

# Sulfanillic Acid Solution

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).  
Date of Issue: 03/23/2022 Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Sulfanillic Acid Solution

**Product Code:** SU2272SS

#### 1.2. Intended Use of the Product

**Use Of The Substance/Mixture:** No use is specified.

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331 USA

Toll-Free: (866)632-1291

<https://www.aquaphoenixsci.com/>

[tech@aquaphoenixsci.com](mailto:tech@aquaphoenixsci.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : ChemTel LLC

(800)255-3924 (North America)

+1 (813)248-0585 (International)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US/CA Classification

Met. Corr. 1 H290

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)



##### Signal Word (GHS-US/CA)

: Warning

##### Hazard Statements (GHS-US/CA)

: H290 - May be corrosive to metals.

##### Precautionary Statements (GHS-US/CA)

: P234 - Keep only in original container.

P390 - Absorb spillage to prevent material-damage.

P406 - Store in corrosive resistant container with a resistant inner liner.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Water	AQUA / water	(CAS-No.) 7732-18-5	94	Not classified
Phosphoric acid	Orthophosphoric acid / Phosphoric acid solution / Phosphoric acid, solution / Phosphoric acid, liquid / Hydrophosphoric acid / ortho-Phosphoric acid / o-Phosphoric acid	(CAS-No.) 7664-38-2	5	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Benzenesulfonic acid, 4-amino-	4-Aminobenzenesulfonic acid / p-Aminobenzenesulfonic acid / p-Aminophenylsulfonic acid / Aniline-4-sulfonic acid / Aniline-p-sulfonic acid / Aniline-p-sulphonic acid / Sulfanilic acid / Sulphanilic acid / Benzenesulphonic acid, 4-amino- / 4-Aminobenzenesulphonic acid / p-Anilinesulfonic acid / p-Aminobenzenesulphonic acid	(CAS-No.) 121-57-3	1	Eye Irrit. 2A, H319

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** May cause slight irritation to eyes.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Does not burn. Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** None known.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Contact with metallic substances may release flammable hydrogen gas.

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**Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. Adding an acid to a base or base to an acid may cause a violent reaction.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Oxides of carbon, nitrogen, phosphorous and sulfur.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Liquid spill: neutralize with powdered limestone or sodium bicarbonate. Absorb spillage to prevent material damage. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May be corrosive to metals.

**Precautions for Safe Handling:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in corrosive resistant container with a resistant inner liner. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep container closed when not in use.

**Incompatible Materials:** Metals. Strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Phosphoric acid (7664-38-2)		
USA ACGIH	ACGIH OEL TWA	1 mg/m <sup>3</sup>
USA ACGIH	ACGIH OEL STEL	3 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [1]	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA)	1 mg/m <sup>3</sup>

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USA NIOSH	NIOSH REL (STEL)	3 mg/m <sup>3</sup>
USA IDLH	IDLH	1000 mg/m <sup>3</sup>
Alberta	OEL STEL	3 mg/m <sup>3</sup>
Alberta	OEL TWA	1 mg/m <sup>3</sup>
British Columbia	OEL STEL	3 mg/m <sup>3</sup>
British Columbia	OEL TWA	1 mg/m <sup>3</sup>
Manitoba	OEL STEL	3 mg/m <sup>3</sup>
Manitoba	OEL TWA	1 mg/m <sup>3</sup>
New Brunswick	OEL STEL	3 mg/m <sup>3</sup>
New Brunswick	OEL TWA	1 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL STEL	3 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA	1 mg/m <sup>3</sup>
Nova Scotia	OEL STEL	3 mg/m <sup>3</sup>
Nova Scotia	OEL TWA	1 mg/m <sup>3</sup>
Nunavut	OEL STEL	3 mg/m <sup>3</sup>
Nunavut	OEL TWA	1 mg/m <sup>3</sup>
Northwest Territories	OEL STEL	3 mg/m <sup>3</sup>
Northwest Territories	OEL TWA	1 mg/m <sup>3</sup>
Ontario	OEL STEL	3 mg/m <sup>3</sup>
Ontario	OEL TWA	1 mg/m <sup>3</sup>
Prince Edward Island	OEL STEL	3 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA	1 mg/m <sup>3</sup>
Québec	VECD (OEL STEL)	3 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA)	1 mg/m <sup>3</sup>
Saskatchewan	OEL STEL	3 mg/m <sup>3</sup>
Saskatchewan	OEL TWA	1 mg/m <sup>3</sup>
Yukon	OEL STEL	3 mg/m <sup>3</sup>
Yukon	OEL TWA	1 mg/m <sup>3</sup>

## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available

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<b>Melting Point</b>	: No data available
<b>Freezing Point</b>	: No data available
<b>Boiling Point</b>	: No data available
<b>Flash Point</b>	: No data available
<b>Auto-ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: Not applicable
<b>Lower Flammable Limit</b>	: No data available
<b>Upper Flammable Limit</b>	: No data available
<b>Vapor Pressure</b>	: No data available
<b>Relative Vapor Density at 20°C</b>	: No data available
<b>Relative Density</b>	: No data available
<b>Specific Gravity</b>	: No data available
<b>Solubility</b>	: No data available
<b>Partition Coefficient: N-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. Adding an acid to a base or base to an acid may cause a violent reaction.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials:

Metals. Strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Oxides of carbon, nitrogen, phosphorous and sulfur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:**

No additional information available

**Skin Corrosion/Irritation:** Not classified.

**Eye Damage/Irritation:** Not classified.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

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<b>Phosphoric acid (7664-38-2)</b>	
LD50 Oral Rat	2600 mg/kg (1.7 ml/kg of 75% solution)
LD50 Dermal Rabbit	2740 mg/kg
LC50 Inhalation Rat	> 850 mg/m <sup>3</sup> (Exposure time: 1 h)
<b>Benzenesulfonic acid, 4-amino- (121-57-3)</b>	
LD50 Oral Rat	12300 mg/kg
LD50 Dermal Rat	> 2000 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

<b>Phosphoric acid (7664-38-2)</b>	
LC50 Fish 1	75.1 mg/l
<b>Benzenesulfonic acid, 4-amino- (121-57-3)</b>	
LC50 Fish 1	77.8 – 129.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

### 12.2. Persistence and Degradability

<b>Sulfanillic Acid Solution</b>	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

<b>Sulfanillic Acid Solution</b>	
Bioaccumulative Potential	Not established.
<b>Benzenesulfonic acid, 4-amino- (121-57-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.9

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Treatment Methods:** Neutralize collected waste before discharge.

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Proper Shipping Name : PHOSPHORIC ACID SOLUTION  
Hazard Class : 8  
Identification Number : UN1805  
Label Codes : 8  
Packing Group : III  
ERG Number : 154



**49CFR173.154(d) - Materials corrosive to aluminum or steel only.** Except for a hazardous substance, a hazardous waste, or a marine pollutant, a material classed as a Class 8, Packing Group III, material solely because of its corrosive effect -

- (1) On aluminum is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material; or
- (2) On steel is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a bulk packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material.

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### 14.2. In Accordance with IMDG

Proper Shipping Name : PHOSPHORIC ACID SOLUTION  
Hazard Class : 8  
Identification Number : UN1805  
Label Codes : 8  
Packing Group : III  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B



### 14.3. In Accordance with IATA

Proper Shipping Name : PHOSPHORIC ACID, SOLUTION  
Hazard Class : 8  
Identification Number : UN1805  
Label Codes : 8  
Packing Group : III  
ERG Code (IATA) : 8L



### 14.4. In Accordance with TDG

Proper Shipping Name : PHOSPHORIC ACID, SOLUTION  
Hazard Class : 8  
Identification Number : UN1805  
Label Codes : 8  
Packing Group : III



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Sulfanillic Acid Solution</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Physical hazard - Corrosive to metals
<b>Phosphoric acid (7664-38-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>CERCLA RQ</b>	5000 lb
<b>Benzenesulfonic acid, 4-amino- (121-57-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

### 15.2. US State Regulations

<b>Phosphoric acid (7664-38-2)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### 15.3. Canadian Regulations

<b>Phosphoric acid (7664-38-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Benzenesulfonic acid, 4-amino- (121-57-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Water (7732-18-5)</b>
Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 03/23/2022

Revision

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### Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H402	Harmful to aquatic life

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

NA GHS SDS 2015 (Can, US)