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 TLC

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

 Supplier
 REVISION DATE:
 02/24/2016

 GLB
 SUPERCEDES:
 05/26/2015

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

Alpharetta, GA, 30004 MSDS Number: 000000024480

SYNONYMS:

CHEMICAL FAMILY: None

Telephone: +17705215999

DESCRIPTION / USE Water treatment chemical

Telefax: +17705215959

Web: www.poolspacare.com

DESCRIPTION / USE Water treatment chemical 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 - : Category 3 (Respiratory system)

single exposure

GHS label elements

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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/doctor.

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/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME SULFURIC ACID	<u>CAS #</u> 7664-93-9	<u>% RANGE</u> 10 - 16
HYDROCHLORIC ACID	7647-01-0	4 - 10
PHOSPHORIC ACID	7664-38-2	5 - 11
Polyoxyethylene octyl phenyl ether	9002-93-1	1 - 3

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

Fire / Explosion Hazards: Material will not ignite or burn. Reacts with most metals to form

flammable hydrogen gas.

Extinguishing Media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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. Use water spray to

cool unopened containers.

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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: Keep people away from and upwind of spill/leak.

Water Release: If the product contaminates rivers and lakes or drains inform

respective authorities.soluble

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: Prevent further leakage or spillage if safe to do so. Use personal

protective equipment as required. Evacuate personnel to safe areas.

Remove all sources of ignition.

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: Refe

Empty Container Warning:

Refer to Section 10, "Incompatible Materials."

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 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: 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: Neoprene, butyl-rubber, Natural Rubber

General Protective Ensure that eyewash stations and safety showers are close to the

Measures: workstation location.

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
SULFURIC ACID (7664-93-9)	TWA	0.2 mg/m3	ACGIH (02 2014)
HYDROCHLORIC ACID (7647-01-0)		2 ppm	ACGIH (02 2014)
PHOSPHORIC ACID (7664-38-2)	TWA	1 mg/m3	ACGIH (02 2014)
	STEL	3 mg/m3	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form liquid
Color: amber
Odor: mild

Molecular Weight: None established

pH: 0.0 - 2.0

()

Boiling Point: 212 °F (100 °C)

Melting point/freezing no data available

point

Density no data available

Bulk Density: ()

no data available

Vapor Pressure: no data available

Vapor Density: > 1

Viscosity: no data available
Solubility in Water: soluble in cold water
Partition coefficient n- no data available

octanol/water:

Evaporation Rate: no data available

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Oxidizing: None established Volatiles, % by vol.: no data available

This product does not contain any chemicals listed under the U.S. **VOC Content**

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 no data available

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: Heat, flames and sparks.

Chemical Incompatibility: Strong oxidizing agents, Bases, Amines, Metals, Alkalis

Hazardous Decomposition Products: Hydrogen chloride

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

LD50 = 2,140 mg/kgSULFURIC ACID Rat HYDROCHLORIC ACID 900 mg/kg Rabbit LD50 PHOSPHORIC ACID LD50 = 1,530 mg/kgRat Polyoxyethylene octyl LD50 = 4,500 mg/kgRat

phenyl ether

Component Animal Toxicology

Dermal LD50 value:

SULFURIC ACID LD50 > 2,000 mg/kgRabbit

HYDROCHLORIC ACID no data available

PHOSPHORIC ACID LD50 = 2,740 mg/kgRabbit

Polyoxyethylene octyl

phenyl ether

no data available

Component Animal Toxicology

Inhalation LC50 value:

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

HYDROCHLORIC ACID Inhalation LC50 1 h 3124 ppm Rat

PHOSPHORIC ACID Inhalation LC50 1 h > 0.850 mg/l Rat

Polyoxyethylene octyl

phenyl ether

no data available

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Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 4,800 mg/kg Rat

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

Inhalation LC50

no data available

value:

Skin Irritation: Corrosive to skin Eye Irritation: Corrosive to eyes

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

There are no known or reported effects from repeated exposure except those

Toxicity:

secondary to burns.

Reproductive and

Not known or reported to cause reproductive or developmental toxicity.

Developmental Toxicity:

SULFURIC ACID This product did not cause reproductive or

developmental effects in a study with laboratory

animals.

PHOSPHORIC ACID This material has been tested and was found not to

cause reproductive toxicity in laboratory animals.

Mutagenicity: Not known or reported to be mutagenic.

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.

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

based on a battery of assays.

PHOSPHORIC ACID 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. 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:

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.

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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.

PHOSPHORIC ACID This chemical is not known or reported to be

carcinogenic by any reference source including IARC,

OSHA, NTP, or EPA.

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: 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

Bluegill - 48 h LC50 = 3.6 mg/l Pimephales 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: PHOSPHORIC ACID

Mosquito fish - 96 h LC50 138 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.

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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.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
Packing instruction (cargo : 855

aircraft)

Packing instruction : 851

(passenger aircraft)

Packing instruction : Y840

(passenger aircraft)

IMDG-CODE

UN number : 1760

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

(Sulphuric acid)

Class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

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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	*

^{*:} 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

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

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

SARA 313

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

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

Clean Air Act

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

hydrochloric acid 7647-01-0

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):

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

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

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

Sulphuric acid	7664-93-9
hydrochloric acid	7647-01-0
phosphoric acid	7664-38-2

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

Sulphuric acid	7664-93-9
hydrochloric acid	7647-01-0
phosphoric acid	7664-38-2

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

Pennsylvania Right To Know

New Jersey Right To Know

Sulphuri phospho hydroch	7664-93- 7664-38- 7647-01-	2
Sulphuri phospho hydroch	7664-93- 7664-38- 7647-01-	2
Sulphuri phospho hydroch	7664-93- 7664-38- 7647-01-	2

Sulphune acid	7004-93-9
phosphoric acid	7664-38-2
hydrochloric acid	7647-01-0
Polyoxyethylene octyl	9002-93-1
phonyl other	

phenyl ether

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), TCSI (Taiwan), TSCA (USA)

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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.

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