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

PRODUCT NAME: **QUANTUM pH DOWN**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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|--|---|
| Supplier Quantum Biochemical 1400 Bluegrass Lakes Parkway , Alpharetta, GA, 30004 USA | REVISION DATE: 05/26/2015 SUPERCEDES: 05/28/2009 |
| Telephone: +17705215999 Telefax: +17705215959 Web: www.poolspacare.com | MSDS Number: 000000024499 SYNONYMS: CHEMICAL FAMILY: None DESCRIPTION / USE: None established FORMULA: None established |

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/ physician.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>CAS OR CHEMICAL NAME</u> | <u>CAS #</u> | <u>% RANGE</u> |
|--------------------------------|--------------|----------------|
| SULFURIC ACID, MONOSODIUM SALT | 7681-38-1 | 92 - 98 |
| SULFURIC ACID DISODIUM SALT | 7757-82-6 | 2 - 6 |

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. If not breathing, give artificial respiration. Call for medical assistance.

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 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: 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.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or explosive.

Flammable Properties

Flash Point: Not applicable
 Autoignition Temperature: No data

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| 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. |
| Hazardous Combustion Products: | During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. |
| Upper Flammable / Explosive Limit, % in air: | No data |
| Lower Flammable / Explosive Limit, % in air: | No data |

SECTION 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: | 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

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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. Avoid contact with water, or moist air. |
| Storage: | Store in a cool, dry and well ventilated place. Isolate from incompatible materials. |
| Incompatible Materials for Storage: Do Not Store At temperatures Above: | Refer to Section 10, "Incompatible Materials." 175 °C |
| Empty Container Warning: | Empty containers retain hazardous residue, dispose of accordingly. |

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 : If dusting occurs, wear a NIOSH approved respirator., NIOSH approved full-face air purifying respirator with an N95 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 : Avoid contact with skin. Impervious gloves

Eye Protection: Chemical resistant goggles must be worn.

Protective Clothing Type: Butyl rubber, Neoprene

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

Components with workplace control parameters

no data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|-------------------------|
| Physical State: | solid |
| Form | No data. |
| Color: | white |
| Odor: | No data. |
| Molecular Weight: | 120 g/mol |
| pH : | 0.0 - 1.0 () 50 g/l |
| Boiling Point: | Not applicable |
| Melting point/freezing point | 350.1 °F (176.7 °C) |
| Density | no data available |
| Bulk Density: | 155 kg/m3 () |
| Vapor Pressure: | no data available |
| Vapor Density: | Not applicable |
| Viscosity: | no data available |
| Solubility in Water: | soluble |
| Partition coefficient n-octanol/water: | Not applicable |
| Evaporation Rate: | Not applicable |
| Oxidizing: | None established |
| Volatiles, % by vol.: | Not applicable |
| VOC Content | |

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I 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.

HAP Content

Not applicable

SECTION 10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Heat, Exposure to moisture

Chemical Incompatibility: Bases, Acids, Oxidizing agents

Hazardous Decomposition Products: Sulphur oxides

Decomposition Temperature: 315 °C

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

SULFURIC ACID, LD50 Believed to be 2,800 mg/kg Rat
MONOSODIUM SALT

SULFURIC ACID LD50 = 5,989 mg/kg Mouse
DISODIUM SALT

LD50 Believed to be > 10,000 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

SULFURIC ACID, No data
MONOSODIUM SALT

SULFURIC ACID no data available
DISODIUM SALT

Component Animal Toxicology

Inhalation LC50 value:

SULFURIC ACID, No data
MONOSODIUM SALT

SULFURIC ACID no data available
DISODIUM SALT

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 3,000 mg/kg Rat

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

Inhalation LC50 value: no data available

Skin Irritation: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL CAUSES SKIN BURNS.

Eye Irritation: Corrosive to eyes

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

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

irritation to mucous membranes and respiratory tract. The dry material is irritating to the skin. However when wet, it will produce burns to the skin.
 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.
 SULFURIC ACID DISODIUM SALT This product was determined to be non-mutagenic in the Ames assay., This product has been shown to be negative for cell transformation in the Syrian hamster embryo (SA7/SHE) cell assay.

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

SECTION 12. ECOLOGICAL INFORMATION

Overview: Slightly toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: SULFURIC ACID DISODIUM SALT

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|--|---|-------------------------|
| Lepomis macrochirus (Bluegill sunfish) | - | 96 h LC50 = 12,750 mg/l |
| Pimephales promelas (fathead minnow) | - | 96 h LC50 = 7,960 mg/l |
| Gambusia affinis (Mosquito fish) | - | 96 h LC50 = 3,710 mg/l |
| Daphnia magna (Water flea) | - | 48 h LC50= 2,564 mg/l |
| Ceriodaphnia dubia | - | 48 h LC50= 3,080 mg/l |

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 SOCM I 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. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater 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

| | |
|-----------------|-----------|
| Sodium sulphate | 7757-82-6 |
|-----------------|-----------|

Pennsylvania Right To Know

| | |
|-------------------------|-----------|
| Sodium hydrogensulphate | 7681-38-1 |
| Sodium sulphate | 7757-82-6 |

New Jersey Right To Know

| | |
|-------------------------|-----------|
| Sodium hydrogensulphate | 7681-38-1 |
| Sodium sulphate | 7757-82-6 |

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: First formulated version in SAP.
Major References : Available upon request.

SAFETY DATA SHEET

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. .