

## SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

### GLB TLC

Version 2.0

Revision Date 2020.03.12

Print Date 2021.07.29

#### SECTION 1. IDENTIFICATION

Product name : GLB TLC

##### Manufacturer or supplier's details

Company : Innovative Water Care, LLC  
1400 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004

Telephone : 1-800-511-6737 (Outside the USA: 1-423-780-2347)  
E-mail address : sds@sigurawater.com  
Emergency telephone number : 1-800-654-6911 (Outside the USA: 1-423-780-2970)

##### Recommended use of the chemical and restrictions on use

Recommended use : Water treatment chemical

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#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

Corrosive to metals : Category 1  
Acute toxicity : Category 4  
Acute toxicity (Dermal) : Category 4  
Skin corrosion : Category 1A  
Serious eye damage : Category 1  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

##### GHS label elements

Hazard pictograms : The image shows two GHS hazard pictograms side-by-side. The first is a red diamond with a black border containing a black silhouette of a hand being corroded by a liquid dripping from a test tube. The second is a red diamond with a black border containing a black exclamation mark.

Signal word : Danger

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- Hazard statements : H290 May be corrosive to metals.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.
- Precautionary statements : **Prevention:**  
P234 Keep only in original container.  
P260 Do not breathe mist or vapours.  
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/ 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.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.  
**Storage:**  
P405 Store locked up.  
P406 Store in corrosive resistant 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

Chemical nature : Mixture

### Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Sulphuric acid	7664-93-9	10 - 15
Orthophosphoric acid	7664-38-2	5 - 10
Hydrochloric acid (in water)	7647-01-0	5 - 10
Triton X-100	9002-93-1	1 - 2.5

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## SECTION 4. FIRST AID MEASURES

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If inhaled	:	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.
In case of 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.
In case of eye contact	:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
If swallowed	:	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.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Probable mucosal damage may contraindicate the use of gastric lavage.

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## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during firefighting	:	Material will not ignite or burn. Reacts with most metals to form flammable hydrogen gas.
Further information	:	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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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	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. 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.
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- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Do not flush into surface water or sanitary sewer system.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe 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.
- Conditions for safe storage : Store in a cool, dry and well ventilated place. Isolate from incompatible materials.  
Do not freeze.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sulphuric acid	7664-93-9	(Thoracic fraction.)		ACGIH
		TWA (Thoracic fraction.)	0.2 mg/m <sup>3</sup>	ACGIH
		REL	1 mg/m <sup>3</sup>	NIOSH/GUIDE
Orthophosphoric acid	7664-38-2	TWA	1 mg/m <sup>3</sup>	ACGIH
		STEL	3 mg/m <sup>3</sup>	ACGIH
		REL	1 mg/m <sup>3</sup>	NIOSH/GUIDE
		STEL	3 mg/m <sup>3</sup>	NIOSH/GUIDE
Hydrochloric acid (in water)	7647-01-0		2 ppm	ACGIH
		Ceil_Time	5 ppm 7 mg/m <sup>3</sup>	NIOSH/GUIDE

- Engineering measures** : 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.

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### Personal protective equipment

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.
Hand protection	
Remarks	: 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
Skin and body protection	: Neoprene butyl-rubber Natural Rubber
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: amber
Odour	: mild
Odour Threshold	: no data available
pH	: 0.0 - 2.0
Melting point/freezing point	: no data available
Boiling point/boiling range	: 212 °F / 100 °C
Flash point	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: Product is not known to be flammable, combustible, pyrophoric or explosive.

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Flammability (liquids)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	> 1
Relative density	:	1.1 - 1.2 (68 °F / 20 °C)
Density	:	no data available
Bulk density	:	no data available
Water solubility	:	soluble in cold water
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available

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## SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Stable under normal conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Bases Amines Metals Alkalis
Hazardous decomposition products	:	Hydrogen chloride

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure :  
sure

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Eyes  
Skin  
Ingestion  
Inhalation

### Acute toxicity

Acute oral toxicity : LD50 (Rat): Believed to be approximately 4,800 mg/kg

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rabbit): Believed to be > 2,000 mg/kg

Acute toxicity (other routes of administration) :  
Remarks: This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

### Skin corrosion/irritation

Result: Corrosive to skin

### Serious eye damage/eye irritation

Result: Corrosive to eyes

### Respiratory or skin sensitisation

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

### Carcinogenicity

Remarks: The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans (group 1).

<b>IARC</b>	Group 1: Carcinogenic to humans Sulphuric acid	7664-93-9
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
<b>NTP</b>	Known to be human carcinogen Sulphuric acid	7664-93-9
<b>ACGIH</b>	Suspected human carcinogen Sulphuric acid	7664-93-9

### Repeated dose toxicity

Remarks: There are no known or reported effects from repeated exposure except those secondary to burns.

### Further information

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Remarks: no data available

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

no data available

#### Persistence and degradability

no data available

#### Bioaccumulative potential

#### Components:

#### Sulphuric acid:

Partition coefficient: n-octanol/water : Remarks: Not applicable

#### Triton X-100:

Partition coefficient: n-octanol/water : log Pow: 2.7

#### Mobility in soil

no data available

#### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : 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:

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : 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.

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### SECTION 14. TRANSPORT INFORMATION

#### DOT

**UN number** : 3264  
**Proper shipping name** : Corrosive liquid, acidic, inorganic, n.o.s.  
(Sulphuric acid, hydrochloric acid)  
**Transport hazard class** : 8  
**Packing group** : II  
Labels : 8  
Emergency Response Guidebook  
Number : 154  
**Environmental hazards** : no

#### TDG

**UN number** : 3264  
**Proper shipping name** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Sulphuric acid, hydrochloric acid)  
**Transport hazard class** : 8  
**Packing group** : II  
Labels : 8  
**Environmental hazards** : no

#### IATA

**UN number** : 3264  
**Proper shipping name** : Corrosive liquid, acidic, inorganic, n.o.s.  
(Sulphuric acid, hydrochloric acid)  
**Transport hazard class** : 8  
**Packing group** : II  
Labels : 8  
**Environmental hazards** : no

#### IMDG

**UN number** : 3264  
**Proper shipping name** : Corrosive liquid, acidic, inorganic, n.o.s.  
(Sulphuric acid, hydrochloric acid)  
**Transport hazard class** : 8  
**Packing group** : II  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
**Environmental hazards** : Marine pollutant: no

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### ADR

**UN number** : 3264  
**Proper shipping name** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
 (Sulphuric acid, hydrochloric acid)  
**Transport hazard class** : 8  
**Packing group** : II  
 Classification Code : C1  
 Hazard Identification Number : 80  
 Labels : 8  
**Environmental hazards** : no

### RID

**UN number** : 3264  
**Proper shipping name** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
 (Sulphuric acid, hydrochloric acid)  
**Transport hazard class** : 8  
**Packing group** : II  
 Classification Code : C1  
 Hazard Identification Number : 80  
 Labels : 8  
**Environmental hazards** : no

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

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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	7168

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulphuric acid	7664-93-9	1000	7168

#### SARA 311/312 Hazards



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See above: SECTION 2. Hazard Identification-GHS Classification

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Concentration
Sulphuric acid	7664-93-9	10 - 20 %

### SARA 313

Components	CAS-No.	Concentration
Sulphuric acid	7664-93-9	10 - 20 %
Hydrochloric acid (in water)	7647-01-0	5 - 10 %

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Components	CAS-No.	Concentration
Hydrochloric acid (in water)	7647-01-0	5 - 10 %

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):

Components	CAS-No.	Concentration
Sulphuric acid	7664-93-9	10 - 20 %
Hydrochloric acid (in water)	7647-01-0	5 - 10 %

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).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

### Clean Water Act

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

Components	CAS-No.	Component RQ (lbs)
Sulphuric acid	7664-93-9	1000
Orthophosphoric acid	7664-38-2	5000
Hydrochloric acid (in water)	7647-01-0	5000

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

Components	CAS-No.	Concentration
Sulphuric acid	7664-93-9	10 - 20 %
Orthophosphoric acid	7664-38-2	5 - 10 %
Hydrochloric acid (in water)	7647-01-0	5 - 10 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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### US State Regulations

#### Massachusetts Right To Know

Components	CAS-No.
Sulphuric acid	7664-93-9
Orthophosphoric acid	7664-38-2
Hydrochloric acid (in water)	7647-01-0

#### Pennsylvania Right To Know

Components	CAS-No.
Sulphuric acid	7664-93-9
Orthophosphoric acid	7664-38-2
Hydrochloric acid (in water)	7647-01-0

#### New Jersey Right To Know

Components	CAS-No.
Sulphuric acid	7664-93-9
Orthophosphoric acid	7664-38-2
Hydrochloric acid (in water)	7647-01-0
Triton X-100	9002-93-1

#### 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.

#### Canadian lists

#### NPRI

Components	CAS-No.
Sulphuric acid	7664-93-9
Hydrochloric acid (in water)	7647-01-0
Triton X-100	9002-93-1

#### 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.

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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : US. ACGIH Threshold Limit Values  
 NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards, as amended

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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

First formulated version in SAP.

Revision Date : 2020.03.12

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date format : yyyy/mm/dd

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