

## Safety Data Sheet



Suppliers Chemical  
PO Box 226  
Ellisville, MO 63011

### Section 1. Chemical Product and Company Identification

**Product Name** Brite Alum  
**Product Use** Acid  
**Product Code** 83548-QPA-A  
**Date of Issue** 3/21/23  
**Supersedes**

**Emergency Telephone Numbers**  
**CHEMTREC- 1-800-424-9300**

(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

### Section 2. Hazards Identification

#### Emergency Overview

**DANGER**



#### Health Hazards

Acute Toxicity; Oral, Inhalation  
Skin Corrosion/Irritation  
Serious eye damage/ eye irritation

Category 4  
Category 1  
Category 1

#### Precautionary Statements:

P260	Do not breathe in mist/vapors/spray/fumes
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves, clothing and eye protection
P301+P330+P331+P312	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell
P303+P361+P353	IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or physician
P363	Wash all contaminated clothing before reuse
P405	Store locked up
P501	Dispose of in accordance with all federal, state and local regulations

#### Hazard Statements:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled

Routes of Entry    **Dermal, Oral, and Inhalation**

#### Acute Effects:

<b>Eyes</b>	Vapors, liquid, and mists are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the liquid or mists can severely damage the eyes, and prolonged contact may cause permanent eye injury, which may be followed by blindness.
<b>Skin</b>	Vapors, mists, and liquid are extremely corrosive to the skin. Vapors will severely irritate the skin, and liquid and mists will severely burn the skin. Prolonged liquid contact will burn or destroy surrounding tissue.

- Inhalation** Vapors and mists are extremely corrosive to the nose, throat, and mucous membranes. Bronchitis, pulmonary edema, and chemical pneumonitis may occur. Irritation, coughing, chest pain, and difficulty in breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage. Onset of symptoms may be delayed several hours. Breathing high concentrations (greater than 200 parts per million of nitric acid) for several minutes may result in death 5 to 10 hours later.
- Ingestion** Vapors, mists, and liquid are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting, kidney damage, and collapse. Swallowing large quantities can cause death.

### Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Ingredients</u>	<u>CAS Number</u>	<u>% by Weight</u>
Hydrofluoric Acid	7664-39-3	<10
Sulfuric Acid	7664-93-9	<5
Ethoxylated Nonylphenol	9016-45-9	<5
Phosphoric Acid	7664-82-2	<5

### Section 4. First Aid Measures

- Eye Contact** Flush immediately with plenty of clean water for at least 15 minutes. Seek immediate medical attention.
- Skin Contact** Flush immediately with plenty of clean water. If burns or rash develop, seek medical attention.
- Inhalation** Remove person to fresh air. Begin CPR if breathing has stopped, and seek immediate medical attention.
- Ingestion** Rinse mouth .DO NOT induce vomiting.. NEVER give anything orally to unconscious persons. Seek immediate medical attention.

### Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)  
(estimated rating)



- Hazardous Combustion Products** N/A
- Extinguishing Media** Media applicable to surrounding fire
- Unsuitable Extinguishing Media** N/A
- Fire Fighting Procedures** Use protective gear. Use water spray to cool fire-exposed containers.

### Section 6. Accidental Release Measures

- Spill Clean Up** All spilled material must be contained and kept out of waterways, sewers and drains. The spilled chemical should be absorbed with an inert material. Flush cleaned area thoroughly with water.

### Section 7. Handling and Storage

- Handling and Storage** Keep container tightly closed when not in use. Store at moderate temperatures. Do not contaminate. Keep from freezing. Keep out of the reach of children. Have eyewash accessible to use in handling area.

## Section 8. Exposure Controls/Personal Protection

## Exposure Limits

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
Hydrofluoric Acid (7664-39-3)	3ppm	3ppm		0.5ppm
Sulfuric Acid (7664-93-9)	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>		0.2mg/m <sup>3</sup>
Phosphoric Acid	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>		

**Engineering Controls** Local exhaust is normally adequate.



## Personal Protective Equipment (PPE)

**Eyes** Chemical splash goggles or face shield  
**Body** Rubber or neoprene gloves; rubber aprons  
**Respiratory** Not usually required. Use NIOSH approved respirator if build-up of mist or vapors is likely.

## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Explosive Limits</b>	N/A
<b>Color</b>	Clear	<b>Vapor Pressure</b>	N/A
<b>Odor</b>	Slightly acrid	<b>Vapor Density</b>	N/A
<b>Odor Threshold</b>	N/A	<b>Relative Density</b>	N/A
<b>pH</b>	N/A	<b>Solubility</b>	Complete
<b>Freezing Point</b>	N/A	<b>Partition Coefficient</b>	N/A
<b>Boiling Point</b>	N/A	<b>Auto-Ignition Temp.</b>	N/A
<b>Flash Point</b>	Not combustible	<b>Decomposition Temp.</b>	N/A
<b>Evaporation Rate</b>	>1	<b>Viscosity</b>	N/A
<b>Flammability</b>	Non-Flammable	<b>Specific Gravity</b>	1.03 – 1.04

## Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	Stable
<b>Incompatibility</b>	Alkaline materials and will etch glass
<b>Hazardous Polymerization</b>	Will not occur
<b>Hazardous Decomposition</b>	None
<b>Products</b>	
<b>Conditions to Avoid</b>	None

## Section 11. Toxicological Information

<b>Routes of Entry</b>	Dermal, Oral and Inhalation
<b>Symptoms</b>	Irritation to burns
<b>Skin Irritant</b>	Yes
<b>Eye Irritant</b>	Yes
<b>Sensitizers</b>	Not determined
<b>Mutagenicity</b>	No information found
<b>Carcinogenicity</b>	None
<b>Reproductive Toxicity</b>	No information found
<b>Target Organs</b>	None

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

**Acute Toxicity**

Test	Results	Basis
Dermal	4,651 mg/kg	ATE determined beyond Category 4
Oral	1,384 mg/kg	ATE determined Category 4
Inhalation	8,249 ppm	ATE determined Category 4

**Section 12. Ecological Information**

**Environmental Effects** No ecological information available

**Section 13. Disposal Considerations**

**Waste Information** Dispose of in accordance with all Federal, State and Local pollution control regulations.

**Section 14. Transportation Information**

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label Code
DOT Classification	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrofluoric acid, Sulfuric acid)	8	PGII	8

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

**Section 15. Regulatory Information**

**US Federal Regulations** The following substances are listed as a toxic chemical and are subject to report under the SARA act Section 313:

Hydrogen Fluoride	7664-39-3	<10%
Sulfuric Acid	7664-93-9	<5%

The following substances have CERCLA reportable quantity values (in pounds):

<b>Hydrofluoric Acid</b>	<b>7664-39-3</b>	<b>100</b>
<b>Sulfuric Acid</b>	<b>7664-93-9</b>	<b>1,000</b>
<b>Phosphoric Acid</b>	<b>7664-48-2</b>	<b>5000</b>

**State Regulations** None

**Section 16. Other Information**

**Last Revision** 3/21/23

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein

