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 FRESH

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

 Supplier
 REVISION DATE:
 05/27/2015

 GLB
 SUPERCEDES:
 06/01/2009

1400 Bluegrass Lakes Parkway ,

Alpharetta, GA, 30004
USA

MSDS Number: 000000024440
SYNONYMS: None

Telephone: +17705215999 CHEMICAL FAMILY: None

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

DESCRIPTION / USE None established None established

Manufacturer

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Specific target organ toxicity - :

single exposure

Category 3 (Respiratory system)

GHS Label element

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 1 of 13

Hazard pictograms :





Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**

P234 Keep only in original container.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a

resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 2 of 13

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME HYDROCHLORIC ACID	<u>CAS #</u> 7647-01-0	<u>% RANGE</u> >= 5 - < 10
SULFURIC ACID	7664-93-9	>= 5 - < 10
HYDROCHLORIC ACID	7647-01-0	3 - 13
SULFURIC ACID	7664-93-9	3 - 13
Citric Acid	77-92-9	0 - 8
Polyoxyethylene octyl phenyl ether	9002-93-1	0 - 7
Alcohols, C12-18, ethoxylated and propoxylated	69227-21-0	0 - 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.

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

SECTION 5. FIREFIGHTING MEASURES

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 3 of 13

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. Reacts with most metals to form

flammable hydrogen gas.

Extinguishing Media: Not Applicable. - Choose extinguishing media suitable for

surrounding materials.

Fire Fighting Instructions: 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:

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

away from and upwind of spill/leak.

Water Release: The product should not be allowed to enter drains, water courses or

the soil.

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).Do not contaminate ponds, waterways or ditches with

chemical or used container.

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 nonessential 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.

Upon contact with skin or eyes, wash off with water. Avoid breathing

mist or vapor.

Storage: Store in a cool dry ventilated location, away from sources of ignition

or other incompatible conditions and chemicals. Keep container(s)

closed.

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 4 of 13

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

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

possible., A NIOSH approved full-face air purifying respirator with acid gas cartridge and N-95 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: Wear impervious gloves, boots and apron to avoid skin contact. A full

impervious suit is recommended if exposure is possible to a large portion of

the body.

Eye Protection: Use chemical goggles and a faceshield. Protective Clothing Type: Neoprene, Butyl rubber, Natural rubber

General Protective An eye wash and safety shower should be provided in the immediate work

Measures: area.

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
HYDROCHLORIC ACID (7647-01-0)		2 ppm	ACGIH (02 2014)
SULFURIC ACID (7664-93-9)	TWA	0.2 mg/m3	ACGIH (02 2014)
HYDROCHLORIC ACID (7647-01-0)		2 ppm	ACGIH (02 2014)
SULFURIC ACID (7664-93-9)	TWA	0.2 mg/m3	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form No data.
Color: No data.
Odor: No data.

Molecular Weight: None established

pH: 0.0 - 2.0

()

No data

Boiling Point: 212 °F (100 °C)

Melting point/freezing

point

Bulk Density: (

no data available

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 5 of 13

Vapor Pressure: no data available

Vapor Density: > 1

no data available Viscosity: Solubility in Water: soluble in cold water

Partition coefficient n-

octanol/water:

No data

No data.

Evaporation Rate: Oxidizing: None established 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

Chemical Incompatibility: Strong oxidizing agents, Bases, Amines, Metals, alkalis Hazardous Decomposition Products: Hydrogen chloride, Oxides of nitrogen, Sulfur oxides, Carbon

monoxide. Carbon dioxide

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

HYDROCHLORIC ACID LD50 900 mg/kg Rabbit SULFURIC ACID LD50 = 2,140 mg/kg Rat HYDROCHLORIC ACID LD50 900 mg/kg Rabbit SULFURIC ACID LD50 = 2,140 mg/kgRat LD50 = 3,000 mg/kgCitric Acid Rat Polyoxyethylene octyl LD50 = 4,500 mg/kgRat

phenyl ether

Component Animal Toxicology

Dermal LD50 value:

HYDROCHLORIC ACID No data

SULFURIC ACID LD50 > 2,000 mg/kgRabbit

HYDROCHLORIC ACID No data

SULFURIC ACID LD50 > 2,000 mg/kg Rabbit

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

Polyoxyethylene octyl

phenyl ether

no data available

GLB FILTER FRESH REVISION DATE: 05/27/2015 Page 6 of 13

Component Animal Toxicology

Inhalation LC50 value:

HYDROCHLORIC ACID Inhalation LC50 1 h 3124 ppm Rat

SULFURIC ACID LC50 1 h (aerosol) = 1.02 mg/l Rat

HYDROCHLORIC ACID Inhalation LC50 1 h 3124 ppm Rat

SULFURIC ACID LC50 1 h (aerosol) = 1.02 mg/l Rat

Citric Acid no data available

Polyoxyethylene octyl

phenyl ether

no data available

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 5,900 mg/kg

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

Inhalation LC50

value:

no data available

Skin Irritation: This material is expected to be corrosive. Eve Irritation: This material is expected to be corrosive.

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.

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.

SULFURIC ACID This product did not cause reproductive or

developmental effects in a study with laboratory

animals.

This product did not cause reproductive or developmental effects in a study with laboratory

animals.

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.

> HYDROCHLORIC ACID This chemical has been shown to be non-mutagenic

> > based on a battery of assays.

This product has been tested for mutagenicity. Tests SULFURIC ACID

revealed both positive and negative results. Based on

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 7 of 13

the weight of evidence, we judge this product NOT to be

a mutagenic hazard.

HYDROCHLORIC ACID This chemical has been shown to be non-mutagenic

based on a battery of assays.

SULFURIC ACID This product has been tested for mutagenicity. Tests

revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be

a mutagenic hazard.

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.

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

source including IARC, OSHA, NTP or EPA. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic (Group I carcinogen). The following data is available for

sulfuric acid:

HYDROCHLORIC ACID The International Agency for Research on Cancer

(IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as

to Its Carcinogenicity to Humans.

SULFURIC ACID This chemical is not known or reported to be

carcinogenic by any reference source including IARC,

OSHA, NTP, or EPA. IARC evaluated several

epidemiology studies where workers from a variety of industries had been exposed to a mixture of strong inorganic acid mists. IARC has concluded that there is sufficient evidence that occupational exposure to a mixture of strong inorganic-acid mists containing sulfuric acid is carcinogenic to humans (Group I carcinogen). Because cancer has not been observed in animals when they are exposed only to sulfuric acid mists,

be carcinogenic to humans.

HYDROCHLORIC ACID The International Agency for Research on Cancer

(IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as

exposure to sulfuric acid by itself was not determined to

to Its Carcinogenicity to Humans.

SULFURIC ACID This chemical is not known or reported to be

carcinogenic by any reference source including IARC,

OSHA, NTP, or EPA. IARC evaluated several

epidemiology studies where workers from a variety of industries had been exposed to a mixture of strong inorganic acid mists. IARC has concluded that there is sufficient evidence that occupational exposure to a mixture of strong inorganic-acid mists containing sulfuric acid is carcinogenic to humans (Group I carcinogen). Because cancer has not been observed in animals when they are exposed only to sulfuric acid mists, exposure to sulfuric acid by itself was not determined to

be carcinogenic to humans.

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 8 of 13

Citric Acid

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

SECTION 12. ECOLOGICAL INFORMATION

Overview: Because of the low pH of this product, it would be expected to produce

significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.,

No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: HYDROCHLORIC ACID

Mosquito fish - 96 h LC50 = 282 mg/l

Bluegill - 48 h LC50 = 3.6 mg/lPimephales promelas (fathead - 96 h LC50 = 21.9 mg/l

minnow)

Common shrimp (Crangon - (nominal, renewal). 48 h LC50= 260 mg/l

crangon)

Daphnia magna, - 48 h EC50= 0.492 mg/l

Ecological Toxicity Values for: SULFURIC ACID

Mosquito fish - (nominal, static). 96 h LC50 42 mg/l

Bluegill sunfish - 96 h LC50 10.5 mg/l

Common shrimp (Crangon - (nominal, renewal). 48 h LC50 70-80 mg/l

crangon)

Daphnia magna, - 24 h EC50 29 mg/l

Ecological Toxicity Values for: HYDROCHLORIC ACID

Mosquito fish - 96 h LC50 = 282 mg/l - 48 h LC50 = 3.6 mg/l

Bluegill - 48 h LC50 = 3.6 mg/lPimephales promelas (fathead - 96 h LC50 = 21.9 mg/l

minnow)

Common shrimp (Crangon - (nominal, renewal). 48 h LC50= 260 mg/l

crangon)

Daphnia magna, - 48 h EC50= 0.492 mg/l

Ecological Toxicity Values for: SULFURIC ACID

Mosquito fish - (nominal, static). 96 h LC50 42 mg/l

Bluegill sunfish - 96 h LC50 10.5 mg/l

Common shrimp (Crangon - (nominal, renewal). 48 h LC50 70-80 mg/l

crangon)

Daphnia magna, - 24 h EC50 29 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

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 9 of 13

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 meets the criteria of a hazardous

waste as defined under 40 CFR 261 and would have the following

EPA hazardous waste number: D002.

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 : 1760

Description of the goods : Corrosive liquids, n.o.s.

: (Sulphuric acid, hydrochloric acid)

Class : 8
Packing group : II
Labels : 8
Emergency Response : 154

Guidebook Number

TDG

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S.

(Sulphuric acid, hydrochloric acid)

Class : 8 Packing group : II Labels : 8

IATA

UN number : 1760

Description of the goods : Corrosive liquid, n.o.s.

(Sulphuric acid, hydrochloric acid)

Class : 8
Packing group : II
Labels : 8

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 10 of 13

Packing instruction (cargo

: 855

aircraft)

Packing instruction : 851

(passenger aircraft)

Packing instruction : Y840

(passenger aircraft)

IMDG-CODE

: 1760 UN number

Description of the goods : CORROSIVE LIQUID, N.O.S.

(Sulphuric acid, hydrochloric acid)

Class : 8 : II Packing group 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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulphuric acid	7664-93-9	1000	

SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

> hydrochloric acid 7647-01-0 Sulphuric acid 7664-93-9

SARA 313

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

> hydrochloric acid 7647-01-0 Sulphuric acid 7664-93-9

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

> 7647-01-0 8.917 % hydrochloric acid

GLB FILTER FRESH

REVISION DATE: 05/27/2015

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

hydrochloric acid 7647-01-0 8.917 % Sulphuric acid 7664-93-9 8.742 %

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

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

hydrochloric acid	7647-01-0	8.917 %
Sulphuric acid	7664-93-9	8.742 %

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

hydrochloric acid	7647-01-0	8.917 %
Sulphuric acid	7664-93-9	8.742 %

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

hydrochloric acid	7647-01-0
Sulphuric acid	7664-93-9

Pennsylvania Right To Know

hydrochloric acid	7647-01-0
Sulphuric acid	7664-93-9
Citric acid	77-92-9

New Jersey Right To Know

hydrochloric acid	7647-01-0
Sulphuric acid	7664-93-9
Citric acid	77-92-9
Polyoxyethylene octyl	9002-93-1

phenyl ether

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer.

Sulphuric acid 7664-93-9

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 12 of 13

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.

: Nonionic Surfactant

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.

GLB FILTER FRESH

REVISION DATE: 05/27/2015 Page 13 of 13