PRODUCT NAME: GLB ALKALINITY UP

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier
GLB
1400 Bluegrass Lakes Parkway, Alpharetta, GA, 30004
USA
Telephone: +17705215999
Telefax: +17705215959
Web: www.poolspacare.com

Manufacturer
Advantis Technologies
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004
United States of America

REVISION DATE: 05/26/2015
SUPERCEDES: 03/01/2011
MSDS Number: 000000024498
SYNONYMS: None
CHEMICAL FAMILY: None
DESCRIPTION / USE: None established
FORMULA: None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Acute toxicity (Inhalation) : Category 4

GHS Label element
Hazard pictograms :

Signal word : Warning
Hazard statements : H332 Harmful if inhaled.
Precautionary statements:

**Prevention:**
P261 Avoid breathing vapours.
P271 Use only outdoors or in a well-ventilated area.

**Response:**
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Other hazards**
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS OR CHEMICAL NAME</th>
<th>CAS #</th>
<th>% RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>144-55-8</td>
<td>100</td>
</tr>
</tbody>
</table>

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

**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: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.

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

**Ingestion:**
IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never 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
- **Fire / Explosion Hazards:** Material will not ignite or 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.

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: Not applicable
Water Release: Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.
Land Release: Sweep up and shovel into suitable containers for disposal. Avoid creating dust. Do not place spill materials back in their original containers.
Additional Spill Information: Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

SECTION 7. HANDLING AND STORAGE

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.
Shelf Life Limitations: Do not store at temperatures above:
Incompatible Materials for Storage: Refer to Section 10, “Incompatible Materials.”
Do Not Store At temperatures Above: 85 °C

Do not store at temperatures above:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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: Safety glasses with side-shields
Protective Clothing Type: impervious clothing

No hazardous ingredients

Components with workplace control parameters
no data available

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>solid</td>
</tr>
<tr>
<td>Form</td>
<td>No data.</td>
</tr>
<tr>
<td>Color</td>
<td>No data.</td>
</tr>
<tr>
<td>Odor</td>
<td>No data.</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>84 g/mol</td>
</tr>
<tr>
<td>pH</td>
<td>8.5</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>0.993 g/cm³</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>() no data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>95 g/l</td>
</tr>
<tr>
<td></td>
<td>68 °F (20 °C)</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>No data</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing</td>
<td>None established</td>
</tr>
<tr>
<td>Volatiles, % by vol.</td>
<td>no data available</td>
</tr>
<tr>
<td>VOC Content</td>
<td>This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI 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.</td>
</tr>
<tr>
<td>HAP Content</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions., Product will not undergo hazardous polymerization.

Conditions to Avoid: Heat

Chemical Incompatibility: Acids

Hazardous Decomposition Products: Carbon dioxide (CO2)

Decomposition Temperature: No data
SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology
Oral LD50 value:
Sodium Bicarbonate LD50 > 5,000 mg/kg Rat

Component Animal Toxicology
Dermal LD50 value:
Sodium Bicarbonate LD50 > 2,000 mg/kg Rabbit

Component Animal Toxicology
Inhalation LC50 value:
Sodium Bicarbonate Inhalation LC50 4 h (Whole-body) > 4.74 mg/l Rat

Product Animal Toxicity
Oral LD50 value: LD50 > 5,000 mg/kg Rat
Dermal LD50 value: LD50 > 2,000 mg/kg Rabbit
Inhalation LC50 value: LC50 4 h (Whole-body) > 4.74 mg/l Rat

Skin Irritation: Not expected to cause irritation.
Eye Irritation: This material is expected to be slightly irritating.
Skin Sensitization: Not believed to be sensitising to skin.

Acute Toxicity: There are no known or reported target organ effects from acute exposure.
Subchronic / Chronic Toxicity: Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity: This product did not cause developmental effects in a study with laboratory animals.

Mutagenicity: This chemical has been tested and was shown to be non-mutagenic.

Carcinogenicity: This material did not cause cancer in long-term animal studies.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Practically non-toxic to fish and other aquatic organisms.
Ecological Toxicity Values for: Sodium Bicarbonate

<table>
<thead>
<tr>
<th>Species</th>
<th>Condition</th>
<th>96 h LC50 (mg/l)</th>
<th>48 h LC50 (mg/l)</th>
<th>48 h EC50 (mg/l)</th>
<th>21 day EC50 (chronic toxicity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegill sunfish</td>
<td>measured, flow-through</td>
<td>7,100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainbow trout (Oncorhynchus mykiss)</td>
<td>nominal, static</td>
<td>8,600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mosquito fish</td>
<td>nominal, static</td>
<td>7,550</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daphnia magna,</td>
<td>measured, flow-through</td>
<td>4,100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceriodaphnia dubia</td>
<td>nominal, static</td>
<td>1,075</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daphnia magna,</td>
<td>static, renewal</td>
<td></td>
<td></td>
<td>576</td>
<td></td>
</tr>
</tbody>
</table>

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 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.

SECTION 14. TRANSPORT INFORMATION

**DOT**
Not dangerous goods

**TDG**
Not dangerous goods

**IATA**
Not dangerous goods

**IMDG-CODE**
Not dangerous goods

SECTION 15. REGULATORY INFORMATION
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 SOCMI 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. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water 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
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know
Sodium hydrogencarbonate 144-55-8

New Jersey Right To Know
Sodium hydrogencarbonate 144-55-8

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)

**SECTION 16. OTHER INFORMATION**

- **SECTIONS REVISED**: 1
- **Major References**: Available upon request.

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