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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 DROP N' VAC**

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: | 05/13/2009 |
| MSDS Number: | 000000024421 |
| 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 corrosion : Category 1B

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

- Hazard statements : H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
- Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
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.
P363 Wash contaminated clothing before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>CAS OR CHEMICAL NAME</u> | <u>CAS #</u> | <u>% RANGE</u> |
|---|--------------|----------------|
| ALUMINUM CHLORIDE | 7446-70-0 | |
| 2-PROPEN-1-AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C | 26062-79-3 | |
| ALUMINUM CHLORIDE | 7446-70-0 | >= 10 - < 20 |

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. |
| Notes to Physician: | Probable mucosal damage may contraindicate the use of gastric lavage. |

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: | Choose extinguishing media suitable for surrounding materials. |
| 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 available |
| Lower Flammable / Explosive Limit, % in air: | no data available |

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: | Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog. |
| Water Release: | This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. |

Land Release: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid runoff into storm sewers and ditches which lead to waterways.

Additional Spill Information : Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

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 vapours, mist or gas.

Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

Empty Container Warning: Empty containers retain hazardous residue, dispose of accordingly.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation. No exposure limits exist for the constituents of this product.

Protective Equipment for Routine Use of Product

Respiratory Protection : Respiratory protection not normally needed., If vapors, mists or aerosols are generated, wear a NIOSH approved respirator., Wear a NIOSH approved N95 respirator.

Skin Protection : Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: impervious clothing

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

Components with workplace control parameters

| Components (CAS-No.) | Value | Control parameters | Basis (Update) |
|-------------------------------|-------|---------------------|-----------------|
| ALUMINUM CHLORIDE (7446-70-0) | TWA | 1 mg/m ³ | ACGIH (02 2014) |
| ALUMINUM CHLORIDE (7446-70-0) | TWA | 1 mg/m ³ | ACGIH (02 2014) |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Physical State: | liquid |
| Form | liquid |
| Color: | clear |
| Odor: | None |
| Molecular Weight: | None established |
| pH : | 1.5 - 2.0 () |
| Boiling Point: | 219.9 °F (104.4 °C) |
| Melting point/freezing point | No data |
| Bulk Density: | () no data available |
| Vapor Pressure: | no data available |
| Vapor Density: | no data available |
| Viscosity: | no data available |
| Solubility in Water: | soluble in cold water |
| Partition coefficient n-octanol/water: | No data. |
| Evaporation Rate: | no data available |
| 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 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: | High temperatures, Avoid freezing. |
| Chemical Incompatibility: | Oxidizing agents, Metals, alkalis |
| Hazardous Decomposition Products: | hydrochloric acid |
| Decomposition Temperature: | No data |

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

| | | |
|---|--------------------|-----|
| ALUMINUM CHLORIDE | LD50 = 3,450 mg/kg | Rat |
| 2-PROPEN-1-AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C | LD50 > 5,000 mg/kg | Rat |

ALUMINUM CHLORIDE LD50 = 3,450 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

ALUMINUM CHLORIDE LD50 > 2,000 mg/kg Rabbit
 2-PROPEN-1-AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C LD50 > 20,000 mg/kg Rabbit
 ALUMINUM CHLORIDE LD50 > 2,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

ALUMINUM CHLORIDE LC50 no data available

2-PROPEN-1-AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C No data
 ALUMINUM CHLORIDE LC50 no data available

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 5,000 mg/kg Rat
Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit
Inhalation LC50 value: no data available

Skin Irritation: Corrosive to skin
 Eye Irritation: Corrosive to eyes
 Skin Sensitization: Not believed to be sensitising to skin.

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

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.

ALUMINUM CHLORIDE This material has been shown to be non-mutagenic in the majority of a battery of assays. Not expected to be a mutagenic hazard.
 This material has been shown to be non-mutagenic in the majority of a battery of assays. Not expected to be a mutagenic hazard.

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 - Product:

- LC50 Believed to be approximately 10.8 mg/l (calculated)

Ecological Toxicity Values for: ALUMINUM CHLORIDE

| | | | |
|-------------------------------------|---|-----------|-----------|
| Rainbow trout (Oncorhynchus mykiss) | - | 96 h LC50 | 6.1 mg/l |
| Mosquito fish | - | 96 h LC50 | 27.1 mg/l |
| Daphnia magna, | - | 48 h LC50 | 3.9 mg/l |

Ecological Toxicity Values for: 2-PROPEN-1-AMINIUM, N,N-DIMETHYL-N-2-PROPENYL-, C

| | | | |
|----------------------------------|---|-------------|---|
| Bluegill sunfish | - | 96 h LC50 = | 0.82 - 1.3 mg/l, (40% Solution) |
| Rainbow trout (Salmo gairdneri), | - | 96 h LC50 | 0.37 mg/l (40% Solution) |
| Daphnia magna, | - | 48 h LC50= | 0.9 mg/l (In clear water), (40% Solution) |
| Daphnia magna, | - | 48 h LC50= | 1.2 - 2.5 mg/l, (In 50 ppm clay suspension), (40% Solution) |
| Daphnia magna, | - | 48 h LC50= | 24.8 mg/l (In 1000 ppm clay suspension), (40% Solution) |

Ecological Toxicity Values for: ALUMINUM CHLORIDE

| | | | |
|-------------------------------------|---|-----------|-----------|
| Rainbow trout (Oncorhynchus mykiss) | - | 96 h LC50 | 6.1 mg/l |
| Mosquito fish | - | 96 h LC50 | 27.1 mg/l |
| Daphnia magna, | - | 48 h LC50 | 3.9 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 will be a hazardous waste.

Disposal Methods : As a hazardous liquid waste it must be disposed of in accordance

with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 2581
Description of the goods : Aluminum chloride, solution
Class : 8
Packing group : III
Labels : 8
Emergency Response : 154
Guidebook Number

TDG

UN number : 2581
Description of the goods : ALUMINUM CHLORIDE SOLUTION
Class : 8
Packing group : III
Labels : 8

IATA

UN number : 2581
Description of the goods : Aluminium chloride solution
Class : 8
Packing group : III
Labels : 8
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852
Packing instruction (passenger aircraft) : Y841

IMDG-CODE

UN number : 2581
Description of the goods : ALUMINIUM CHLORIDE SOLUTION
Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

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**

| | |
|--------------------|-----------|
| aluminium chloride | 7446-70-0 |
|--------------------|-----------|

Pennsylvania Right To Know

| | |
|--------------------|-----------|
| aluminium chloride | 7446-70-0 |
|--------------------|-----------|

New Jersey Right To Know

| | |
|---|------------|
| aluminium chloride | 7446-70-0 |
| 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer | 26062-79-3 |

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.

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. .