

SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product Name Sulfuric Acid, 0.5N

Other means of identification

Manufacturer number: SA1590-A

Distributor Address

Best Sanitizers, Inc.
PO Box 1360
Penn Valley, CA 95946

Emergency telephone number

Emergency Phone Numbers For Transportation Emergencies, call
Aquaphoenix Scientific: 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Label Elements

Not Regulated

There are no other hazards not otherwise classified that have been identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight % | Trade Secret |
|----------------|-----------|----------|--------------|
| Sulfuric Acid | 7664-93-9 | < 5 | - |
| Purified Water | 7732-18-5 | > 95 | - |

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Hold eye(s) open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Get medical advice/attention.

Skin Contact Wash affected area with warm water. Seek medical attention if skin irritation is experienced..

Inhalation Move to fresh air. Seek immediate medical attention if discomfort or irritation persists.

Ingestion

Rinse mouth thoroughly. Do NOT induce vomiting.
Drink sips of water.
Seek immediate medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed

Nausea in case of ingestion.
Gastric or intestinal disorders when ingested.

Indication of any immediate medical attention and special treatment needed

No relevant information available.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

The product is not flammable. Use fire fighting measures that suit the environment.

Unsuitable Extinguishing Media

None.

Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal Precautions**

Use personal protection recommended in Section 8. Ensure adequate ventilation. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental Precautions**Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up**Methods for Containment**

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Always obey local regulations. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Methods for Cleaning Up

Use Limestone to neutralize and/or absorb spill. Clean affected areas with warm water.

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities**Storage**

Use only receptacles specifically permitted for this substance/product. Unsuitable material for receptacle; aluminum. Store in cool, dry condition in well-sealed receptacles.

Incompatible Products

Store away from foodstuffs. Do not store with alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------|----------------------|--------------------|------------|
| Sulfuric Acid 7664-93-9 | 0.2mg/m ³ | 1mg/m ³ | - |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls**Engineering Measures**

Keep away from foodstuffs. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear impermeable and resistant to the product/substance/preparation protective gloves. Selection of glove material on consideration of the penetration times, rates of diffusion and degradation.

Respiratory Protection

Not required under normal conditions of use. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. DO not Eat, Drink or Smoke when using this product. Do not inhale gases/fumes/dust/mist/vapors/aerosols. Avoid contact with eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and Chemical Properties**

Physical State
Appearance
Color

Liquid
Aqueous solution
Clear

Odor
Odor Threshold

Sulphurous
No information available

Property
pH

Values
<1

Remarks/ Method
None known

Melting/freezing point

Below 0 °C

None known

| | | |
|--------------------------------------|---------------------|------------|
| Boiling point / boiling range | No data available | None known |
| Flash Point | No data available | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | | |
| Upper flammability limit | No data available | None known |
| Lower flammability limit | No data available | None known |
| Vapor pressure | 23 hPa (17.3 mm Hg) | None known |
| Vapor density | No data available | None known |
| Specific Gravity | Approximately 1 | None known |
| Water Solubility | Soluble in water. | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |

10. STABILITY AND REACTIVITY

Reactivity

No relevant information available.

Chemical stability

No decomposition if used and stored according to specifications

Possibility of Hazardous Reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with certain metals.

Reacts with Alkalis.

Conditions to avoid

Store away from oxidizing agents.

Incompatible materials

Alkalis.

Hazardous Decomposition Products

Oxides of Sulfur

11. TOXICOLOGICAL INFORMATION

Component Information

Bases on available data, the classification criteria are not met.

Information on toxicological effects

IARC: None of the ingredients are listed.

NTP: 7664-93-9 Sulfuric acid K

OSHA-Ca: None of the ingredients are listed

Probable routes of exposure: Ingestion, Inhalation, Eye Contact, Skin Contact.

12. Ecological Data

Ecotoxicity

No relevant data available

Persistence and Degradability

Not applicable for text method.

Bioaccumulation

Not Bioaccumulative.

Mobility in soil

Aqueous solution has high mobility in soil.

Other adverse effects

No relevant data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not dispose together with household garbage. Do not allow product to reach sewage system or open water.

14. TRANSPORT INFORMATION

DOT

Not Regulated

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies

DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

None of the ingredients are listed.

SARA 311/312 Hazard Categories

None of the ingredients are listed

US State Regulations

California Proposition 65

None of the ingredients are known to cause cancer.

16. OTHER INFORMATION

| <u>NFPA</u> | Health Hazards | Flammability | Instability | Physical and Chemical Properties |
|-------------|----------------|--------------|------------------|----------------------------------|
| | 1 | 0 | 0 | W |
| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal protection |
| | 1 | 0 | 0 | X |

Prepared By Technical Department

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Reference

General Disclaimer

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.

End of Safety Data Sheet