SAFETY DATA SHEET CHEM-AQUA 82254, 1 LB BULK, US GEN

Supercedes Date: Not applicable **Issuing Date:** 01/29/2025

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHEM-AQUA 82254, 1 LB BULK, US GEN
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code: 3C04
Chemical nature Aqueous mixture
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless to yellow **Physical state** Liquid **Odor** Negligible
Appearance Transparent to Hazy

GHS Classification

Physical Hazards

Corrosive to metals	Category 1

Health Hazard

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Hazards not otherwise classified (HNOC)
Not applicable

Labeling
Signal word
Warning

Hazard statements
May be corrosive to metals
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements
Wear protective gloves, protective clothing and eye protection.
Wash face, hands and any exposed skin thoroughly after handling.
IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
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 advice/attention.
Absorb spillage to prevent material damage
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Aluminum chloride hydroxide sulfate	39290-78-3	30-60

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

4. FIRST AID MEASURES

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

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation No hazards which require special first aid measures.

Ingestion No hazards which require special first aid measures.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed
Symptoms May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed
Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
Upper flammability limit: No information available **Lower flammability limit:** No information available
Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.

NFPA	**Health hazards** 3	**Flammability** 0	**Stability** 0
HMIS	**Health hazards** 3	**Flammability** 0	**Physical Hazard** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up Pick up and transfer to properly labeled containers.
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature	**Minimum**	>5 °F / >-15 °C		**Maximum**	<115 °F / <46.11 °C		
Storage Conditions	**Indoor**	X	**Outdoor**		**Heated**		**Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles.
Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	**Kinematic viscosity**	No data available
Color	Colorless to yellow	**Odor**	Negligible
Odor threshold	Not applicable	**Appearance**	Transparent to Hazy
pH	2.1	**Specific Gravity**	1.285
Evaporation Rate	No data available	**Percent Volatile (Volume)**	No information available
VOC content	0	**VOC Content (g/L)**	0
Product VP (mmHg @ 70°F)	No data available	**Relative vapor density**	No data available
Solubility(ies)	Soluble below pH 4	**n-Octanol/Water Partition**	No data available
Melting Point/Range	10 °F / -12 °C	**Decomposition temperature**	No data available

Initial boiling point and boiling range	220 °F / 104 °C	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	Not applicable
Autoignition Temperature	No information available		

Upper flammability limit: No information available **Lower flammability limit:** No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition. Protect from direct sunlight and extremes of temperatures.
Incompatible Products	Oxidizing agents, Reducing agents, Alkalis.
Decomposition temperature	No data available
Hazardous decomposition products	Hydrogen chloride gas, Chlorine gas, Carbon oxides, Sulfur oxides.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
Inhalation LC50	
ATEmix (inhalation-gas)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Skin contact.
Acute Effects:	
Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.
Inhalation	Low hazard for usual industrial or commercial handling.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic toxicity	Inhaled corrosive substances can lead to a toxic edema of the lungs.
Target organ effects	No information available.
Aggravated Medical Conditions	Skin disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Others
Aluminum chloride hydroxide sulfate 39290-78-3	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5 mg/L (Rat) 4 h	No data available	No data available

Chronic Toxicity No information available

Carcinogenicity Contains no ingredient listed as a carcinogen

12. ECOLOGICAL INFORMATION

Product Information No information available

Persistence and Degradability	No information available
Bioaccumulation	No information available
Mobility	No information available

Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to microorganisms	Crustacea	Partition coefficient
Aluminum chloride hydroxide sulfate	No information available	LC50/48h/Leuciscus idus melanotus = 1460-1500 mg/L	No information available	No information available	3

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT
- **Proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE)
- **Transport hazard class(es)** 8
- **UN number or ID number** UN3264
- **Packing group** III
- **Description** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE),8, PG III

TDG
- **UN proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE)
- **Transport hazard class(es)** 8
- **UN number or ID number** UN3264
- **Packing group** III
- **Description** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE),8, PG III

ICAO (air)
- **UN number or ID number** UN3264
- **UN proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE)
- **Transport hazard class(es)** 8
- **Packing group** III
- **Description** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE),8, PG III

IATA
- **UN number or ID number** UN3264
- **UN proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE)
- **Transport hazard class(es)** 8
- **Packing group** III
- **Description** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE),8, PG III

IMDG
- **UN proper shipping name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE)
- **Transport hazard class(es)** 8
- **UN number or ID number** UN3264
- **Packing group** III
- **Description** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.,(ALUMINUM CHLORIDE HYDROXIDE SULFATE),8, PG III

15. REGULATORY INFORMATION

Inventories
TSCA Listed
DSL/NDSL Listed
US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

16. OTHER INFORMATION

Prepared By Pamela Starkey
Supercedes Date: Not applicable

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Revision Note	No information available
Glossary	No information available
List of References.	No information available

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