DEG C) in water

Viscosity: Not applicable

Evaporation Rate: Not Applicable

10. Stability And Reactivity

Stability: STABLE below temperature of 225 Deg. C

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid (Stability)

Sparks, open flame, other ignition sources, and elevated temperatures., Contact with small amounts or water may result in an exothermic reaction with the liberation of toxic fumes., Damp or slightly wet product (will evolve nitrogen trichloride), May be unstable at temperatures above 225 Deg. C (437 Deg. F)

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10. Stability And Reactivity - Continued

Incompatible Materials

Organic materials, oils, grease, sawdust, reducing agents, nitrogen-containing compounds, oxidizers, acids, bases, dry fire extinguishers containing ammonium compounds

Hazardous Decomposition Products

Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide

Conditions To Avoid (Polymerization)

Water on product while in container. Humidity

May be unstable at temperatures above 225 Deg. C (437 Deg. F). Not sensitive to mechanical shock. Not sensitive to static discharge. Product is an oxidizer.

11. Toxicological Information

Eye Effects

Corrosive to Eyes

Skin Effects

Dermal LD50 (component):

Trichloro-s-triazinetrione LD50 > 2,000 mg/kg Rabbit

Dermal LD50 (Product):

LD50 . 2,000 mg/kg Rabbit

DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. WET MATERIAL CAUSES SKIN BURNS.

Negative skin sensitizer, guinea pig - Buehler Method

Acute Oral Effects

Oral LD50 (Component):

Trichloro-s-triazinetrione LD50 = 490 mg/kg Rat

Oral LD50 (Product):

LD50 = 490 mg/kg Rat

Acute Inhalation Effects

Inhalation LC50 (Component):

Trichloro-s-triazinetrione LC50 1 h (aerosol dust), (Nose only) Approximately 2.16 MG/L Rat

Trichloro-s-triazinetrione LC50 4 h (aerosol dust), (Nose only) Approximately 0.54 MG/L Rat

Inhalation LC50 (Product):

LC50 1 h (aerosol dust), (Nose only) Approximately 2.16 MG/L Rat

LC50 4 h (aerosol dust), (Nose only) Approximately 0.54 MG/L Rat

This product is corrosive to all tissues contacted and upon inhalation may cause irritation to the mucous membranes and respiratory tract.

Subchronic (Target Organ Effects)

There are no known or reported effects from repeated exposure. Toxicological investigation indicates it does not produce significant effects from chronic exposure.

Chronic/Carcinogenicity

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

Trichloro-s-triazinetrione is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

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11. Toxicological Information - Continued

Teratogenicity (Birth Defects)

See Reproductive Effects

Reproductive Effects

Not known or reported to cause reproductive or developmental toxicity.

Trichloro-s-triazinetriene is not known or reported to cause reproductive or developmental toxicity. A similar product has been tested and it did not produce teratogenic or fetotoxic effects in laboratory animals.

Mutagenicity (Genetic Effects)

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

Trichloro-s-triazinetriene was determined to be non-mutagenic in the Ames assay.

12. Ecological Information

Ecotoxicological Information

Highly toxic to fish and other aquatic organisms.

Acute Toxicity - Fish And Invertebrates

96 hour-LC50, Fish: 0.32 mg/l (Rainbow trout, *Salmo gairdneri*)
0.30 mg/l (bluegill sunfish)

96 hour-LC50, *Daphnia magna*: 0.21 mg/l

Acute And Dietary Toxicity - Birds

Acute Oral LD50, Mallard duck: 1600 mg/kg

Dietary LC50 8 Days, Mallard duck: >10,000 ppm

Dietary LC50 8 Days, Bobwhite quail: 7422 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. If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal restrictions under 40 CFR 268 and must be managed accordingly.

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

14. Transport Information

Proper Shipping Name

TRICHLOROISOCYANURIC ACID DRY

Hazard Class

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

DOT Identification Number

UN2468

Additional Shipping Paper Description

Emergency Response Guide Number: ERG 140

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14. Transport Information - Continued

Additional Shipping Paper Description - Continued

This material is regulated as a DOT Hazardous Material. Hazard Label/Placard: 5.1 Oxidizer Reportable Quantity: Not applicable (Per 40 CFR 302.4) Not listed as a marine pollutant.

DOT (Pictograms)



15. Regulatory Information

U.S. Regulatory Information

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

FIFRA Listing of Pesticide Chemicals: This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

SARA Hazard Classes

Acute Health Hazard
Fire Hazard

SARA Section 313 Notification

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 Regulations

US Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323:

1990-01-01

1,3,5-Triazine-2,4,6(1H,3H,5H)-Trione, 1,3,5-trichloro-

US New Jersey Department of Environmental Protection - Bureau of Hazardous Substances New Jersey Right to Know Law, Haardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]

7989-12-01

Trichloroisocyanuric Acid

US The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-Know-Law, The Masschusetts Substance List, 105 CMR 670.000

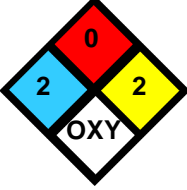
1991-07-01

Trichloro-s-triazinetriene

California Proposition 65: None established

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NFPA	HMIS								
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HEALTH	3								
FLAMMABILITY	0								
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PERSONAL PROTECTION	B								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

This MSDS Supercedes A Previous MSDS Dated: 04/20/2006

Disclaimer

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GLB

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