



# MATERIAL SAFETY DATA SHEET

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: **GLB CALCIUM HARDNESS UP**

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Supplier

**GLB**  
1400 Bluegrass Lakes Parkway ,  
Alpharetta, GA, 30004  
United States

Telephone: +17705215999  
Telefax: +17705215959  
Web: [www.poospacare.com](http://www.poospacare.com)

REVISION DATE: 10/27/2010  
SUPERCEDES: 05/28/2009  
MSDS Number: 000000012588  
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:

**Eye irritant, Mild skin irritant, Mild respiratory irritant**

Routes of Entry: Inhalation Skin Eyes Ingestion  
Chemical Interactions: No known or reported interactions.  
Medical Conditions Aggravated: None known or reported



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## 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	2	0	1	
NFPA	2	0	1	

## Immediate (Acute) Health Effects

Inhalation Toxicity:	Dust may be irritating to respiratory tract. If inhaled, mild irritation may result to the throat, upper respiratory tract, and lungs. Any irritation would be transient with no permanent damage expected.
Skin Toxicity:	Not expected to be toxic from dermal contact. Skin contact may cause minor irritation consisting of transient redness and/or swelling. This irritant effect would not be expected to result in permanent damage.
Eye Toxicity:	Contact with the eyes would be expected to cause moderate to severe irritation consisting of redness, swelling, and mucous discharge to the conjunctiva. Corneal injury with impairment of vision may occur. If not immediately rinsed from the eyes, thermal burns may occur because of the heat given off as it dissolves.
Ingestion Toxicity:	Moderately toxic if swallowed. Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea. Ulceration may also occur resulting in G.I. bleeding.
Acute Target Organ Toxicity:	Powder can cause irritation to eyes, skin & respiratory tract. Liquid solution can cause burns to the skin and eyes.

## 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:	Prolonged or repeated exposure may cause more severe irritation.
Skin Contact:	Prolonged contact may cause burns especially if skin is damp and/or abraded. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
Ingestion:	More pronounced gastroenteritis effects and damage to the stomach would probably occur if this material is repeatedly ingested.



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Eye Contact: Prolonged contact may result in permanent damage. Corneal involvement or visual impairment is expected.

Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Chronic Target Organ Toxicity: There are no known or reported target organ effects from chronic exposure.

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>
CALCIUM CHLORIDE	10043-52-4	
POTASSIUM CHLORIDE (KCL)	7447-40-7	
SODIUM CHLORIDE	7647-14-5	

### 4. FIRST AID MEASURES

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Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

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.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.



## **5. FIRE FIGHTING MEASURES**

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Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

### Flammable Properties

Fire / Explosion Hazards: Will not burn  
Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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.

## **6. ACCIDENTAL RELEASE MEASURES**

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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: not applicable  
Water Release: solubleIf 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.

## **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.  
Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials.  
Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."



## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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Ventilation: Local exhaust ventilation is recommended if significant dusting occurs.  
Otherwise use general exhaust ventilation.

### Protective Equipment for Routine Use of Product

Respiratory Protection : Respiratory protection not normally needed., If dusting occurs, wear a NIOSH approved N95 dust respirator.  
Skin Protection : Impervious gloves  
Eye Protection: Use chemical goggles.  
Protective Clothing Type: impervious clothing  
General Protective Measures: Emergency eyewash should be provided in the immediate work area.

### Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
No Data Found			

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State:	solid
Form	No data.
Color:	No data.
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	not applicable
pH :	9.0 - 11.0 10 g/l (as aqueous solution)
Boiling Point:	197.8 °C 388 °F
Freezing Point:	no data available
Melting Point:	no data available
Density:	not applicable
Bulk Density:	no data available
Vapor Pressure:	0.012 hPa 20 °C
Vapor Density:	not applicable
Viscosity:	no data available no data available
Solubility in Water:	soluble in cold water
Partition coefficient n-octanol/water:	Not applicable



Evaporation Rate: not applicable  
Oxidizing: None established  
Volatiles, % by vol.: not applicable  
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., Exposure to moisture.  
Chemical Incompatibility: Avoid moisture., Acids, Metals  
Hazardous Decomposition Products: No hazardous decomposition products are known.  
Decomposition Temperature: No data

## 11. TOXICOLOGICAL INFORMATION

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### Component Animal Toxicology

#### Oral LD50 value:

CALCIUM CHLORIDE LD50 = 1,000 mg/kg Rat  
POTASSIUM CHLORIDE LD50 = 2,600 mg/kg Rat  
(KCL)  
SODIUM CHLORIDE LD50 = 3,000 mg/kg Rat

### Component Animal Toxicology

#### Dermal LD50 value:

CALCIUM CHLORIDE LD50 = 2,630 mg/kg Rat  
POTASSIUM CHLORIDE No data  
(KCL)  
SODIUM CHLORIDE LD50 > 10,000 mg/kg Rabbit

### Component Animal Toxicology

#### Inhalation LC50 value:

CALCIUM CHLORIDE No data  
POTASSIUM CHLORIDE No data  
(KCL)  
SODIUM CHLORIDE Inhalation LC50 1 h > 42 MG/L Rat

### Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 1,000 mg/kg rat  
Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg rat





**Ecological Toxicity Values for: POTASSIUM CHLORIDE (KCL)**

- Gambusia affinis (Mosquito fish) - static test 96 h LC50 = 920 mg/l
- Lepomis macrochirus (Bluegill sunfish) - static test 96 h LC50 = 2,010 mg/l
- Daphnia magna (Water flea) - 48 h EC50= 825 mg/l

### 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 DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : not applicable

### 14. TRANSPORT INFORMATION

Land (US DOT): Not Regulated NOT REGULATED AS A DOT HAZARDOUS MATERIAL  
Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,  
Emergency Response Guide Number: Not applicable

### 15. REGULATORY INFORMATION

**UNITED STATES:**

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established





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FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

### Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard  
Physical None

### 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):

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



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### 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:

None established

## 16. OTHER INFORMATION

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MSDS REVISION STATUS :

SECTIONS REVISED: First formulated version in SAP.

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. .