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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: **GLB FILTER CLEANSE**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier

GLB
1400 Bluegrass Lakes Parkway ,
Alpharetta, GA, 30004
USA

Telephone: +17705215999
Telefax: +17705215959
Web: www.poolspacare.com

| | |
|-------------------|------------------|
| REVISION DATE: | 05/26/2015 |
| SUPERCEDES: | 10/26/2010 |
| MSDS Number: | 000000024372 |
| 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

Skin irritation : Category 2

Serious eye damage : Category 1

GHS Label element

Hazard pictograms : 

Signal word : Danger

| | | |
|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements | : | H315 Causes skin irritation. H318 Causes serious eye damage. |
| Precautionary statements | : | <p>Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection. P280 Wear protective gloves.</p> <p>Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.</p> <p>Storage: P402 + P404 Store in a dry place. Store in a closed container. P410 + P403 Protect from sunlight. Store in a well-ventilated place.</p> <p>Disposal: P501 Dispose of contents/container in accordance with local regulation.</p> |

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 | 80 - 85 |
| Citric Acid | 77-92-9 | 5 - 15 |
| SULFURIC ACID DISODIUM SALT | 7757-82-6 | 2 - 8 |
| sodium dodecylbenzenesulfonate | 25155-30-0 | 0 - 2 |

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. |
| 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

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Spill Mitigation Procedures

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Air Release: | Keep people away from and upwind of spill/leak. |
| Water Release: | If 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. |

SECTION 7. HANDLING AND STORAGE

Handling: Keep container closed when not in use. Avoid contact with skin, eyes and clothing.
 Storage: Store in a cool dry place. Keep out of reach of children.
 Incompatible Materials for Storage: Keep away from metals.

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., Wear a NIOSH approved N95 respirator.
 Skin Protection : Avoid contact with skin. Impervious gloves
 Eye Protection: Chemical resistant goggles must be worn.
 Protective Clothing Type: impervious clothing, 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

| | |
|------------------------------|-------------------------------------------|
| Physical State: | solid |
| Form | No data. |
| Color: | purple |
| Odor: | slight |
| Molecular Weight: | None established |
| pH : | < 1.0 () 10 g/l (as aqueous solution) |
| Boiling Point: | 219.9 °F (104.4 °C) |
| Melting point/freezing point | Not applicable |
| Bulk Density: | () no data available |
| Vapor Pressure: | no data available |
| Vapor Density: | Not applicable |
| Viscosity: | no data available |
| Solubility in Water: | 300 g/l 68 °F (20 °C) |

| | |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water: | Not applicable |
| Evaporation Rate: | Not applicable |
| Oxidizing: | None established |
| Volatiles, % by vol.: | no data available |
| VOC Content | no data available 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. |
| Conditions to Avoid: | Heat |
| Chemical Incompatibility: | Oxidizing agents, Cyanides, Sulphides, Bases |
| Hazardous Decomposition Products: | Sulphur oxides, Other hazardous decomposition products may be formed. |
| Decomposition Temperature: | No data |

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

| | | | | |
|--------------------------------|------|------------------|--------------|-------|
| SULFURIC ACID, MONOSODIUM SALT | LD50 | Believed to be | 2,800 mg/kg | Rat |
| Citric Acid | LD50 | = | 3,000 mg/kg | Rat |
| SULFURIC ACID DISODIUM SALT | LD50 | = | 5,989 mg/kg | Mouse |
| | LD50 | Believed to be > | 10,000 mg/kg | Rat |
| sodium dodecylbenzenesulfonate | LD50 | = | 438 mg/kg | Rat |

Component Animal Toxicology

Dermal LD50 value:

| | |
|--------------------------------|------------------------------------------|
| SULFURIC ACID, MONOSODIUM SALT | No data |
| Citric Acid | LD50 Believed to be > 2,000 mg/kg Rabbit |
| SULFURIC ACID DISODIUM SALT | no data available |
| sodium dodecylbenzenesulfonate | no data available |

Component Animal Toxicology

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Inhalation LC50 value:

SULFURIC ACID, MONOSODIUM SALT No data
Citric Acid no data available

SULFURIC ACID DISODIUM SALT no data available
sodium dodecylbenzenesulfonate no data available

Product Animal Toxicity

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

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

Inhalation LC50 value: No data.

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

Eye Irritation: Corrosive to eyes

Skin Sensitization: Not believed to be sensitising to skin.

Subchronic / Chronic Toxicity: There are no known or reported effects to humans from repeated exposure to this product.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Citric Acid This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity or teratogenicity.

sodium dodecylbenzenesulfonate This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity, teratogenicity, or developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

Citric Acid This product was determined to be non-mutagenic in the Ames assay. It was also shown to be negative in the Dominant lethal assay.

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.

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

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

Citric Acid The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.

sodium dodecylbenzenesulfonate The carcinogenicity has been evaluated through animal

study and it was found not to be carcinogenic.

SECTION 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: Citric Acid

- | | | |
|----------------------------------------|---|----------------------------------|
| Lepomis macrochirus (Bluegill sunfish) | - | (static). 96 h LC50 = 1,516 mg/l |
| Daphnia magna (Water flea) | - | 72 h EC50 Approximately 120 mg/l |

Ecological Toxicity Values for: SULFURIC ACID DISODIUM SALT

- | | | |
|----------------------------------------|---|-------------------------|
| 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 |

Ecological Toxicity Values for: sodium dodecylbenzenesulfonate

- | | | |
|----------------------------------------|---|----------------------|
| Oncorhynchus mykiss (rainbow trout) | - | 96 h LC50 = 3.2 mg/l |
| Lepomis macrochirus (Bluegill sunfish) | - | 96 h LC50 = 2.8 mg/l |
| Daphnia magna (Water flea) | - | 48 h LC50= 9.4 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.

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

Potential US EPA Waste Codes : LONZA-N09.00602550

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

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|--------------------------------|------------|--------------------|-----------------------------|
| sodium dodecylbenzenesulfonate | 25155-30-0 | 1000 | |

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

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

| | | |
|-----------------------------------|------------|----------|
| sodium dodecylbenzenesulfonate | 25155-30-0 | 1.1197 % |
|-----------------------------------|------------|----------|

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| | | |
|-----------------------------------|------------|----------|
| sodium dodecylbenzenesulfonate | 25155-30-0 | 1.1197 % |
|-----------------------------------|------------|----------|

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 |
| Citric acid | 77-92-9 |
| Sodium sulphate | 7757-82-6 |

New Jersey Right To Know

| | |
|-----------------------------------|------------|
| Sodium hydrogensulphate | 7681-38-1 |
| Citric acid | 77-92-9 |
| Sodium sulphate | 7757-82-6 |
| sodium dodecylbenzenesulfonate | 25155-30-0 |

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.

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. .