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 STRIKE OUT

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

 Supplier
 REVISION DATE:
 02/11/2016

 GLB
 SUPERCEDES:
 05/26/2015

GLB SUPERCEDES: 05/26/2015 1400 Bluegrass Lakes Parkway ,

Alpharetta, GA, 30004 MSDS Number: 000000024407

SYNONYMS:

CHEMICAL FAMILY: None

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

CHEMICAL PAMILT:

DESCRIPTION / USE
FORMULA:
None established
None established

Manufacturer
Advantis Technologies
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004

Alpharetta, GA 30004 United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance according to GHS.

GHS label elements

Not a dangerous substance according to GHS.

Other hazards

None known.

GLB STRIKE OUT

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS OR CHEMICAL NAME Triethanolamine | <u>CAS #</u> 102-71-6 | <u>% RANGE</u> 15 - 25 |
|--------------------------------------|--------------------------|---------------------------|
| Ethanolamine | 141-43-5 | 12 - 22 |
| BASIC COPPER CARBONATE | 12069-69-1 | 10 - 18 |
| Citric Acid | 77-92-9 | 0 - 7 |

SECTION 4. FIRST AID MEASURES

General Advice: Call a poison control center or doctor for treatment advice. For 24-hour

emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

Inhalation: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

Skin Contact: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin

immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Eye Contact: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then

continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: IF SWALLOWED: Call a poison control center or doctor immediately for treatment

advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give

anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or

mixture is not classified as pyrophoric., Not explosive

Flammable Properties

Fire / Explosion Hazards: Will not burn

Extinguishing Media: Carbon dioxide (CO2) Dry powder Foam

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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.

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: Vapors may be suppressed by the use of water fog. Keep people

away from and upwind of spill/leak.

Water Release: This material is soluble in water. If the product contaminates rivers

and lakes or drains inform respective authorities.

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 : 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 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 or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

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Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible., A NIOSH approved air purifying respirator with organic vapor cartridge and N95 particulate 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. Avoid contact with skin. Impervious gloves

Skin Protection: Eve Protection: Safety glasses with side-shields

Protective Clothing Type: Impervious clothing

General Protective

Measures:

Emergency eyewash should be provided in the immediate work area.

Components with workplace control parameters

| Components (CAS-No.) | Value | Control parameters | Basis (Update) |
|-------------------------------------|-------|--------------------|--------------------|
| Triethanolamine (102-71-6) | TWA | 5 mg/m3 | ACGIH (02 2014) |
| Ethanolamine (141-43-5) | TWA | 3 ppm | ACGIH (02 2014) |
| | STEL | 6 ppm | ACGIH (02 2014) |
| BASIC COPPER CARBONATE (12069-69-1) | Conc | 100 mg/m3 | NIOSH/GUIDE (2005) |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Form <** Phrase does not exist: LONZA - SX0900048460 **> Color: <** Phrase does not exist: LONZA - SX0900048460 **> <** Phrase does not exist: LONZA - SX0900048460 **> Odor:

Molecular Weight: None established

9.7 - 10.3 pH:

Boiling Point: 212 °F (100 °C)

Melting point/freezing no data available

point

Density Not applicable

Bulk Density:

no data available Vapor Pressure: no data available

Vapor Density: no data available Viscosity: no data available no data available

Solubility in Water: soluble in cold water

Partition coefficient noctanol/water:

no data available

Evaporation Rate: no data available None established Oxidizing:

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Volatiles, % by vol.: no data available

VOC Content 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.

HAP Content Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: Heat, flames and sparks.

Chemical Incompatibility: Acids, Nitrites

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Triethanolamine LD50 = 7,390 mg/kg Rat Ethanolamine LD50 = 1,700 mg/kg Rat BASIC COPPER LD50 = 1,350 mg/kg Rat

CARBONATE

Citric Acid LD50 = 3,000 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

Triethanolamine LD50 > 2,000 mg/kg Rabbit

Ethanolamine LD50 approximately 1,000 mg/kg Rabbit

LD50 1,025 mg/kg Rabbit

BASIC COPPER no data available

CARBONATE

NATE

Citric Acid LD50 Believed to be > 2,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

Triethanolamine A saturated vapor concentration for 8 hours (rats) did not produce any deaths.

BASIC COPPER no data available

CARBONATE

Citric Acid no data available

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 4,200 mg/kg Rat

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LD50 Believed to be > 2,000 mg/kg Rabbit Dermal LD50 value: no data available

Inhalation LC50

value:

Skin Irritation: Not expected to be irritating to the skin.

slight irritation Eve Irritation:

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

Triethanolamine This material tested negative for skin sensitization in

animals.

Ethanolamine This material tested negative for skin sensitization in

animals.

Acute Toxicity: May cause mild eye irritation. Ingestion may cause mild gastrointestinal

discomfort.Inhalation of mist or vapor may cause irritation to the mucous

membranes of the respiratory tract.

Subchronic / Chronic

Toxicity:

Not known or reported to cause subchronic or chronic toxicity.

Triethanolamine Animal studies suggest that chronic (repeated)

overexposure may result in damage to the liver and

kidney.

Reproductive and

Developmental Toxicity:

Triethanolamine

Not known or reported to cause reproductive or developmental toxicity.

This product has been tested and was shown not to produce any adverse effects on reproductive function or

fetal development when administered to laboratory

animals.

Ethanolamine This chemical has been tested in laboratory animals

and no evidence of teratogenicity, embryotoxicity or

fetotoxicity was seen.

Citric Acid This chemical has been tested in laboratory animals

and there was no evidence of reproductive toxicity or

teratogenicity.

Mutagenicity: Not known or reported to be mutagenic.

> Triethanolamine This chemical has been shown to be non-mutagenic

based on a battery of assays.

Ethanolamine This chemical has been tested in a battery of

mutagenicity/genotoxicity assays and the results were

negative.

This product was determined to be non-mutagenic in Citric Acid

the Ames assay. It was also shown to be negative in

the Dominant lethal assay.

This product is not known or reported to be carcinogenic by any reference Carcinogenicity:

source including IARC, OSHA, NTP or EPA.

Triethanolamine The International Agency for Research on Cancer

GLB STRIKE OUT

REVISION DATE: 02/11/2016 Page 6 of 10 (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as

to Its Carcinogenicity to Humans.

Ethanolamine This product is not known or reported to be carcinogenic

by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown

not to cause cancer in laboratory animals.

Citric Acid The carcinogenicity has been evaluated through animal

study and it was found not to be carcinogenic.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: Triethanolamine

Pimephales promelas (fathead - (measured, flow-through) 96 h LC50 = 11,800 mg/l

minnow)

Daphnia magna, - (nominal, static). 24 h EC50= 1,850 mg/l mp (Crangon - (nominal, renewal). 48 h LC50> 100 mg/l

Common shrimp (Crangon crangon)

Green algae (Scenedesmus

s - (nominal, static). 48 h EC50 = 750 mg/l

subspicatus)

Ecological Toxicity Values for: Ethanolamine

Rainbow trout (Oncorhynchus - (nominal, static). 96 h LC50 = 150 mg/l

mykiss)

Mosquito fish - (nominal, static). 96 h LC50 = 337.5 mg/l Blueqill - (nominal, static). 96 h LC50 = 329.16 mg/l

Pimephales promelas (fathead - (measured, flow-through) 96 h LC50 = 2,070 mg/l

minnow)

Goldfish - (measured, static) 96 h LC50 = 170 mg/l Daphnia magna (Water flea) - (nominal, static). 24 h LC50 = 140 mg/l

Crangon crangon (shrimp) - (nominal, static). 24 if EC50= 140 mg/l

Brine shrimp - 48 h LC50= 7,100 mg/l Daphnia magna (Water flea) - 48 h EC50= 65 mg/l

Ecological Toxicity Values for: Citric Acid

Lepomis macrochirus (Bluegill - (static). 96 h LC50 = 1,516 mg/l

sunfish)

Daphnia magna (Water flea) - 72 h EC50approximately 120 mg/l

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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 liquid 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

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : CAUTION!

Hazard statements : This pesticide is toxic to fish.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ | Calculated |
|------------|---------|--------------|------------|
| | | (lbs) | product RQ |
| | | | (lbs) |

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^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

copper carbonate 12069-69-1

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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. 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 contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

| | copper carbonate | 12069-69-1 | 13.49 % |
|-----------------------------|---------------------------|------------|---------|
| US State Regulations | | | |
| Massachusetts Right To Know | | | |
| | 2,2',2"-Nitrilotriethanol | 102-71-6 | |
| | 2-Aminoethanol | 141-43-5 | |
| Pennsylvania Right To Know | | | |
| | 2,2',2"-Nitrilotriethanol | 102-71-6 | |

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2-Aminoethanol 141-43-5 copper carbonate 12069-69-1

New Jersey Right To Know

 2,2',2"-Nitrilotriethanol
 102-71-6

 2-Aminoethanol
 141-43-5

 copper carbonate
 12069-69-1

 Citric acid
 77-92-9

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer.

2,2'-Iminodiethanol 111-42-2

The components of this product are reported in the following inventories:

TSCA : This is an EPA registered pesticide.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 2, 4, 8, 11

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.

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