

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 ALGIMYCIN 3000**

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Advantis Technologies**  
**1400 Bluegrass Lakes Parkway**  
**Alpharetta, GA 30004**  
**United States of America**

REVISION DATE: 12/04/2013  
SUPERCEDES:  
MSDS Number: 000000014960  
SYNONYMS: None  
CHEMICAL FAMILY: Mixture  
DESCRIPTION / USE: None established  
FORMULA: Not Applicable/Mixture

## 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	<b>This product is not considered to be hazardous under OSHA 29 CFR 1910.1200.</b>
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Routes of Entry: This product will not exert a significant adverse effect to health from any route of exposure.  
Chemical Interactions: None known.  
Medical Conditions Aggravated: None known.

### 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	0	0	0	
NFPA	0	0	0	

**Immediate (Acute) Health Effects**

Inhalation Toxicity:	Not expected to cause irritation. Not expected to be toxic by inhalation.
Skin Toxicity:	Not expected to cause irritation. Not expected to be toxic from dermal contact.
Eye Toxicity:	Not expected to cause irritation.
Ingestion Toxicity:	Not expected to be toxic by ingestion. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Acute Target Organ Toxicity:	None known.

**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. The carcinogenicity of the active ingredient in this product has been evaluated through animal study and it was found not to be carcinogenic.
Reproductive and Developmental Toxicity:	No reproductive or developmental risk to humans is expected from exposure to this product. The active ingredient in this product has been tested in laboratory animals and no evidence of teratogenicity or fetotoxicity was seen.
Inhalation:	There are no known or reported effects from chronic exposure.
Skin Contact:	There are no known or reported effects from chronic exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer. The active ingredient in this product tested negative for skin sensitization in humans and laboratory animals.
Chronic Target Organ Toxicity:	There are no known or reported effects to humans from repeated exposure to this product.
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>
POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE	31512-74-0	
ZINC SULFATE	7446-19-7	

### 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: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

### 5. FIRE FIGHTING MEASURES

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Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.
<u>Flammable Properties</u>	
Flash Point:	no data available
Fire / Explosion Hazards:	Material may be ignited only if preheated to high temperatures, for example in a fire.
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

## **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:

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). After removal, flush contaminated area thoroughly with water. 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.

## **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 mist or vapor.

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."

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

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Ventilation: No exposure limits exist for the constituents of this product. Additional ventilation beyond that of general exhaust is not normally required.

### Protective Equipment for Routine Use of Product

Skin Protection : Impervious gloves

Eye Protection: Safety glasses with side-shields

Protective Clothing Type: impervious clothing

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:	liquid
Form	liquid
Color:	tan
Odor:	moderate
Molecular Weight:	None established
Specific Gravity :	1.10 - 1.15
pH :	6 - 7
Boiling Point:	no data available
Freezing Point:	no data available
Melting Point:	no data available
Density:	no data available
Bulk Density:	no data available
Vapor Pressure:	no data available
Vapor Density:	no data available
Viscosity:	no data available
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	no data available
Evaporation Rate:	no data available
Oxidizing:	not applicable
Volatiles, % by vol.:	no data available
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:	High temperatures, Avoid freezing.
Chemical Incompatibility:	Strong oxidizing agents, Anionic polymers
Hazardous Decomposition Products:	Carbon oxides
Decomposition Temperature:	no data available

## 11. TOXICOLOGICAL INFORMATION

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### Component Animal Toxicology

#### Oral LD50 value:

POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE] LD50 (60% Active Ingredient) = 1,951 mg/kg rat male  
 POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE] LD50 (60% Active Ingredient) = 2,587 mg/kg rat female  
 ZINC SULFATE LD50 > 2,949 mg/kg rat

### Component Animal Toxicology

#### Dermal LD50 value:

POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE] LD50 (60% Active Ingredient) > 2,000 mg/kg rabbit  
 ZINC SULFATE LD50 Believed to be > 2,000 mg/kg rat

### Component Animal Toxicology

#### Inhalation LC50 value:

POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE] LC50 4 h (60% Active Ingredient) = 2.9 ppm rat  
 ZINC SULFATE 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.

Skin Irritation: Not expected to cause irritation.  
Eye Irritation: Not expected to cause irritation.  
Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer. The active ingredient in this product tested negative for skin sensitization in humans and laboratory animals.

Subchronic / Chronic Toxicity:

Reproductive and Developmental Toxicity: No reproductive or developmental risk to humans is expected from exposure to this product. The active ingredient in this product has been tested in

laboratory animals and no evidence of teratogenicity or fetotoxicity was seen.

**Mutagenicity:** Not known or reported to be mutagenic. The active ingredient in this product has been tested in a battery of mutagenicity assays and was found to be non-mutagenic under the conditions of the tests.

**Carcinogenicity:** This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. The carcinogenicity of the active ingredient in this product has been evaluated through animal study and it was found not to be carcinogenic.

POLY [OXYETHYLENE  
(DIMETHYLIMINIO) ETHYLENE

A two-year rat carcinogenicity study showed a slight increase in c-cell adenomas in female rats. Studies with male rats and male and female mice did not show any evidence of carcinogenic response. This product is not considered a carcinogen

## 12. ECOLOGICAL INFORMATION

**Overview:** Very toxic to aquatic life.

### Ecological Toxicity Values for: POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE

Rainbow trout ( <i>Salmo gairdneri</i> ),	-	96 h LC50 = 0.047 mg/l
Bluegill sunfish	-	96 h LC50 = 0.21 mg/l
Fathead minnow ( <i>Pimephales promelas</i> ),	-	96 h LC50 = 0.26 mg/l
Mysid shrimp	-	96 h LC50= 13 mg/l
Daphnia magna,	-	48 h LC50= 0.37 mg/l

### Ecological Toxicity Values for: ZINC SULFATE

Rainbow trout ( <i>Oncorhynchus mykiss</i> )	-	96 h LC50 = 2.4 mg/l
Fathead minnow ( <i>Pimephales promelas</i> ),	-	(static). 96 h LC50 = 3.1 mg/l
Daphnia magna,	-	(static). 48 h LC50= 0.690 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 liquid waste, it should be disposed of in accordance with local, state and federal regulations.

### 14. TRANSPORT INFORMATION

Land (US DOT): UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE]) 9 III  
Water (IMDG): UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE]) 9 III MARINE POLLUTANT

Air (IATA): UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (POLY [OXYETHYLENE (DIMETHYLIMINIO) ETHYLENE]) 9 III

Emergency Response Guide Number: ERG # 171

Transportation Notes: Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Material is not regulated as a marine pollutant for ground, rail car, or aircraft transportation within the USA if shipped in non bulk packages per marine pollutant exception 49 CFR 171.4(c).

EMS: F-A, S-F

### 15. REGULATORY INFORMATION

**UNITED STATES:**

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.  
EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals This product is regulated under the Federal Insecticide,

(40 CFR 180): Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

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

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

Health None  
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 ZINC AND COMPOUNDS Value:

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
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7446-19-7	ZINC SULFATE
ZUSPA_RTK	

Pennsylvania: Hazardous substance list  
1990-01-01  
ZINC COMPOUNDS  
Environmental hazard, hazardous substance

**New Jersey:**

CAS #	COMPONENT NAME
7446-19-7	ZINC SULFATE
ZUSNJ_RTK	

New Jersey Right to Know Hazardous Substance List (RTK-HSL)  
1989-12-01  
ZINC compounds  
hazardous substance

**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 :  
Major References : Available upon request.

**MATERIAL 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. .