

BOARD OF DIRECTORS MEETING

Prior notice was waived, and a meeting of the Directors was held on May 7, 2024. The following resolution was adopted in respects to the official signing of bids and contracts on behalf of Pencco, Inc.

BE IT RESOLVED that Sarah Duffy, Bid Director, of the Corporation has authority to negotiate for and sign any bids/contracts which the Corporation might enter into for the furnishing of goods and services for the Corporation under such terms, conditions and stipulations, as for such consideration as she may deem to be in the best interest of the Corporation.

No further business was necessary, and the meeting was concluded.

R. L. Horne, President

Aline Horne, Secretary



AFFIDAVIT OF COMPLIANCE

This is to certify that the Liquid Ammonium Sulfate supplied by our company meets AWWA Standard B302-16 or the latest revision and is certified to NSF/ANSI Standard NSF-60.

Signature

RL Horne, President

Name and Title of Official

8/1/2023

Date



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday**, **February 18**, **2025** at 12:15 a.m. Eastern Time. Please <u>contact NSF</u> to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information: http://info.nsf.org/Certified/PwsChemicals/Listings.asp?
CompanyName=pencook

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

PENCCO, Inc.

831 Bartlett Road Sealy, TX 77474 United States

800-864-1742

979-885-0005

<u>Visit this company's website (http://www.pencco.com)</u>

Facility: Distribution Center - Gadsden, AL

Ferric Sulfate

T CATAC CULTURE		
Trade Designation	Product Function	Max Use
50% Ferric Sulfate	Coagulation & Flocculation	650mg/L
60% Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L
Hydrofluosilicic Acid		
T	n 1 . r	

Trade Designation	Product Function	Max Use
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
HFS	Fluoridation	5mg/L
HFSA	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility: Distribution Center - Stockton, CA

Fe	rric	Chl	oride
T. Ć	111		JIIUC

Trade Designation	Product Function	Max Use
Ferric Chloride	Coagulation & Flocculation	600mg/L

Hydrofluosilicic Acid

Trade Designation	Product Function	Max Use
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
HFS	Fluoridation	5mg/L
HFSA	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility: Vernon, CA

Ferric Chloride

Trade Designation	Product Function	Max Use
Ferric Chloride	Coagulation & Flocculation	600mg/L

Ferrous Chloride

Trade Designation	Product Function	Max Use
Ferrous Chloride	Coagulation & Flocculation	500mg/L

Facility: Distribution Center - Willow Springs, IL

Hydrofluosilicic Acid

Trade Designation	Product Function	Max Use
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility: Distribution Center - Whippany, NJ

Hydrofluosilicic Acid

Trade Designation	Product Function	Max Use
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility: Middlesex, NC

Ammonium Sulfate		
	Product Function	Man Han
Trade Designation Ammonium Sulfate	Chloramination	Max Use
LAS	Chloramination	55mg/L
	Chloramination	55mg/L
Liquid Ammonium Sulfate	Chioranimation	55mg/L
Blended Coagulation Chemicals		
Trade Designation	Product Function	Max Use
COAGteC PFS	Coagulation & Flocculation	200mg/L
Family Colfees		
Ferric Sulfate	Product Function	Max Use
Trade Designation 50% Ferric Sulfate		
60% Ferric Sulfate	Coagulation & Florenstein	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
	Coagulation & Floculation	650mg/L
Penn 3202	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L
Hydrofluosilicic Acid		
Trade Designation	Product Function	Max Use
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L
Facility: Distribution Center - Bardwell, TX		
Ferric Chloride		
Trade Designation	Product Function	Max Use
Ferric Chloride	Coagulation & Flocculation	600mg/L
Pencco 3012	Coagulation & Flocculation	600mg/L
Ferric Sulfate		
Trade Designation	Product Function	Max Use
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L
Ferrous Chloride		
Trade Designation	Product Function	Max Use
Ferrous Chloride	Corrosion Control	500mg/L
	Coagulation & Flocculation	300 8/ L
Pencco 0210	Corrosion Control	500mg/L
	Coagulation & Flocculation	Joonie, n
	Confinencia a 1 rocculation	
Hydrofluosilicic Acid		
Trade Designation	Product Function	Max Use

Fluoridation

5mg/L

Fluorosilicic Acid

Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility: Ennis, TX

Trade Designation	Product Function	Max Use
Ferric Chloride	Coagulation & Flocculation	600mg/L
Pencco 3012	Coagulation & Flocculation	600mg/L

Ferric Sulfate

Trade Designation	Product Function	Max Use
50% Ferric Sulfate	Coagulation & Flocculation	650mg/L
60% Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L

Ferrous Chloride

Trade Designation	Product Function	Max Use
Ferrous Chloride	Corrosion Control	500mg/L
	Coagulation & Flocculation	
Pencco 0210	Corrosion Control	500mg/L
	Coagulation & Flocculation	

Ferrous Sulfate[1]

Trade Designation	Product Function	Max Use
Ferrous Sulfate	Coagulation & Flocculation	150mg/L
GreenIron	Coagulation & Flocculation	150mg/L
SafeIron	Coagulation & Flocculation	150mg/L

^[1] Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Hydrofluosilicic Acid

Trade Designation	Product Function	Max Use
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility: Sealy, TX

Ammonium Sulfate		
Trade Designation	Product Function	Max Use
Ammonium Sulfate	Chloramination	55mg/L
Ferric Sulfate		
Trade Designation	Product Function	Max Use
50% Ferric Sulfate	Coagulation & Flocculation	650mg/L
60% Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L
Penn 3202	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L
Hydrofluosilicic Acid		
Trade Designation	Product Function	Max Use
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Number of matching Manufacturers is 1 Number of matching Products is 72 Processing time was 0 seconds



Safety Data Sheet (SDS) Liquid Ammonium Sulfate Solution

SECTION 1 - Chemical Identification and Supplier's Information

Product Name: Ammonium Sulfate lise.

Water Treatment **Chemical Formula:** (NH₄)₂SO₄

Chemical Family:

Inorganic Salts

CAS #:

7783-20-2

Supplier's Name & Address:

Pencco, Inc. P.O. Box 600

San Felipe, TX 77473

Emergency Phone:

Pencco

CHEMTREC

(979) 885-0005

(800) 262-8200 - 24 hours a day

SECTION 2 - Hazards Identification

GHS Information

Signal Word: WARNING Hazard Class: No Physical Hazards

Hazard Category:

N/A

Hazard Statement:

Causes eye irritation.

mild Causes skin

irritation.

Appearance and Odor: Colorless to brown color with possible slight ammoniacal odor.

Pictograms: None required

and Title 40n of the Code of Federal Regulations. Part 372.

Summary of Acute Health Hazards

irritation Ingestion: Causes the gastrointestinal tract. Symptoms may include diarrhea, nausea, vomiting. It presents little toxicity unless large amounts are ingested; in which case vomiting and diarrhea are likely.

Inhalation: Irritating to the respiratory tract. Symptoms may include coughing and shortness of breath.

Skin: May cause irritation to the skin with prolonged contact. Symptoms may include redness, irritation, itching, and pain.

Eyes: Causes irritation to the eyes. Symptoms may include redness, pain.

Signs and Symptoms of Chronic Exposure: N/F

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a

Health Hazards

Emergency Overview: Warning! Harmful if swallowed. May cause irritation to skin, eyes, and respiratory track.

SARA Title III Hazard Classification

SARA 313 of Title III of 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



known anticipated carcinogen by NTP, IARC, or OSHA.

Storage Considerations

Store locked up. (P405)

Disposal Considerations

 Dispose of this material or dry material generated from clean-up of spills must comply with federal, state, and local regulations regarding inorganic chemical wastes. **Carcinogenicity:** None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Fire and Explosion Hazards: This product will not burn and is not flammable.

	NFPA Rating	HMIS Rating	4 = Extreme / Severe
Health	1	1	3 = High / Serious
Reactivity	0	0	2 = Moderate
Flammability	0	0	1 = Slight



SECTION 3 - Composition/Information on Ingredients

Chemical Identity:

Ammonium Sulfate Solution

Common Name and synonyms: Ammonium Sulfate Solution, Liquid Ammonium Sulfate, Diammonium Sulfate Solution

Ingredient	CAS#	Weight Percentage
Water	7732-18-5	40 - 69%
Ammonium Sulfate	7783-20-2	31 -60%

SECTION 4 - First Aid Measures

Eye Contact First Aid: Immediately flush eyes for 15 minutes with large amounts of water while holding eyelids apart. Washing within one minute is essential to achieve maximum effectiveness. Forcibly hold eyelids open to ensure complete irrigation of the eye tissue. Seek medical attention if irritation develops and persists.

Skin Contact First Aid: Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation develops or persists. Wash clothing prior to re-use. Seek medical attention if irritation develops and persists.

Inhalation First Aid: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if irritation develops and persists.

Ingestion First Aid: Induce vomiting, but only if victim is fully conscious. Give large amounts or water. Never



give anything by mouth to an unconscious person. Call a physician.

Notes to physician

Treatment: Treat symptomatically.

SECTION 5 - Fire Fighting Measures

Flash Point: Not applicable.

Upper/Lower Explosion Limits in Air: Not applicable.

Auto Ignition Temperature: Not applicable.

Extinguishing Media: Will not burn; use materials appropriate for surrounding fire.

Fire and Explosion Hazards: Substance itself does not burn but may decompose into a flammable ammonia gas if in a fire. May explode if mixed with strong oxidizers such as nitrates, nitrites, chlorates, etc.

Hazardous Product of Decomposition or Combustion: Substance itself does not burn but may decompose into a flammable ammonia gas and sulfur oxides if in a fire. May explode if mixed strong oxidizers such as nitrates, nitrites, chlorates, etc.

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting: Container may rupture on heating. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as: Sulphur oxides, Ammonia, Carbon monoxide, Carbon dioxide (CO2)

Special protective equipment: In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Further information: Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.

SECTION 6 – Accidental Release Measures

Personal precautions: Wear personal protective equipment. Unprotected persons must be kept

away.

Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Remove all sources of ignition. Provide adequate ventilation.

Avoid dust formation. Avoid breathing dust.

Avoid contact with skin, eyes, and clothing.

Environmental precautions: Do not flush into surface water or sanitary sewer systems.



Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods for cleaning up:

Use mechanical handling equipment. Clean contaminated surface thoroughly.

Pick up and arrange disposal without creating dust.

Use a suitable vacuum cleaner.

US EPA Waste Number: No information available

SECTION 7 - Handling and Storage

Handing: Avoid all eyes and skin contact and avoid creating or breathing vapor and mist. Wear recommended personal protective equipment. Ensure there is adequate ventilation, such as outdoors. Keep away from heat and open flame. Employ good maintenance practices to prevent leaks. Use good process control measures to prevent releases.

Storage: Keep storage tanks and containers closed and contents protected from dust, dirt, and moisture. Clean storage tanks on a regular schedule based on inspection and experience. Have storage tanks, containers, and transfer systems properly labeled for contents. Have procedures for determining product quantity in storage tanks and for accepting deliveries.

Use tanks, transfer lines, pumps valves and process instrumentation designed for this material using approved materials of construction. Some materials commonly used are stainless steel, some plastics, and FRP.

SECTION 8 - Exposure Controls and Personal Protection

Respiratory Protection: None normally required. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

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







Eye Protection: Use chemical safety goggles and face shield if splashing hazard exists. Do not wear contact lenses.

Skin Protection: Where there is possibility of skin contact, gloves, and boots as necessary to minimize contact. Long sleeved clothing.



General Hygiene Considerations: To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Engineering Measures: Use local exhaust to keep airborne concentrations blew the permissible exposure limits. Apply technical measures to comply with the occupational exposure limits.

SECTION 9 – Physical and Chemical Properties

Boiling Point:	102 - 105°C (215.6 - 221°F)	pH:	5.5 - 6 (100g per 1L H ₂ O)
Physical State:	Liquid	Viscosity:	2.0 Mpa.s @ 40°C
Melting Point:	-5.3 °C (22.5 °F)	Solubility in Water:	Complete 42.3%(w) @ 0°C, 46.3%(w/w) @ 50°C, 49.9%(w/w) @ 100°C
Specific Gravity:	1.21 to 1.23 Water = 1.0	Vapor Pressure:	24 mm Hg at 25°C
Appearance:	Colorless to light tan	Odor:	Ammoniacal (Slight)

OSHA/HCS Status:

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

SECTION 10 - Stability and Reactivity

Stability: Stable under normal and recommended conditions of use and storage.

Conditions to Avoid: High heat, incompatible substances.

Decomposition: Substance itself does not burn but may decompose into a flammable ammonia gas and sulfur oxides if in a fire. May explode if mixed with strong oxidizers such as nitrates, nitrites, chlorates, etc.

Polymerization: Will not Occur.

Incompatibility: Strong oxidizing agents. (Zinc, Copper, Copper-bearing materials, Nitrates, Nitrites,

chlorates, and other strong oxidizers).

SECTION 11 – Toxicological Information

Chronic Effects: Prolonged or repeated skin exposure may cause skin irritation.

Irritancy: Mild irritant

Sensitization: No information found.

Synergistic Materials: No information found. **Animal Toxicity:** LD50 3000 mg/kg (oral, rat)

Carcinogenicity: Not listed as carcinogenic (IARC and ACGIH).

Reproductive Toxicity: No information found.

Teratogenicity: No information found. **Mutagenicity:** No information found.



SECTION 12 - Ecological Information

Ecotoxicity:

Toxicity to fish:

LC50: > 460 mg/l

Exposure time: 96 h

Species: Leuciscus idus (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates:

LC50: 423 mg/l

Exposure time: 23h

Species: Daphnia magna (water flea)

LC50 433 mg/l

Exposure time: 50 h

Species: Daphnia magna (water flea)

LC50: 292 mg/l

Exposure time: 100h

Species: Daphnia magna (water flea)

SECTION 13 - Disposal Considerations

Disposal of this product or dry material generated from clean-up of spills must comply with federal, state, and local regulations regarding inorganic chemical wastes.

Contaminated packaging, rinse thoroughly with water and add dilution to treated system as product. Recycle or dispose of at a licensed facility.

SECTION 14 - Transportation 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.

Not regulated for transport according to: US DOT, IMDG, IATA, and Canada's TDG.

SECTION 15 - Regulatory Information

Inventories

US. Toxic Substance Control Act:

On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act:



On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)

All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List:

On the inventory, or in compliance with the inventory.

Korea. Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory.

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act:

On the inventory, or in compliance with the inventory.

China. Inventory of Existing Chemical Substances:

On the inventory, or in compliance with the inventory.

NPRI

Canadian Notional Pollutant Release Inventory (NPRI): No component is listed on NPRI.

SECTION 16 – Other Information

Revision Date: August 19, 2024

Sourced from Virginia. Pencco provides the information contained in each SDS, technical data sheet ("TDS"), product information brochure and/or information contained herein (including data and statements) in good faith and makes no representations as to its comprehensiveness or accuracy as of the date of publication. The SDSs, TDSs, and product information brochures are referred to collectively as the "Data Sheets". It is the responsibility of the user to obtain and use the most recent version of the Data Sheets. Each Data Sheet relates only to the specific product designated therein and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information are beyond the control of Pencco, Pencco expressly disclaims any and all liability as to any consequential damages or results obtained or arising from any use of the products or the information contained in the Data Sheets. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE DATA SHEETS OR THE RELATED PRODUCTS.

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Product Data Sheet

CHARACTERISTICS

Liquid Ammonium Sulfate is an odorless, clear, faint yellow to amber colored liquid. It is an advanced inorganic product suitable for industrial and municipal water and wastewater treatment applications.

TYPICAL PROPERTIES

Formula: Aqueous solution of ammonium sulfate

C.A.S. 7783-20-2 (Ammonium Sulfate)

pH (neat) 4.0 – 8

Specific Gravity @ 21° C (70°F) 1.216-1.228

Freezing Point Less than -12°C (10°F)

Density, lbs./gal., US 10.15-10.25 $(NH_4)_2SO_4$, % 38-40 NH_3 Equivalent, % 9.8-10.3

PRODUCT USES

Municipal and industrial water and wastewater treatment for disinfection as a source of ammonia in chlorination. Disinfection byproduct control.

SHIPPING CONTAINERS

Bulk Transport Bulk Car 275 US gal. one-way container 55 US gal. plastic drum

SHIPPING REGULATIONS (US DOT / TDG)

Classification: Not regulated for transport

RQ: Not Applicable

PRODUCT SAFETY INFORMATION

Anyone procuring, using, or disposing of these products or their containers must be familiar with the appropriate safety and handling precautions. Such information may be found in the Safety Data Sheets (SDS) for these products, or you may contact Pencco at 979-885-0005. In the event of an emergency with these products, call the 24-hour Emergency Number: USA and Canada (CHEMTREC) 800-262-8200.

For additional information contact:

Pencco, Inc. Emergency Contact Information

P.O. BOX 600, San Felipe, TX 77473 Office: 1-800-864-1742

Phone: 979-885-0005 Fax: 979-885-3208 CHEMTREC (US) 24 hr: 1-800-262-8200

Revision Date: February 29, 2024

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