



# Safety Data Sheet

Better Chemistry. Better Business

**AQUAPURE™ I-200 PLUS**

**Revised:** 4/23/21

## 1 IDENTIFICATION

**Product Name:** AQUAPURE™ I-200 PLUS

**Product Code :**2601126

**Recommended use of the chemical and restrictions on use:**Industrial applications

**Hubbard-Hall Inc.**

563 South Leonard Street  
Waterbury, CT 06708

**Telephone:** 203-756-5521

**Fax number:** 203-756-9017

Emergency Phone Number

**CHEMTREC:** 1 (800) 424-9300

**International:** 1 (703) 527-3887

## 2 HAZARDS IDENTIFICATION



**Signal Word:** DANGER

**Hazard Category:** Acute Toxicity-Oral Hazard Category 4

Eye Damage/Irritation Hazard Category 2B

Skin Corrosion/Irritation Hazard Category 2

Corrosive to Metals Hazard Category 1

**Hazard Statements:** Harmful if swallowed.

Causes eye irritation.

Causes skin irritation.

May be corrosive to metals.

**Prevention:** Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear rubber gloves, goggles and chemical protective clothing.

Keep only in original container.

**Response:** If on skin: Wash with plenty of water.

If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide the name of the chemical(s).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention .

Absorb spillage to prevent material damage.

**Storage:** Store in corrosive resistant high density polyethylene container.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Aluminum Sulfate	Alum	10043-01-3	~51.5%
Iron (II) Sulfate heptahydrate	Ferrous Sulfate Heptahydrate	7782-63-0	~46.5%
Sulfuric Acid	-	7664-93-9	~1%
Quarternary Ammonium Salt	-	31512-74-0	~1%

### 4 FIRST AID

#### After Inhalation:

Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator, or manually triggered, oxygen supply capable of delivering 1 liter/second or more. If the victim is breathing, oxygen may be administered from a demand-type or continuous flow inhalor, preferably with a physician's advice. Contact a physician immediately.

#### After Skin Contact:

Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice.

#### After Eye Contact:

Immediately flush the eyes with large quantities of running water for 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyelids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue rinsing for an additional 15 minutes if the physician is not available.

#### After Ingestion:

DO NOT induce vomiting. Immediately give large quantities of water or milk, if available. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center.

### Most Important Symptoms/Effects

#### Delayed:

Will aggravate breathing disorders.

### 5 FIRE FIGHTING MEASURES

#### Suitable and Unsuitable extinguishing media:

If involved in a fire, use water spray. Neutralize with soda ash or slaked lime.

#### Specific hazards arising from the chemical:

Sulfur dioxide may be produced.

Carbon oxides may be produced.

#### Special protective equipment and precautions for firefighter

In the event of a fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving this material. Stay away from ends of tanks. Cool tanks with water spray until well after fire is out.

Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

### 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions,  
Protective Equipment, &  
Emergency Proc**

Prevent spilled product from drains, sewers, waterways and soil.

**Methods and Materials for  
containment & cleaning up:**

Neutralize spill with soda ash or lime under good ventilation. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime will evolve heat and carbon dioxide thus the need for ventilation.

If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

**7 HANDLING AND STORAGE**

**Precautions for safe handling:**

Use in well ventilated area.

Avoid breathing dust, fumes, gas, mist, vapors and sprays.

Wear rubber protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.

Wash hands thoroughly after handling.

Do not get in eyes, or on skin, or on clothing.

Eating, drinking and smoking in the work area is prohibited.

**Conditions for safe storage,  
inc any incompatibilities:**

Keep container tightly closed.

Store locked up and away from incompatible chemicals.

Store in a well ventilated place. Keep cool .

Store in corrosive resistant container.

Do not allow material to freeze.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Name	Std.	TWA-8hrs	STEL - 15 min.
Aluminum Sulfate	ACGIH	2 mg/m3	-
Iron (II) Sulfate Heptahydrate	ACGIH	1 mg/m3 as Fe	-

ACGIH - American Control of Governmental Hygenists  
OSHA - Occupational Safety and Health Administration

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Brown liquid
<b>Odor:</b>	Very mild sweet
<b>Odor Threshold:</b>	N/A
<b>PH:</b>	0.8-1.2
<b>Melting Point/Freezing Point:</b>	N/A
<b>Initial Boiling Point and Boiling Range:</b>	N/A
<b>Evaporation Rate:</b>	N/A
<b>Flammability (solid, gas):</b>	N/A

Upper/Lower flammability or explosive limits:	N/A
Vapor Pressure:	N/A
Relative Density:	1.235-1.265
Solubility (ies):	Complete in water
Partition Coefficient; n-octanol/water:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

## 10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Extremely reactive. Avoid contact with metal surfaces and oxidizing agents.
Incompatible Materials:	Alkalies. Arsenic trioxide and sodium nitrate: spontaneously combustible mixture. Methyl isocyanacetate: may decompose explosively at 25 degrees
Hazardous Decomposition Products:	Sulfur Oxides may be formed. These are toxic and corrosive and are oxidizers. Sulfur trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.

## 11 TOXICOLOGICAL INFORMATION

Oral Administration:	Aluminum Sulfate LD50(Rat)-1930 mg/kg
Oral Administration:	Iron (II) Sulfate Pentahydrate - LD50 (Mouse) - 1520 mg/kg
Oral Administration:	Sulfuric Acid-LD50-(Rat)-2140 mg/kg
Oral Administration:	Quarternary Ammonium Salt-LD50(Rat)-1950 mg/kg
Inhalation:	Not established for this product
Dermal administration:	Quarternary Ammonium Salt- LD50(Rabbit)->2000 mg/kg
Short term exposure:	Irritation or burns to skin, eyes and respiratory system
Long term exposure:	Severe irritation or burns to skin, eyes and respiratory system
Cancer Hazard:	IARC group 1-Carcinogenic to Humans(Strong inorganic mists containing Sulfuric acid),ACGIH-A2-Suspected Human Carcinogen.
Routes of Exposure	Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

Persistence and Degradability:	Not Available
Abiotic degradability:	No data available
Bioaccumulation potential:	No data available
Soil/Sediment Result:	Pronounced solubility and mobility

## 13 DISPOSAL CONSIDERATION

*Dispose of in accordance with local, state and federal regulations.*

## 14 TRANSPORT INFORMATION

UN Number:	3264
UN Proper Shipping Name:	CORROSIVE LIQUID,ACIDIC,INORGANIC,NOS(ALUMINUM SULFATE)
Transport Hazard Class (es):	8

## 15 REGULATORY INFORMATION

HMIS: Health: 2 Flammability: 0 Reactivity: 0

Cercla Aluminum Sulfate-RQ=5000 lbs

**Sara Hazard Classification** Sulfuric Acid-Subject to reporting levels established by SARA Title III,Section 313

**Proposition 65** WARNING! This product contains a chemical known in the State of California to cause cancer. Strong inorganic mists containing sulfuric acid.

**TSCA Inventory Status** All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements .

## 16 OTHER INFORMATION

**Disclaimer:** The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.