



FINANCIAL SERVICES
212 SW 9th Street
Lawton, Oklahoma 73501
(580) 581-3328 Ext 4 FAX (580) 581-3438

MEMORANDUM

To: Rusty Whisenhunt, Director of Public Utilities
From: Julie Magness, Budget and Accounting Supervisor *JM*
Date: 8/26/21
Subject: CL20-028 Liquid Aluminum Sulfate

Please find the bids enclosed for CL20-028 Liquid Aluminum Sulfate following the bid opening on Tuesday, August 24th, 2021.

Please review the bids and send us your vendor recommendation for this contract by 8/31/2020, if possible.

If you have any questions or concerns, please contact Marcie Sego, Buyer (Marcie.sego@lawtonok.gov) and Maegan Dowlen, Contract Administrator (maegan.dowlen@lawtonok.gov).

Thank you,

Julie



FINANCIAL SERVICES
212 SW 9th Street
Lawton, Oklahoma 73501
(580) 581-3328 Ext. 4 FAX (580) 581-3438

August 3, 2021

Interested Vendor:

SUBJECT: **Special Instructions for Submission of Bid Packet**

If you desire to submit a bid for **CL20-028 Liquid Aluminum Sulfate**, this letter is provided to clarify problem areas.

The bid packet is composed of the following documents:

- Invitation for Bid and Contract with General Instructions
- Affidavit For Payments In Excess Of Twenty-Five Thousand Dollars (\$25,000.00)
- Department Specifications / Compliance Sheet
- Price Bid Sheet

You must include the following items in your bid packet or your bid cannot be considered:

- Page 1 of the Invitation for Bid/Contract must be returned. It must be the **original properly signed and notarized**.
- Price Bid Sheet and specifications sheets (with vendor's comments if applicable)

Please submit two (2) copies of any additional documents such as descriptive literature, samples, material safety data sheets or references. Please note that in some specifications, the submittal of the additional documents is required. If the documents are required and are not submitted, your bid may be considered non-responsive.

If you will require additional documents to be executed such as service agreements etc., they must be submitted for legal review with your bid. No additional documents shall be considered or executed following bid submission unless it is deemed necessary by the City.

Bid openings are held at 212 SW 9th Street Lawton, OK 73501 in the 2nd floor Conference Room @ 2:00 pm. Bid results may be obtained by attending the bid opening, making a written request and enclosing a stamped, self-addressed envelope, or by fax. Bid results are not available by telephone. Please specify if you desire the bid results or the results of who received the contract. Contract award information will not be available until the City Council awards the contract. Information will be mailed or faxed to the requester.

Examine your bid packet carefully as soon as you receive it. If any of the requested items are missing or if you have questions about the bid packet, contact Marcie Sego via email at Marcie.sego@lawtonok.gov or Maegan Dowlen via email at maegan.dowlen@lawtonok.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read "MD", is written over a horizontal line.

Maegan Dowlen
Contract Administrator
Financial Services

City of Lawton

INVITATION TO BID AND CONTRACT

MAIL SEALED BIDS TO: City Clerk City of Lawton 212 SW 9th Street Lawton, OK 73501		DIRECT INQUIRIES TO: Marcie Sego, Buyer marcie.sego@lawtonok.gov Maegan Dowlen, Contract Administrator maegan.dowlen@lawtonok.gov	
Date Bid Typed: August 3, 2021	Dates Bid Advertised: August 4, 2021	No Bids Received After: August 24, 2021 2:00 P.M.	
Contract Number and Title: CL20-028 LIQUID ALUMINUM SULFATE		Requirements-type Contract: YESX	Contract Period: 12 months
Bid Openings are held at Lawton City Hall 2nd Floor Conference Room 212 SW 9th Street Lawton, OK 73501 @ 2:00 pm			
Vendor Name and Point of Contact: CHAMELEON INDUSTRIES INC. FAUSTINO "CHINO" GARZA, PRESIDENT		Reason for No Bid:	
Mailing Address: PO Box 853027		Terms: NET 30 DAYS	
City: Mesquite State: TX Zip: 75185	Delivery: 48 HRS ARO		
Area Code and Phone Number: 972.880.1493		FAX Area Code and Phone Number: 972.692.8642	
Federal Employer Identification Number or Social Security Number 75-2853080			

THIS BID INVALID IF NOT SIGNED AND NOTARIZED

AFFIDAVIT: **STATE OF** TEXAS **COUNTY OF** DALLAS

JASON L. GARZA

of lawful age, being first duly sworn, on oath says that:

1. Affiant is the duly authorized agent of the bidder/vendor and/or contractor submitting the competitive bid and executing the contract which is attached to this statement, and that as such agent Affiant has the authority to bind the bidder/vendor, whether an individual, partnership, or corporation, for the purpose of negotiating and entering into said agreement, and for certifying the facts pertaining to the existence of collusion among bidders and between bidders and City officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached; 2. Affiant is fully aware of the facts and circumstances surrounding the making of the bid and/or the procurement of the contract to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bids; 3. Neither the bidder/vendor nor anyone subject to the bidder/vendor's direction or control has been a party: a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding, b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor d. to paying, giving or donating or agreeing to pay, give or donate to any officer or employee of the City of Lawton, any money or other thing of value, either directly or indirectly, in procuring the contract to which his statement is attached. 4. Affiant further agrees to be held personally liable in the event that Affiant has misrepresented the scope or extend of Affiant's authority to bind the bidder herein, and to indemnify and hold harmless the City of Lawton its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned from all damages based upon such misrepresentation, including but not limited to all costs and attorney fees incurred. in addition to any other remedies available by law.

Firm: Chameleon Industries, Inc.
Address: PO Box 853027
Mesquite TX 75185-3027
 (City, State, Zip)
Phone: 972-880-1493

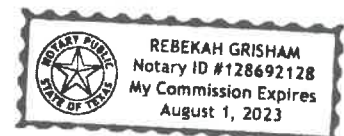
[Signature]
 SIGNATURE OF AUTHORIZED AGENT

JASON L. GARZA / VICE PRESIDENT
 PRINT/TYPE NAME/TITLE

Subscribed & sworn before me this 23rd day of August, 2021

[Signature]
 Notary Public
 My Commission expires: August 1, 2023

INVITATION TO BID AND CONTRACT
 PAGE 1 OF 11



GENERAL CONDITIONS FOR BIDDING REQUIREMENTS **CONTRACTS WITH THE CITY OF LAWTON, OKLAHOMA.**

**BIDDER – TO INSURE ACCEPTANCE OF THE BID,
CAREFULLY FOLLOW THESE INSTRUCTIONS. FAILURE
TO DO SO MAY RESULT IN THE REJECTION OF YOUR BID
WITHOUT FURTHER CONSIDERATION OR NOTICE TO YOU.**

SEALED BIDS: All bid sheets and this form must be executed and submitted in a sealed envelope. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE). The face of the envelope shall contain, in addition to the address on page one (1) of this document, the date and time of the bid opening and the contract number. Bids not submitted on this bid form shall be rejected. All bids are subject to the conditions specified herein. **Those which do not comply with these conditions are subject to rejection.** Bids will be considered only on first quality products. Bid files which include copies of specifications, drawings, schedules or special instructions are on file with the City Clerk and may be examined during normal working hours.

1. **EXECUTION OF BID AND CONTRACT:** Bid and contract documents must contain an original signature of authorized representative in the space provided. Bid must be typed or printed in ink. Use of erasable ink is not permitted. **ALL CORRECTIONS MADE BY BIDDER/VENDOR TO BID PRICE MUST BE INITIALED.** Do not use white out, correction tape or some other method of masking a correction.
2. **NO BID:** If not submitting a bid, respond by returning page one (1), marking it "NO BID" and explain the reason in the space provided above. Failure to respond 3 times in succession shall be cause for removal of the supplier's name from the bid mailing list, without further notice. **NOTE:** To qualify as having responded, bidder/vendor must submit a "NO BID", and it must be received no later than the stated bid opening date and hour.
3. **OBJECTIONS/CHALLENGE:** Should a bidder/vendor have an objection to or challenge the specifications, the bidder/vendor is responsible for making this known in writing so as to reach the City Clerk no later than seven (7) calendar days prior to the bid opening date. The envelope shall be marked in such a way to alert the City Clerk of the urgency in order to immediately notify the Purchasing Division. The envelope will be marked indicating that the content is a challenge to a specified Invitation to Bid. For all challenges considered valid by the Purchasing Supervisor, all vendors on the original mailing list will be provided an addendum which addresses the challenge. Challenges/Objections not considered valid will be so stated to the objecting party.
4. **BID OPENING:** Bid opening occurs at the time specified on the bid form. It is the bidder/vendor's responsibility to assure that the bid is delivered at the proper time and place of the bid opening. Bids, which for any reason are not delivered, will not be considered. Offers by telegram, facsimile or telephone are not acceptable. **NOTE:** Bid files may be examined during normal working hours by appointment, after the date and time of bid opening. Bid tabulations **WILL NOT** be provided by telephone. Bid tabulations will be provided by mail at the written request of the bidder/vendor. Bid and contract documents are the property of the City and are subject to the provisions of the Oklahoma Open Records Act.
5. **WITHDRAWAL OF BID:** Bids may be withdrawn at any time prior to the bid opening date and time. After bids are opened, all bids will be considered firm and valid until award of contract is made.

6. **AWARDS:**

- a. As the best interest of the City may require, the right is reserved to:
 - 1. Award by individual item, group of items, all or none, or a combination thereof.
 - 2. Award based upon a geographical district basis with one or more suppliers.
 - 3. To reject any and all bids or waive any minor irregularity or technicality in bids received.
- b. Bidder/vendors are cautioned to make no assumptions regarding their success on the awarding of any contract unless their bid has been evaluated as being responsive, the contract awarded by City Council, and appropriate documents executed. The City of Lawton reserves the right to add or delete any item from this contract when deemed to be in the City's best interest.

- 7. **ACCEPTANCE OF CONTRACT:** This document constitutes only the bidder/vendor's bid until it is accepted by the City Council for the City of Lawton and is executed by the Mayor and City Clerk on behalf of the City of Lawton.
- 8. **WAIVER:** The City of Lawton reserves the right to waive any General Provisions, Special Provision, or minor specification deviation when considered to be in the best interest of the City.
- 9. **CHANGES TO SPECIFICATIONS:** Bids are to be submitted in accordance with the specifications provided. Any exceptions to the specifications must be indicated in the place provided on the specification page(s) or by separate letter from the bidder/vendor, if a place is not provided in the specifications. Changes in specification reducing the quality, versatility or applicability of the product or service shall cause the rejection of the bid. The City shall make the final determination. Failure to notice the City of the deviation from the specification may cause the bid to be rejected at the discretion of the City.
- 10. **MISTAKES:** Bidder/Vendors are expected to examine the specifications, delivery schedule, bid prices and all instructions pertaining to supplies and services. Failure to do so will be at bidder/vendor's risk. In all cases, the UNIT PRICE WILL GOVERN.
- 11. **INFORMATION:** The bidder/vendor must provide information pertinent to items you are bidding. Complete catalogues are not necessary. If furnished, however, the bidder/vendor must identify the exact location in the catalogue and circle or identify clearly the item being bid.
- 12. **MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS:** Any manufacturers' names, trade name brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. The bidder/vendor may offer any brand for which he is an authorized representative, which meets or exceeds the specification for any item(s). If bids are based on equivalent products, indicate on the bid form the manufacturer's name and model number. Bidder/Vendor shall submit with his proposal sketches, descriptive literature, and/or complete specifications. References to literature submitted with a previous bid will not satisfy this provision. The bidder/vendor shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids, which do not comply with these requirements, are subject to rejection. Bids lacking any written indication of intent to

quote an alternate brand will be received and considered to be in complete compliance with the specifications as listed on the bid form.

13. **SAMPLES:** Samples of items, when called for, must be furnished free of charge and at no expense to the City. Each individual sample must be labeled with bidder/vendor's name, manufacturer's brand name and number, contract number and item reference, or as specified in the attached special conditions. Samples will not be returned.
14. **TESTING:** When testing is required to determine if a sample or an awarded product meets specifications and it is determined that the product fails to meet specifications, the cost of testing shall be borne by the vendor, both on samples and delivered products.
15. **NONCONFORMANCE TO CONTRACT CONDITIONS:** Items may be tested for compliance with specifications by appropriate testing laboratories or by the City. The data derived from any tests for compliance with specifications are public records and open to examination thereto in accordance with Oklahoma Statutes. Items delivered not conforming to specifications will be rejected and returned to the bidder/vendor at the bidder/vendor's expense. Any violation of these stipulations may result in supplier's name being removed from the City of Lawton Purchasing bidder/vendor mailing list, and the City may pursue any and all other remedies available either in equity or by law.
16. **CONDITION AND PACKAGING:** It is understood and agreed that any item offered for shipped as a result of this bid shall be new (current model at the time of the bid). All containers shall be suitable for storage or shipment and all prices shall include standard commercial packaging.
17. **INSPECTION, ACCEPTANCE and TITLE:** Inspection and acceptance will be at the destination unless otherwise provided. "Destination: shall mean delivered to the receiving dock, department stockroom, or other point specified. The City accepts no responsibility for goods until accepted at the receiving point in good condition. Title and risk of loss or damage to all items shall be the responsibility of the bidder/vendor until accepted by the ordering agency. The bidder/vendor shall be responsible for filing, processing and collecting all damage claims. However, to assist him in the expeditious handling of damage claims the ordering department will:
 - a. Record any evidence of visible damage on all copies of the delivering carrier's Bill of Lading.
 - b. Report damage (whether visible or concealed) to the carrier and bidder/vendor, conforming such reports, in writing, within fifteen (15) days of delivery, requesting that the carrier inspects the damaged merchandise.
 - c. Retain the item and it's shipping container including inner packaging material, until inspection is performed by the carrier, and disposition given by the bidder/vendor, or for a reasonable time after notification to the bidder/vendor.
 - d. Provide the bidder/vendor with a copy of the carrier's Bill of Lading and damage inspection report.
18. **SAFETY STANDARDS:** Unless otherwise stipulated in the bid, all manufactured items or fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards thereunder.

19. **SERVICE AND WARRANTY:** Unless otherwise specified, the bidder/vendor shall define any warranty service and replacements that will be provided during and subsequent to this contract. Bidder/Vendors must explain on an attached sheet to what extent warranty and service facilities are provided. Unless otherwise indicated in this agreement, upon acceptance of this contract by the City, bidder/vendor expressly warrants that all articles, materials, supplies, equipment, and/or services covered in this contract will conform to the specification attached hereto and made a part hereof; and further warrants that same shall be good material and workmanship, and free from defects.
20. **REMEDIES:** Failure to make delivery or to meet specifications authorizes the City to seek replacement goods or services elsewhere and to seek legal remedies against the defaulting bidder/vendor. If any of the goods and/or work performed fails to meet the warranties contained herein, bidder/vendor upon notice thereof from the City shall promptly correct or replace the same at bidder/vendor's expense. If bidder/vendor shall fail so to do, the City may cancel this order as to all such goods and in addition, may cancel the remaining balance of this order and pursue all other remedies available. After notice to the bidder/vendor, all such goods will be held at bidder/vendor's risk. The City may and at bidder/vendor's direction shall, return such goods to bidder/vendor at bidder/vendor's risk, and all transportation charges, both to and from original destination, shall be paid by bidder/vendor. Any payment for such goods shall be refunded by bidder/vendor unless bidder/vendor promptly corrects or replaces the same at its expense.
21. **AUTHORIZED USERS:** Bids shall cover requirements during the specified period for all Municipal Departments, Boards, Commissions, Agencies, and Institutions.
22. **LIABILITY:** The bidder/vendor shall hold and save the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned harmless against the claims by third parties resulting from the supplier's breach of this contract or the supplier's negligence.
23. **PRICES AND TERMS:** Unless otherwise provided in the bid specifications, firm fixed prices shall be bid F.O.B Lawton at the indicated department's address and include packing, handling and shipping charges fully prepaid by the vendor. Bid prices shall be valid for a minimum of sixty (60) days from the date of bid opening.
24. **ACCEPTANCE OF PURCHASE ORDERS:** Bidder/vendor are to accept only those purchase orders issued by the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned, prepared on Accounting Division Forms unless instructed otherwise in the invitation to bid or executed contract agreement.
25. **PRICE ADJUSTMENTS:** Manufacturer's price increases, or other increases in the cost of doing business MAY NOT be passed on to the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned, nor may the vendor withdraw or cancel the proposal, or any resulting agreement, or any part of the proposal or agreement for these reasons. Vendors may only cancel the contract, pursuant to the cancellation clause, if one is included as a part of the Invitation to Bid, and then only if the contractual obligation has been fulfilled by the bidder/vendor in accordance with the terms stated. Bids which reflect that the price of an item is based upon "market price" or is "subject to increase" based upon some event, or otherwise indicates that prices reflected are infirm or subject to change will be deemed non-conforming unless the bid specifications specifically provide for price escalation.

26. **SUMMARY OF TOTAL SALES:** The bidder/vendor agrees to furnish City of Lawton Purchasing Division a summary of sales, including total dollar amount, made under the contract at the end of each quarter, or as stipulated in the attached special conditions.
27. **PAYMENT:**
- a. **INVOICING:** The vendor shall be paid within a reasonable time after submission of proper certified invoices to the City at the prices stipulated on the contract. Invoices shall contain the contract number and purchase order number. Failure to follow these instructions may result in delay of processing invoices for payment. The Company or Corporation bidding shall be the only office authorized to receive orders, do the billing and invoicing and receive payment. If the bidder/vendor wishes to ship or service from a point other than the home office he will furnish a list of these locations. HOWEVER, NO ORDERS WILL BE PRESENTED TO, BILLING WILL NOT BE DONE FROM NOR WILL PAYMENT BE MADE TO THESE LOCATIONS.
 - b. **REQUIREMENTS ONLY PURCHASES:** The proposed Contract shall be for the quantities actually ordered during the life of the contract only. UNLESS OTHERWISE SPECIFIED, ALL CONTACTS ARE REQUIREMTNS-TYPE CONTRACT, meaning that quantities indicated are only estimates of those actually needed, and actual quantities may be greater or less than those indicated. Billing shall be made in accordance with instructions by department or division issuing the purchase order, and only for quantities actually ordered and delivered. The City does not promise to purchase the quantity shown. The City reserves the right to purchase none of the product or more than shown.
 - c. **Taxes:** Purchases by the City of Lawton are not subject to any Sales Tax or Federal Excise Tax. Exemption Certificates will be furnished upon request.
 - d. **Discounts:** Bidder/Vendors may offer a cash discount for prompt payment; however, such discounts shall not be considered in determining the lowest net cost for bid evaluation purposes. Bidder/Vendors are encouraged to reflect cash discounts in the unit prices quoted. Discount time will be computed from the date of satisfactory delivery at place of acceptance or from receipt of correct invoice at the office specified, whichever is later.
 - e. All provisions of the Uniform Commercial Code shall be adhered to.
28. **EXTENSION:** At the end of the contract period, or upon the conclusion of a maximum of one (1) extension thereof, the contract may be extended for a period not to exceed twelve (12) months at the same price and conditions as in the original contract, by mutual agreement between the City and the bidder/vendor. The extended contract shall, upon the signing by both parties, become a binding agreement and shall remain in force and effect until terminated by either party, provided that either party to the contract shall have the option to terminate said extended contract upon thirty days' prior written notice of termination by one party to the other.
29. **CONFLICT OF INTEREST:** The Invitation to Bid hereunder is subject to the provisions of City of Lawton Charter and City Code. All bidder/vendors must disclose with the bid the name of any officer, director or agent who is also an employee of the City of Lawton or any of its agencies or subdivisions. Further, all bidder/vendors must disclose the name of any City employee who owns, directly or indirectly, an interest of five percent (5%) or more in the bidder/vendor's firm or any of its branches.

30. **PATENTS AND ROYALTIES:** The bidder/vendor, without exception, shall indemnify and save harmless the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract including its use by the City of Lawton. If the bidder/vendor uses any design, device or materials covered by letters, patent copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or cost rising from the use of such design, device, or materials in any way involved in the work.
31. **FACILITIES:** The City reserves the right to inspect the bidder/vendor's facilities at any time with reasonable prior notice.
32. **BANKRUPTCY:** If the bidder/vendor becomes bankrupt or insolvent, or if a petition in bankruptcy is filed against the bidder/vendor, or if a receiver is appointed for the bidder/vendor, the City shall have the right to terminate this contract upon written notice to the bidder/vendor without prejudice to any claim for damages or any other right of the City under this contract at the time of such termination.
33. **ASSIGNMENT:** This contract shall not be assigned by the bidder/vendor without written consent of the City.
34. **INSURANCE:** If insurance is required in the specifications to this agreement, unless otherwise specifically stated, proof of the following types and amounts shall be furnished to the City, showing the City as an additional insured thereunder without cost to the City of Lawton, prior to the awarding of the contract:
- a. **General Liability:** The bidder/vendor shall procure and maintain in full force and effect, for the term of the Contract, a policy or policies under a comprehensive form as required by state law. In addition, the bidder/vendor shall have, during the term of the Contract, insurance in the minimum amount of twenty-five thousand dollars (\$25,000) property damages, arising from a single occurrence. One hundred twenty-five thousand dollars (\$125,000) for personal injuries arising from a single occurrence, and one million dollars (\$1,000,000) for any number claims arising out of a single occurrence or accident. This policy or policies shall hold harmless and indemnify the City of Lawton its department boards, commissions, agencies, institutions and all employees of the aforementioned. A current certificate showing that the bidder/vendor has in force and effect such insurance shall be maintained on file with the City Clerk of the City.
 - b. **Automobile Liability:** The bidder/vendor shall procure and maintain in full force and effect, for the term of the Contract, vehicle liability coverage in the amounts specified in subparagraph A of this section. In addition, the bidder/vendor shall have, during the term of the Contract, vehicle liability coverage as outlined in the attached specifications. If higher coverage is required by any regulatory entity with oversight of the bidder/vendor's business, the City Code, or other authority, then proof of the higher coverage must be provided. This policy or policies shall hold harmless and indemnify the City of Lawton, its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned. A current certificate showing that the bidder/vendor has a place shall be maintained on the file with the City Clerk of the City.

- c. **Worker's Compensation:** The bidder/vendor shall procure and maintain in full force and effect for the period of the Contract, full workers' compensation insurance in accordance with the laws of the State of Oklahoma to protect himself and the City against liability under the workers' compensation and occupational disease statutes of the State of Oklahoma. A current certificate showing that the bidder/vendor has in force and effect the aforesaid insurance or a current certificate showing exemption from the requirement shall be maintained on file with the City Clerk of the City.
35. **BONDS:** Neither Bidder's Bonds or Performance Bonds are required unless specifically set forth in the specifications attached hereto. If Bonds are required, the same shall be held under the following requirements and specifications unless otherwise indicated:
- a. **Bidder's Bonds:** If required as a part of the specifications on this contract, bids filed with the Municipal Clerk must be accompanied by a Bidder's Bond, certified check or cashier's check in the amount state made payable to the City of Lawton. This amount will be retained by the City as damages in the event successful bidder/vendor fails to comply with the terms of this agreement, but shall in no way act as a remedy or limitation on damages available to the City, which may pursue any and all other remedies available either in equity or at law. All Deposits and Bonds will be returned to the unsuccessful bidder/vendor's within a reasonable time after the contract has been awarded, and to the successful bidder/vendor upon full performance of the contract. Bonds or funds deposited do not accrue interest while held.
- b. **Performance Bonds:** If a performance Bond is required under the specifications of this agreement, the successful bidder/vendor must, prior to the award of the contract, post the bond, certified check or cashiers ck in the amount stated made payable to the City of Lawton. The Bidder's bond posted will be returned to the successful bidder/vendor upon posting of the Performance Bond and completion of any additional requirements for execution of the contract by the bidder/vendor. The performance bond will be released or returned to the bidder/vendor, as appropriate, after satisfactory completion of the contract and the performance period as stated in the specifications attached or any amendments thereto.
36. **TIME OF ESSENCE:** Unless otherwise stated time shall be considered of the essence to this agreement.
- a. Bidder/vendor specifically agrees that it shall be liable for failure to deliver or delay in delivery occasioned by and including, without limitations, strikes, lockouts, inability of obtaining material or shipping space, breakdowns, delays of carrier's or suppliers, and pre-existing governmental regulations of the federal and state government or any subdivisions thereof, unless governmental acts and regulations affecting delivery could not be found, recognized, or discovered by due diligence on the part of the bidder/vendor prior to submission of his bid and the City Council's acceptance thereof.
- b. When time is not of the essence this contract shall be inoperative during such period of time that aforesaid delivery or acceptance may be rendered impossible by reason of fire, strike, Acts of God, or government regulation. Provided, however, to the extent that the bidder/vendor has any commercially reasonable alternative method of performing his contract by purchase on the market or otherwise, he shall not be freed of his obligation hereunder by this clause.

37. **DISCRIMINATION:** Bidder/vendor agrees, in connection with the performance of work under this contract, as follows:
- a. Bidder/Vendor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin, ancestry, or physical or mental impairment. The bidder/vendor shall take affirmative action to insure that employees are treated without regard to their race, creed, color, sex, national origin, ancestry or physical or mental impairment. Such actions shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruiting or recruitment, advertising, lay-off, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship. The bidder/vendor agrees to post in a conspicuous place available to employees and applicants for employment, notices setting forth provisions of this section.
 - b. The bidder/vendor agrees to include this non-discrimination clause in any subcontract connected with the performance under this contract.
 - c. In the event of the bidder/vendor's non-compliance with the above nondiscrimination clause, this contract may be terminated by the City. The bidder/vendor may be declared by the City ineligible for further contracts with the City until satisfactory proof of intent to comply is made by the bidder/vendor.
38. **DISTRIBUTION OF CONTRACT:** One (1) copy of the contract or award letter shall be furnished to each successful bidder/vendor as a result of this bid. It shall be the bidder/vendor's responsibility to reproduce and distribute copies of the contract to all distribution points listed in this bid whom will accept orders and complete deliveries. No additions, deletions or changes of any kind shall be made to this contract by the bidder/vendor.
39. **ADVERTISING:** In submitting a proposal, bidder/vendor agrees not to use the results therefrom as a part of any commercial advertising.
40. **TERMINATION FOR CONVENIENCE OF THE CITY:**
- a. The performance of work and/or delivery of ordered materials, supplies, equipment, and/or services under this contract may be terminated by the City, in whole or in part, whenever it is determined to be in the best interest of the City.
 - b. Any such termination shall be effected by the delivery to the bidder/vendor of a notice of termination specifying the extent to which performance of work and/or delivery of ordered materials, supplies, equipment, and/or services are terminated, and the date upon which such termination becomes effective.
 - c. After receipt of a notice of termination, the bidder/vendor shall stop work and/or place no further orders under the contract on the date and to the extent specified in the notice of termination.
41. **VENUE:** This contract shall be governed by the laws of the State of Oklahoma.
42. **OKLAHOMA STATE CONTRACT:** Some items which the City solicits bids for are on the Oklahoma State Contract. The City is eligible to purchase from the State Contract and will

check the prices on the State Contract and may elect to purchase under that contract without termination of this agreement.

43. **INTEGRATED AGREEMENT:** This writing, with the attachments hereto, and any associated purchase orders constitute the entire agreement of the parties. No separate promises or agreements have been made other than those contained herein. This agreement may not be modified except in writing signed by both parties.
44. **ENERGY SAVINGS:** Oklahoma is an energy conservation State and we welcome any comments on your bid that would indicate energy savings. Energy savings will be considered on all bids where specifications call for Life Cycle Cost Analysis.

AFFIDAVIT FOR PAYMENTS IN EXCESS OF \$25,000.00
CITY OF LAWTON, STATE OF OKLAHOMA

STATE OF Texas

COUNTY OF Dallas

SS

The undersigned (architect, contractor, supplier or engineer), of lawful age, being first duly sworn, on oath says that this contract is true and correct. Affiant further states that the (work, services or materials) will be (completed or supplied) in accordance with the plans, specifications, orders or requests furnished the affiant. Affiant further states that (s) he has made no payment directly or indirectly to any elected official, officer or employee of the City of Lawton, any county or local subdivision of the state, of money or any other thing of value to obtain or procure the contract or purchase order.

Chameleon Industries Inc.

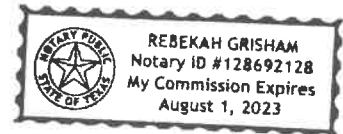
Business Name / Contractor Name

Signed [Signature]
Print: Jason L. Garza

Attested to before me this 23rd day of August 2021.

[Signature]
Notary Public

My Commission Expires 8/1 2023



NOTE: Copy of this Affidavit must be attached to any invoice submitted by an architect, contractor, or engineer or supplier for work, services, or materials completed or supplied under the terms of the contract or contracts in excess of \$25,000.00.

CITY OF LAWTON SPECIFICATION

SPECIFICATION NUMBER: M-127

SPECIFICATION TITLE: Aluminum Sulfate, Liquid

APPROVAL DATE: 10/15/03

DELIVERY: City of Lawton Water Treatment Plant, Medicine Park, Ok 73557

a. Item(s) shall be delivered, FOB, to the address shown above.

WARRANTY: None

DISCLAIMER: The City of Lawton reserves the right to accept or reject any or all bids.

DESCRIPTION:

- a. The following specifications are the **minimum** acceptable standards for the item(s) shown above.
- b. Any deviation from these specifications must be clearly annotated by the Bidder by checking either Y or N and on a separate page list the specification reference and detailing the deviation.
- c. Failure to annotate deviations may cause bid to be deemed as non-responsive.

ALUMINUM SULFATE, LIQUID

Quantity: Delivery must be shipped bulk approximately 4,500 gallons per load.

COMPLY

- | | | |
|--|--------------------------|-----------------|
| 1). Total soluble Al ₂ O ₃ 3% | Minimum 8.0- Maximum 8.3 | Y <u>X</u> N___ |
| 2). Total soluble Iron as Fe ₂ O ₃ % | <0.02 | Y <u>X</u> N___ |
| 3). Water insolubles, % | 0.02 Max | Y <u>X</u> N___ |
- 4). Vendor to supply security information 24 hours prior to delivery. i.e.
(Drivers name, license number, picture, trailer number and hatch seal number.)
 - 5). Vendor to supply certified weight certificate at time of delivery. Payment shall be made only for the weight of product delivered.
 - 6). Vendor must supply certificate of analysis for each load to include total manganese and iron content.
 - 7). Vendor to state delivery time. This information will be used as criteria in bid evaluation.

- 8). Liquid Alum must comply with AWWA Standard B403-98. Vendor must supply a current and complete material safety data sheet (MSDS) before their first delivery.
- 9). Product acceptability shall be established under the applicable ANSI/NSF Standard (60 or 61) and must be certified as suitable for contact with or treatment of drinking water.
- 10). The Vendor's agent (truck driver) shall provide samples for the plant operator according to AWWA standard B403-98. Plant operator will provide sample containers.
- 11). The City shall retain one sample from each shipment. The sample will be held until the next shipment of product is received. The vendor agrees the content of this sample fairly represents the quality of the product delivered in that shipment.

Bid Number: CL20-028

Bid Title: Liquid Aluminum Sulfate

Vendor Name: Chameleon Industries Inc.

(please complete above information)

Price Bid

(must be completed and returned with the bid)

Item	Description	Est Qty	Unit	Unit Price
1	Liquid Aluminum Sulfate	536,637	Gal	\$ 1.13

Any questions in regards to the attached specifications should be addressed to David Hastings, Water Treatment Plant Superintendent, at (580) 512-7884 or David.hastings@lawtonok.gov.

Notes:

1. As per accompanying specifications.
2. This is a requirements contract.
3. There are no insurance requirements for this contract.
4. Please submit two copies of any additional documents such as descriptive literature.



Aluminum Sulfate, Solution (Alum)



Safety Data Sheet



SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminum Sulfate, Solution
Other Name(s): Alum
Chemical Family: Inorganic, salt
Recommended Use: Water treatment coagulant/flocculent, papermaking pH control
Manufacturer: Chameleon Industries, Inc.
P.O. Box 853027
Mesquite, TX 75185
More Information: *Customer Service:* 972.880.1493 (Monday-Friday, 8:00am-5:00pm)
Email: info@chameleonindustriesinc.com
Emergency: call CHEMTREC, 1.800.424.9300 (24hr/day, 7 days/week)

SECTION 2 – HAZARDS IDENTIFICATION

Classification: Skin Irritant 2, Eye Irritant 2A, Corrosion 1
Signal Word: Warning
Hazard Statement: Causes severe skin burns and eye damage (H314). May be corrosive to metals (H290). Harmful to aquatic life (H402).
Symbol(s): Harmful (GHS07), Corrosion (GHS05)  
Precautionary Statements:
Prevention: Keep only in original container (P234). Do not breathe vapors, mist, or spray (P260). Wash hands, forearms, and exposed areas thoroughly after handling (P264). Avoid release to the environment (P273). Wear eye & face protection; protective clothing and gloves (P280).
Response: IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301,P330,P331). IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower (P303,P361,P353). IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing (P304,P340). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305,P351,P338). IF IRRITATION PERSISTS: Immediately call a POISON CENTER or doctor (P310). Absorb spillage to prevent material damage (P390).
Storage: Store locked up (P405). Store in corrosive resistant containers such as polypropylene, polyethylene, PVC, or 316 SS (P406).
Disposal: Dispose of contents/container in accordance with applicable regulations. May constitute hazardous waste if pH is less than 2 (P501).
Other Hazards: Ingestion or inhalation not recommended and could present hazards not otherwise classified.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight Percent
Water	7732-18-5	50-52%
Aluminum Sulfate	10043-01-3	48-50%

SECTION 4 – FIRST AID MEASURES

Eye Contact:	Immediately flush eyes for at least 30 minutes. Remove contact lenses if worn. Get medical attention if irritation persists.
Skin Contact:	Wash skin with soap and water. Remove contaminated clothing and shoes. If irritation develops, get medical attention.
Inhalation:	If adverse effects occur, relocate to fresh air. Give artificial respiration if not breathing. If difficulty breathing, give oxygen and get medical attention.
Ingestion:	Do not induce vomiting. Consume large quantities of water. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Properties:	Negligible fire hazard. Not flammable.
Extinguishable Media:	No unsuitable extinguishing media known.
Explosion Limits:	
Impact Sensitivity:	Not sensitive
Static Discharge Sensitivity:	Not sensitive
Protective Equip & Precaution:	Wear self-contained breathing apparatus (SCBA) and full protective equipment. Poisonous gases may be produced in fire (aluminum and sulfur oxides). Use water spray to keep containers cool.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Other Release:	Stop leak if possible without personal risk. Dilute small spills or leaks cautiously with water. Large spills should be absorbed with sand, soda ash, or limestone. Adequate ventilation is required if soda ash or limestone is used, due to consequent release of carbon dioxide gas. Dispose of residue in accordance with applicable regulations.
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SECTION 7 – HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling.
Storage:	Keep container tightly sealed when not in use. Store in cool, dry, well ventilated areas. Keep separated from incompatible substances.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits:	Aluminum Sulfate - 2mg/m ³ (ACGIH TLV and OSHA PEL)
Ventilation:	Provide local exhaust to keep airborne concentrations below exposure limits
Personal Protective Equipment:	
Eyes/Face:	Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the work area.
Skin:	Wear appropriate chemical resistant clothing and gloves. If prolonged or repeated contact is anticipated, all clothing should be impervious to liquid.
Respiratory:	If workplace conditions warrant respirator use a respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or federal requirement.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless, light green or light amber liquid
Physical State:	Liquid
Odor:	Negligible odor
Chemical Formula:	~48.5% $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$ in water
pH:	1.8 – 2.5
Specific Gravity:	1.31 – 1.34
Viscosity:	25cps @ 68°F / 20°C
Density:	11.1 lb/gal
Flash Point:	Not applicable
Boiling Point:	228°F / 109°
Melting Point:	9°F / -13°C
Flammability:	Not applicable
Autoignition Temperature:	Not applicable
Decomposition Temperature:	1400°F
Explosive Limits:	No information available
Evaporation Rate:	Not determined
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
%VOC:	0.0
Molecular Weight:	594 for $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$
Water Solubility:	Complete (100%)

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Incompatible Products:	Alkalis and water reactive materials cause violent exothermic reactions. Metals may be corrosive in the presence of moisture.
Hazardous Decomposition Products:	Thermal oxidative decomposition occurs at temperatures greater than 1400°F and can produce sulfur oxides. These are toxic, corrosive, and act as oxidizers.
Possibility of Hazardous Reactions:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity:	The acute oral LD50 is greater than 5,000 mg/kg.
Chronic Toxicity:	The acute oral LD50 is greater than 5,000 mg/kg.
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Carcinogenicity:	Not listed as a carcinogen by NTP, IARC, or OSHA.
Other Possible Health Hazards:	The common recognized injury from Aluminum Sulfate is local tissue irritation. The irritating action is often from hydrolysis to form sulfuric acid and may occur from ingestion, skin or eye contact, or inhalation of dusts and mists. Remove victim from contaminated area.
Eye & Skin:	May cause corneal burns or severe irritation in eyes. Fumes or mists may cause irritation or burns to skin.
Ingestion:	Oral and gastrointestinal irritation. Local tissue damage. Nausea, vomiting, diarrhea, and gastrointestinal bleeding may follow. Can be fatal if swallowed in sufficient quantities

SECTION 11 – TOXICOLOGICAL INFORMATION (cont.)

Inhalation: Irritation of the respiratory system. Long term exposure may cause bronchial irritation, coughing, and bronchial pneumonia. Medical conditions generally aggravated are acute and chronic respiratory diseases.

Routes of Entry: Ingestion, skin or eye contact, or inhalation of dusts and mists.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None of the material components are known to be hazardous to the environment or not degradable in waste water treatment plants.

Aquatic Toxicity - Freshwater Fish: Aluminum Sulfate, LC50 – 100mg/L, Carassius auratus 96hr

Aluminum Sulfate, LC50 – 37mg/L, Gambusia affinis 96hr

Invertebrate: Aluminum Sulfate, EC50 – 136mg/L, Daphnia magna 15min

Freshwater Algae: No data available.

Persistence and Degradability: Can be eliminated from water by precipitation or flocculation

Bioaccumulation: No data available.

Mobility in Environmental Media: No data available.

Other Adverse Effects: Aluminum Sulfate, 14ppm, Freshwater Fundulus 36hr
Aluminum Sulfate, 235ppm, Mosquito fish 96hr
Aluminum Sulfate, 250ppm, Largemouth Bass 96

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of waste in accordance with all federal, state, and local regulations.

Component Waste Numbers: The U.S. EPA has not published waste numbers for this product's components.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal

SECTION 14 – TRANSPORT INFORMATION

US DOT & TDG - Shipping Name: Environmentally Hazardous Substance, liquid, n.o.s. (contains Aluminum Sulfate)

Hazard Class: 9

UN No.: UN3082

Packing Group: PGIII

SECTION 15 – REGULATORY INFORMATION

U.S. Federal Regulations: Material (10043-01-3) contains one or more chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

SARA 311/312:	Immediate	Delayed	Fire	Pressure	Reactivity
	Yes	No	No	No	No

NFPA: Health: 1
Flammability: 0
Instability: 1



SECTION 16 - OTHER INFORMATION

Current Issue Date:	1 August 2020
Previous Issue Date:	1 January 2018
Revision Summary:	No Substantive Update

Disclaimer: All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Chameleon Industries Inc. is not engaged in the business of providing technical, operational, engineering or safety information for a fee, and, therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry. Chameleon Industries Inc. shall not be responsible or liable for the use, application or implementation of the information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents. This SDS is to be utilized solely as a reference document and it is not to be used to satisfy the distribution requirements of OSHA's Hazard Communication nor Canada's Controlled product Regulation.

END OF SAFETY DATA SHEET



Aluminum Sulfate, Solution (Alum)



Safety Data Sheet



SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminum Sulfate, Solution
Other Name(s): Alum
Chemical Family: Inorganic, salt
Recommended Use: Water treatment coagulant/flocculent, papermaking pH control
Manufacturer: Chameleon Industries, Inc.
P.O. Box 853027
Mesquite, TX 75185
More Information: *Customer Service:* 972.880.1493 (Monday-Friday, 8:00am-5:00pm)
Email: info@chameleonindustriesinc.com
Emergency: call CHEMTREC, 1.800.424.9300 (24hr/day, 7 days/week)

SECTION 2 – HAZARDS IDENTIFICATION

Classification: Skin Irritant 2, Eye Irritant 2A, Corrosion 1
Signal Word: Warning
Hazard Statement: Causes severe skin burns and eye damage (H314). May be corrosive to metals (H290). Harmful to aquatic life (H402).
Symbol(s): Harmful (GHS07), Corrosion (GHS05)  
Precautionary Statements:
Prevention: Keep only in original container (P234). Do not breathe vapors, mist, or spray (P260). Wash hands, forearms, and exposed areas thoroughly after handling (P264). Avoid release to the environment (P273). Wear eye & face protection; protective clothing and gloves (P280).
Response: IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301,P330,P331). IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower (P303,P361,P353). IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing (P304,P340). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305,P351,P338). IF IRRITATION PERSISTS: Immediately call a POISON CENTER or doctor (P310). Absorb spillage to prevent material damage (P390).
Storage: Store locked up (P405). Store in corrosive resistant containers such as polypropylene, polyethylene, PVC, or 316 SS (P406).
Disposal: Dispose of contents/container in accordance with applicable regulations. May constitute hazardous waste if pH is less than 2 (P501).
Other Hazards: Ingestion or inhalation not recommended and could present hazards not otherwise classified.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight Percent
Water	7732-18-5	50-52%
Aluminum Sulfate	10043-01-3	48-50%

SECTION 4 – FIRST AID MEASURES

Eye Contact:	Immediately flush eyes for at least 30 minutes. Remove contact lenses if worn. Get medical attention if irritation persists.
Skin Contact:	Wash skin with soap and water. Remove contaminated clothing and shoes. If irritation develops, get medical attention.
Inhalation:	If adverse effects occur, relocate to fresh air. Give artificial respiration if not breathing. If difficulty breathing, give oxygen and get medical attention.
Ingestion:	Do not induce vomiting. Consume large quantities of water. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Properties:	Negligible fire hazard. Not flammable.
Extinguishable Media:	No unsuitable extinguishing media known.
Explosion Limits:	
Impact Sensitivity:	Not sensitive
Static Discharge Sensitivity:	Not sensitive
Protective Equip & Precaution:	Wear self-contained breathing apparatus (SCBA) and full protective equipment. Poisonous gases may be produced in fire (aluminum and sulfur oxides). Use water spray to keep containers cool.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Other Release:	Stop leak if possible without personal risk. Dilute small spills or leaks cautiously with water. Large spills should be absorbed with sand, soda ash, or limestone. Adequate ventilation is required if soda ash or limestone is used, due to consequent release of carbon dioxide gas. Dispose of residue in accordance with applicable regulations.
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SECTION 7 – HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling.
Storage:	Keep container tightly sealed when not in use. Store in cool, dry, well ventilated areas. Keep separated from incompatible substances.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits:	Aluminum Sulfate - 2mg/m ³ (ACGIH TLV and OSHA PEL)
Ventilation:	Provide local exhaust to keep airborne concentrations below exposure limits
Personal Protective Equipment:	
Eyes/Face:	Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the work area.
Skin:	Wear appropriate chemical resistant clothing and gloves. If prolonged or repeated contact is anticipated, all clothing should be impervious to liquid.
Respiratory:	If workplace conditions warrant respirator use a respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or federal requirement.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless, light green or light amber liquid
Physical State:	Liquid
Odor:	Negligible odor
Chemical Formula:	~48.5% $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$ in water
pH:	1.8 – 2.5
Specific Gravity:	1.31 – 1.34
Viscosity:	25cps @ 68°F / 20°C
Density:	11.1 lb/gal
Flash Point:	Not applicable
Boiling Point:	228°F / 109°
Melting Point:	9°F / -13°C
Flammability:	Not applicable
Autoignition Temperature:	Not applicable
Decomposition Temperature:	1400°F
Explosive Limits:	No information available
Evaporation Rate:	Not determined
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
%VOC:	0.0
Molecular Weight:	594 for $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$
Water Solubility:	Complete (100%)

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Incompatible Products:	Alkalis and water reactive materials cause violent exothermic reactions. Metals may be corrosive in the presence of moisture.
Hazardous Decomposition Products:	Thermal oxidative decomposition occurs at temperatures greater than 1400°F and can produce sulfur oxides. These are toxic, corrosive, and act as oxidizers.
Possibility of Hazardous Reactions:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity:	The acute oral LD50 is greater than 5,000 mg/kg.
Chronic Toxicity:	The acute oral LD50 is greater than 5,000 mg/kg.
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Carcinogenicity:	Not listed as a carcinogen by NTP, IARC, or OSHA.
Other Possible Health Hazards:	The common recognized injury from Aluminum Sulfate is local tissue irritation. The irritating action is often from hydrolysis to form sulfuric acid and may occur from ingestion, skin or eye contact, or inhalation of dusts and mists. Remove victim from contaminated area.
Eye & Skin:	May cause corneal burns or severe irritation in eyes. Fumes or mists may cause irritation or burns to skin.
Ingestion:	Oral and gastrointestinal irritation. Local tissue damage. Nausea, vomiting, diarrhea, and gastrointestinal bleeding may follow. Can be fatal if swallowed in sufficient quantities

SECTION 11 – TOXICOLOGICAL INFORMATION (cont.)

Inhalation: Irritation of the respiratory system. Long term exposure may cause bronchial irritation, coughing, and bronchial pneumonia. Medical conditions generally aggravated are acute and chronic respiratory diseases.

Routes of Entry: Ingestion, skin or eye contact, or inhalation of dusts and mists.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None of the material components are known to be hazardous to the environment or not degradable in waste water treatment plants.

Aquatic Toxicity - Freshwater Fish: Aluminum Sulfate, LC50 – 100mg/L, Carassius auratus 96hr
Aluminum Sulfate, LC50 – 37mg/L, Gambusia affinis 96hr

Invertebrate: Aluminum Sulfate, EC50 – 136mg/L, Daphnia magna 15min

Freshwater Algae: No data available.

Persistence and Degradability: Can be eliminated from water by precipitation or flocculation

Bioaccumulation: No data available.

Mobility in Environmental Media: No data available.

Other Adverse Effects: Aluminum Sulfate, 14ppm, Freshwater Fundulus 36hr
Aluminum Sulfate, 235ppm, Mosquito fish 96hr
Aluminum Sulfate, 250ppm, Largemouth Bass 96

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of waste in accordance with all federal, state, and local regulations.

Component Waste Numbers: The U.S. EPA has not published waste numbers for this product's components.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal

SECTION 14 – TRANSPORT INFORMATION

US DOT & TDG - Shipping Name: Environmentally Hazardous Substance, liquid, n.o.s. (contains Aluminum Sulfate)

Hazard Class: 9

UN No.: UN3082

Packing Group: PGIII

SECTION 15 – REGULATORY INFORMATION

U.S. Federal Regulations: Material (10043-01-3) contains one or more chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

SARA 311/312:

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

NFPA:

Health: 1
Flammability: 0
Instability: 1



SECTION 16 – OTHER INFORMATION

Current Issue Date:	1 August 2020
Previous Issue Date:	1 January 2018
Revision Summary:	No Substantive Update

Disclaimer: All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as “information”) are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Chameleon Industries Inc. is not engaged in the business of providing technical, operational, engineering or safety information for a fee, and, therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry. Chameleon Industries Inc. shall not be responsible or liable for the use, application or implementation of the information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents. This SDS is to be utilized solely as a reference document and it is not to be used to satisfy the distribution requirements of OSHA’s Hazard Communication nor Canada’s Controlled product Regulation.

END OF SAFETY DATA SHEET

**FDPH.MH28311**
Drinking Water Treatment Chemicals[Page Bottom](#)**Drinking Water Treatment Chemicals**[See General Information for Drinking Water Treatment Chemicals](#)**CHAMELEON INDUSTRIES INC**
PO BOX 853027
MESQUITE, TX 75185 USA

MH28311

NSF/ANSI 60

Plant at: Corsicana, TX

Trade Dsg	Category	Max Use Level (mg/L)
Aluminum Sulfate [*Al]		
Alum	Coagulation and Flocculation Products	150
Alum C [*Cu]	Coagulation and Flocculation Products	150
Aluminum Sulfate "C" [*Cu]	Coagulation and Flocculation Products	150
CI 3002	Coagulation and Flocculation Products	140
CI 3007	Coagulation and Flocculation Products	140
CI 3102	Coagulation and Flocculation Products	140
CI 3103	Coagulation and Flocculation Products	140
CI 3107	Coagulation and Flocculation Products	140
CI 3108	Coagulation and Flocculation Products	140
CI 3203	Coagulation and Flocculation Products	140
CI 3204	Coagulation and Flocculation Products	140
CI 3208	Coagulation and Flocculation Products	140
CI 3209	Coagulation and Flocculation Products	140
CI 3302	Coagulation and Flocculation Products	140
CI 3304	Coagulation and Flocculation Products	140
CI 3307	Coagulation and Flocculation Products	140
CI 3309	Coagulation and Flocculation Products	140
CI 3403	Coagulation and Flocculation Products	140
CI 3404	Coagulation and Flocculation Products	140
CI 3408	Coagulation and Flocculation Products	140
CI 3409	Coagulation and Flocculation Products	140
CI 3502	Coagulation and Flocculation Products	140
CI 3503	Coagulation and Flocculation Products	140

CI 3504	Coagulation and Flocculation Products	140
CI 3507	Coagulation and Flocculation Products	140
CI 3508	Coagulation and Flocculation Products	140
CI 3509	Coagulation and Flocculation Products	140
CI 3707	Coagulation and Flocculation Products	50
CI 3708	Coagulation and Flocculation Products	50
CI 3709	Coagulation and Flocculation Products	50
CI 3727	Coagulation and Flocculation Products	50
CI 3728	Coagulation and Flocculation Products	50
CI 3729	Coagulation and Flocculation Products	50
CI 3747	Coagulation and Flocculation Products	50
CI 3748	Coagulation and Flocculation Products	50
CI 3749	Coagulation and Flocculation Products	50
CI 3767	Coagulation and Flocculation Products	50
CI 3768	Coagulation and Flocculation Products	50
CI 3769	Coagulation and Flocculation Products	50
CI 4707	Coagulation and Flocculation Products	50
CI 4708	Coagulation and Flocculation Products	50
CI 4709	Coagulation and Flocculation Products	50
CI 4727	Coagulation and Flocculation Products	150
CI 4728	Coagulation and Flocculation Products	50
CI 4729	Coagulation and Flocculation Products	50
CI 4747	Coagulation and Flocculation Products	50
CI 4748	Coagulation and Flocculation Products	50
CI 4749	Coagulation and Flocculation Products	50
CI 4767	Coagulation and Flocculation Products	50
CI 4768	Coagulation and Flocculation Products	50
CI 4769	Coagulation and Flocculation Products	50
CI 5707	Coagulation and Flocculation Products	50
CI 5708	Coagulation and Flocculation Products	50
CI 5709	Coagulation and Flocculation Products	50
CI 5727	Coagulation and Flocculation Products	100
CI 5728	Coagulation and Flocculation Products	50
CI 5729	Coagulation and Flocculation Products	50
CI 5747	Coagulation and Flocculation Products	50
CI 5748	Coagulation and Flocculation Products	50
CI 5749	Coagulation and Flocculation Products	50
CI 5767	Coagulation and Flocculation Products	50
CI 5768	Coagulation and Flocculation Products	50
CI 5769	Coagulation and Flocculation Products	50

Sulfuric Acid	Coagulation and Flocculation Products	150
Liquid Ammonium Sulfate	Disinfection and Oxidation	62.5

Plant at: Odessa, TX

Trade Dsg	Category	Max Use Level (mg/L)
Aluminum Sulfate [*Al]		
Alum	Coagulation and Flocculation Products	150
Alum C [*Cu]	Coagulation and Flocculation Products	150
Aluminum Sulfate "C" [*Cu]	Coagulation and Flocculation Products	150
CI 3002	Coagulation and Flocculation Products	140
CI 3007	Coagulation and Flocculation Products	140
CI 3102	Coagulation and Flocculation Products	140
CI 3103	Coagulation and Flocculation Products	140
CI 3107	Coagulation and Flocculation Products	140
CI 3108	Coagulation and Flocculation Products	140
CI 3203	Coagulation and Flocculation Products	140
CI 3204	Coagulation and Flocculation Products	140
CI 3208	Coagulation and Flocculation Products	140
CI 3209	Coagulation and Flocculation Products	140
CI 3302	Coagulation and Flocculation Products	140
CI 3304	Coagulation and Flocculation Products	140
CI 3307	Coagulation and Flocculation Products	140
CI 3309	Coagulation and Flocculation Products	140
CI 3403	Coagulation and Flocculation Products	140
CI 3404	Coagulation and Flocculation Products	140
CI 3408	Coagulation and Flocculation Products	140
CI 3409	Coagulation and Flocculation Products	140
CI 3502	Coagulation and Flocculation Products	140
CI 3503	Coagulation and Flocculation Products	140
CI 3504	Coagulation and Flocculation Products	140
CI 3507	Coagulation and Flocculation Products	140
CI 3508	Coagulation and Flocculation Products	140
CI 3509	Coagulation and Flocculation Products	140
CI 3707	Coagulation and Flocculation Products	50
CI 3708	Coagulation and Flocculation Products	50
CI 3709	Coagulation and Flocculation Products	50
CI 3727	Coagulation and Flocculation Products	50
CI 3728	Coagulation and Flocculation Products	50
CI 3729	Coagulation and Flocculation Products	50
CI 3747	Coagulation and Flocculation Products	50

CI 3748	Coagulation and Flocculation Products	50
CI 3749	Coagulation and Flocculation Products	50
CI 3767	Coagulation and Flocculation Products	50
CI 3768	Coagulation and Flocculation Products	50
CI 3769	Coagulation and Flocculation Products	50
Liquid Ammonium Sulfate	Disinfection and Oxidation	62.5

[*Al] - The finished drinking water shall be monitored to verify that the level of aluminum does not exceed 2 mg/L.

[*Cu] - This chemical contains copper and can increase the amount of copper in the finished drinking water. The finished drinking water shall be monitored to verify that levels of copper do not exceed 1.3 mg/L.

Last Updated on 2013-10-04

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**FDPH.MH28311**
Drinking Water Treatment Chemicals[Page Bottom](#)**Drinking Water Treatment Chemicals**[See General Information for Drinking Water Treatment Chemicals](#)**CHAMELEON INDUSTRIES INC**
PO BOX 853027
MESQUITE, TX 75185 USA

MH28311

NSF/ANSI 60

Plant at: Corsicana, TX

Trade Dsg	Category	Max Use Level (mg/L)
Aluminum Sulfate [*Al]		
Alum	Coagulation and Flocculation Products	150
Alum C [*Cu]	Coagulation and Flocculation Products	150
Aluminum Sulfate "C" [*Cu]	Coagulation and Flocculation Products	150
CI 3002	Coagulation and Flocculation Products	140
CI 3007	Coagulation and Flocculation Products	140
CI 3102	Coagulation and Flocculation Products	140
CI 3103	Coagulation and Flocculation Products	140
CI 3107	Coagulation and Flocculation Products	140
CI 3108	Coagulation and Flocculation Products	140
CI 3203	Coagulation and Flocculation Products	140
CI 3204	Coagulation and Flocculation Products	140
CI 3208	Coagulation and Flocculation Products	140
CI 3209	Coagulation and Flocculation Products	140
CI 3302	Coagulation and Flocculation Products	140
CI 3304	Coagulation and Flocculation Products	140
CI 3307	Coagulation and Flocculation Products	140
CI 3309	Coagulation and Flocculation Products	140
CI 3403	Coagulation and Flocculation Products	140
CI 3404	Coagulation and Flocculation Products	140
CI 3408	Coagulation and Flocculation Products	140
CI 3409	Coagulation and Flocculation Products	140
CI 3502	Coagulation and Flocculation Products	140
CI 3503	Coagulation and Flocculation Products	140

CI 3504	Coagulation and Flocculation Products	140
CI 3507	Coagulation and Flocculation Products	140
CI 3508	Coagulation and Flocculation Products	140
CI 3509	Coagulation and Flocculation Products	140
CI 3707	Coagulation and Flocculation Products	50
CI 3708	Coagulation and Flocculation Products	50
CI 3709	Coagulation and Flocculation Products	50
CI 3727	Coagulation and Flocculation Products	50
CI 3728	Coagulation and Flocculation Products	50
CI 3729	Coagulation and Flocculation Products	50
CI 3747	Coagulation and Flocculation Products	50
CI 3748	Coagulation and Flocculation Products	50
CI 3749	Coagulation and Flocculation Products	50
CI 3767	Coagulation and Flocculation Products	50
CI 3768	Coagulation and Flocculation Products	50
CI 3769	Coagulation and Flocculation Products	50
CI 4707	Coagulation and Flocculation Products	50
CI 4708	Coagulation and Flocculation Products	50
CI 4709	Coagulation and Flocculation Products	50
CI 4727	Coagulation and Flocculation Products	150
CI 4728	Coagulation and Flocculation Products	50
CI 4729	Coagulation and Flocculation Products	50
CI 4747	Coagulation and Flocculation Products	50
CI 4748	Coagulation and Flocculation Products	50
CI 4749	Coagulation and Flocculation Products	50
CI 4767	Coagulation and Flocculation Products	50
CI 4768	Coagulation and Flocculation Products	50
CI 4769	Coagulation and Flocculation Products	50
CI 5707	Coagulation and Flocculation Products	50
CI 5708	Coagulation and Flocculation Products	50
CI 5709	Coagulation and Flocculation Products	50
CI 5727	Coagulation and Flocculation Products	100
CI 5728	Coagulation and Flocculation Products	50
CI 5729	Coagulation and Flocculation Products	50
CI 5747	Coagulation and Flocculation Products	50
CI 5748	Coagulation and Flocculation Products	50
CI 5749	Coagulation and Flocculation Products	50
CI 5767	Coagulation and Flocculation Products	50
CI 5768	Coagulation and Flocculation Products	50
CI 5769	Coagulation and Flocculation Products	50

Sulfuric Acid	Coagulation and Flocculation Products	150
Liquid Ammonium Sulfate	Disinfection and Oxidation	62.5

Plant at: Odessa, TX

Trade Dsg	Category	Max Use Level (mg/L)
Aluminum Sulfate [*Al]		
Alum	Coagulation and Flocculation Products	150
Alum C [*Cu]	Coagulation and Flocculation Products	150
Aluminum Sulfate "C" [*Cu]	Coagulation and Flocculation Products	150
CI 3002	Coagulation and Flocculation Products	140
CI 3007	Coagulation and Flocculation Products	140
CI 3102	Coagulation and Flocculation Products	140
CI 3103	Coagulation and Flocculation Products	140
CI 3107	Coagulation and Flocculation Products	140
CI 3108	Coagulation and Flocculation Products	140
CI 3203	Coagulation and Flocculation Products	140
CI 3204	Coagulation and Flocculation Products	140
CI 3208	Coagulation and Flocculation Products	140
CI 3209	Coagulation and Flocculation Products	140
CI 3302	Coagulation and Flocculation Products	140
CI 3304	Coagulation and Flocculation Products	140
CI 3307	Coagulation and Flocculation Products	140
CI 3309	Coagulation and Flocculation Products	140
CI 3403	Coagulation and Flocculation Products	140
CI 3404	Coagulation and Flocculation Products	140
CI 3408	Coagulation and Flocculation Products	140
CI 3409	Coagulation and Flocculation Products	140
CI 3502	Coagulation and Flocculation Products	140
CI 3503	Coagulation and Flocculation Products	140
CI 3504	Coagulation and Flocculation Products	140
CI 3507	Coagulation and Flocculation Products	140
CI 3508	Coagulation and Flocculation Products	140
CI 3509	Coagulation and Flocculation Products	140
CI 3707	Coagulation and Flocculation Products	50
CI 3708	Coagulation and Flocculation Products	50
CI 3709	Coagulation and Flocculation Products	50
CI 3727	Coagulation and Flocculation Products	50
CI 3728	Coagulation and Flocculation Products	50
CI 3729	Coagulation and Flocculation Products	50
CI 3747	Coagulation and Flocculation Products	50

CI 3748	Coagulation and Flocculation Products	50
CI 3749	Coagulation and Flocculation Products	50
CI 3767	Coagulation and Flocculation Products	50
CI 3768	Coagulation and Flocculation Products	50
CI 3769	Coagulation and Flocculation Products	50
Liquid Ammonium Sulfate	Disinfection and Oxidation	62.5

[*Al] - The finished drinking water shall be monitored to verify that the level of aluminum does not exceed 2 mg/L.

[*Cu] - This chemical contains copper and can increase the amount of copper in the finished drinking water. The finished drinking water shall be monitored to verify that levels of copper do not exceed 1.3 mg/L.

Last Updated on 2013-10-04

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Univar Solutions USA Inc.
8201 S. 212th
Kent, WA 98032-1994
USA

T 253-872-5000
F 253-572-5041
www.univarsolutionsusa.com



ORIGINAL

August 10, 2021

City of Lawton
Attn: City Clerk, Buyer
2nd Floor Conference Room
212 SW 9th Street
Lawton, OK 73501
580-581-3430

RE: CL20-028, Liquid Aluminum Sulfate

To: City Clerk,

Univar USA Inc. is pleased to offer a price quote on your ITB due Tuesday, August 24, 2021 at 2:00 P.M. and has done so on the attached required paperwork.

Our contact information for all things bid and contract related, as well as the information for your local branch, is also attached.

We look forward to hearing the results of your request.

Thank you,

Roise Holiday

Municipal Specialist
Western Region
Univar Solutions USA Inc.
206-653-5075
muniteam-west@univarsolutions.com
www.univar.com

Please Note: Seller shall indemnify Buyer for losses to the extent caused by Seller's negligence or breach of contract. Neither party is liable for incidental or consequential damages. Seller's liability is limited to the purchase price of the goods. SELLER MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Please Note: Where applicable, any State, Federal or other appropriate taxes and/or the California Mill Assessment will appear as separate line items on any invoices from Univar. If Univar's offer (pricing) was inclusive of these charges – they will be backed out of the "product" line item and shown as their own line item(s) at the time of billing.

City of Lawton

INVITATION TO BID AND CONTRACT

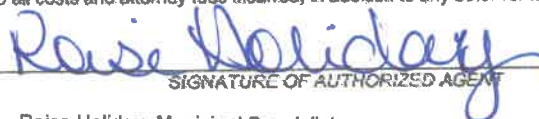
MAIL SEALED BIDS TO: City Clerk City of Lawton 212 SW 9th Street Lawton, OK 73501		DIRECT INQUIRIES TO: Marcie Sego, Buyer marcie.sego@lawtonok.gov Maegan Dowlen, Contract Administrator maegan.dowlen@lawtonok.gov	
Date Bid Typed: August 3, 2021	Dates Bid Advertised: August 4, 2021	No Bids Received After: August 24, 2021 2:00 P.M.	
Contract Number and Title: CL20-028 LIQUID ALUMINUM SULFATE		Requirements-type Contract: YESX	Contract Period: 12 months
Bid Openings are held at Lawton City Hall 2nd Floor Conference Room 212 SW 9th Street Lawton, OK 73501 @ 2:00 pm			
Vendor Name and Point of Contact: Univar Solutions USA Inc. Roise Holiday		Reason for No Bid:	
Mailing Address: 8201 S 212th Street		Terms: 30 day net	
City: Kent	State: WA	Zip: 98032	Delivery: 2 - 3 days
Area Code and Phone Number: 206-653-5075		FAX Area Code and Phone Number:	
Federal Employer Identification Number or Social Security Number 91-1347935			

THIS BID INVALID IF NOT SIGNED AND NOTARIZED

AFFIDAVIT: STATE OF Florida COUNTY OF Hillsborough

Roise Holiday of lawful age, being first duly sworn, on oath says that:

1. Affiant is the duly authorized agent of the bidder/vendor and/or contractor submitting the competitive bid and executing the contract which is attached to this statement, and that as such agent Affiant has the authority to bind the bidder/vendor, whether an individual, partnership, or corporation, for the purpose of negotiating and entering into said agreement, and for certifying the facts pertaining to the existence of collusion among bidders and between bidders and City officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached; 2. Affiant is fully aware of the facts and circumstances surrounding the making of the bid and/or the procurement of the contract to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bids; 3. Neither the bidder/vendor nor anyone subject to the bidder/vendor's direction or control has been a party: a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding, b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor d. to paying, giving or donating or agreeing to pay, give or donate to any officer or employee of the City of Lawton, any money or other thing of value, either directly or indirectly, in procuring the contract to which this statement is attached. 4. Affiant further agrees to be held personally liable in the event that Affiant has misrepresented the scope or extent of Affiant's authority to bind the bidder herein, and to indemnify and hold harmless the City of Lawton its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned from all damages based upon such misrepresentation, including but not limited to all costs and attorney fees incurred, in addition to any other remedies available by law.


 SIGNATURE OF AUTHORIZED AGENT

Firm: Univar Solutions USA Inc.

Roise Holiday, Municipal Specialist

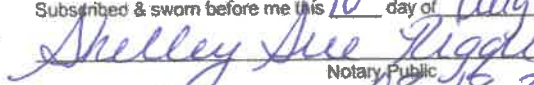
PRINT/TYPE NAME/TITLE

Address: 8201 S 212th Street

Subscribed & sworn before me this 10th day of August, 2021

Kent WA 98032

(City, State, Zip)

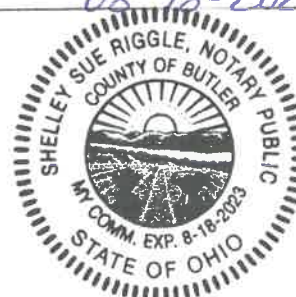

 Notary Public

Phone: 206-653-5075

My Commission expires: 08-18-2023

INVITATION TO BID AND CONTRACT
PAGE 1 OF 11

FORM REVISED 4/96





FINANCIAL SERVICES
212 SW 9th Street
Lawton, Oklahoma 73501
(580) 581-3328 Ext. 4 FAX (580) 581-3438

August 3, 2021

Interested Vendor:

SUBJECT: Special Instructions for Submission of Bid Packet

If you desire to submit a bid for **CL20-028 Liquid Aluminum Sulfate**, this letter is provided to clarify problem areas.

The bid packet is composed of the following documents:

- Invitation for Bid and Contract with General Instructions
- Affidavit For Payments In Excess Of Twenty-Five Thousand Dollars (\$25,000.00)
- Department Specifications / Compliance Sheet
- Price Bid Sheet

You must include the following items in your bid packet or your bid cannot be considered:

- Page 1 of the Invitation for Bid/Contract must be returned. It must be the original properly signed and notarized.
- Price Bid Sheet and specifications sheets (with vendor's comments if applicable)

Please submit two (2) copies of any additional documents such as descriptive literature, samples, material safety data sheets or references. Please note that in some specifications, the submittal of the additional documents is required. If the documents are required and are not submitted, your bid may be considered non-responsive.

If you will require additional documents to be executed such as service agreements etc., they must be submitted for legal review with your bid. No additional documents shall be considered or executed following bid submission unless it is deemed necessary by the City.

Bid openings are held at 212 SW 9th Street Lawton, OK 73501 in the 2nd floor Conference Room @ 2:00 pm. Bid results may be obtained by attending the bid opening, making a written request and enclosing a stamped, self-addressed envelope, or by fax. Bid results are not available by telephone. Please specify if you desire the bid results or the results of who received the contract. Contract award information will not be available until the City Council awards the contract. Information will be mailed or faxed to the requester.

Examine your bid packet carefully as soon as you receive it. If any of the requested items are missing or if you have questions about the bid packet, contact Marcie Sego via email at Marcie.sego@lawtonok.gov or Maegan Dowlen via email at maegan.dowlen@lawtonok.gov.

Sincerely,

Maegan Dowlen
Contract Administrator
Financial Services

GENERAL CONDITIONS FOR BIDDING REQUIREMENTS **CONTRACTS WITH THE CITY OF LAWTON, OKLAHOMA.**

**BIDDER – TO INSURE ACCEPTANCE OF THE BID,
CAREFULLY FOLLOW THESE INSTRUCTIONS. FAILURE
TO DO SO MAY RESULT IN THE REJECTION OF YOUR BID
WITHOUT FURTHER CONSIDERATION OR NOTICE TO YOU.**

SEALED BIDS: All bid sheets and this form must be executed and submitted in a sealed envelope. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE). The face of the envelope shall contain, in addition to the address on page one (1) of this document, the date and time of the bid opening and the contract number. Bids not submitted on this bid form shall be rejected. All bids are subject to the conditions specified herein. **Those which do not comply with these conditions are subject to rejection.** Bids will be considered only on first quality products. Bid files which include copies of specifications, drawings, schedules or special instructions are on file with the City Clerk and may be examined during normal working hours.

1. **EXECUTION OF BID AND CONTRACT:** Bid and contract documents must contain an original signature of authorized representative in the space provided. Bid must be typed or printed in ink. Use of erasable ink is not permitted. **ALL CORRECTIONS MADE BY BIDDER/VENDOR TO BID PRICE MUST BE INITIALED.** Do not use white out, correction tape or some other method of masking a correction.
2. **NO BID:** If not submitting a bid, respond by returning page one (1), marking it "NO BID" and explain the reason in the space provided above. Failure to respond 3 times in succession shall be cause for removal of the supplier's name from the bid mailing list, without further notice. **NOTE:** To qualify as having responded, bidder/vendor must submit a "NO BID", and it must be received no later than the stated bid opening date and hour.
3. **OBJECTIONS/CHALLENGE:** Should a bidder/vendor have an objection to or challenge the specifications, the bidder/vendor is responsible for making this known in writing so as to reach the City Clerk no later than seven (7) calendar days prior to the bid opening date. The envelope shall be marked in such a way to alert the City Clerk of the urgency in order to immediately notify the Purchasing Division. The envelope will be marked indicating that the content is a challenge to a specified Invitation to Bid. For all challenges considered valid by the Purchasing Supervisor, all vendors on the original mailing list will be provided an addendum which addresses the challenge. Challenges/Objections not considered valid will be so stated to the objecting party.
4. **BID OPENING:** Bid opening occurs at the time specified on the bid form. It is the bidder/vendor's responsibility to assure that the bid is delivered at the proper time and place of the bid opening. Bids, which for any reason are not delivered, will not be considered. Offers by telegram, facsimile or telephone are not acceptable. **NOTE:** Bid files may be examined during normal working hours by appointment, after the date and time of bid opening. Bid tabulations **WILL NOT** be provided by telephone. Bid tabulations will be provided by mail at the written request of the bidder/vendor. Bid and contract documents are the property of the City and are subject to the provisions of the Oklahoma Open Records Act.
5. **WITHDRAWAL OF BID:** Bids may be withdrawn at any time prior to the bid opening date and time. After bids are opened, all bids will be considered firm and valid until award of contract is made.

6. **AWARDS:**

- a. As the best interest of the City may require, the right is reserved to:
 - 1. Award by individual item, group of items, all or none, or a combination thereof.
 - 2. Award based upon a geographical district basis with one or more suppliers.
 - 3. To reject any and all bids or waive any minor irregularity or technicality in bids received.
- b. Bidder/vendors are cautioned to make no assumptions regarding their success on the awarding of any contract unless their bid has been evaluated as being responsive, the contract awarded by City Council, and appropriate documents executed. The City of Lawton reserves the right to add or delete any item from this contract when deemed to be in the City's best interest.

- 7. **ACCEPTANCE OF CONTRACT:** This document constitutes only the bidder/vendor's bid until it is accepted by the City Council for the City of Lawton and is executed by the Mayor and City Clerk on behalf of the City of Lawton.
- 8. **WAIVER:** The City of Lawton reserves the right to waive any General Provisions, Special Provision, or minor specification deviation when considered to be in the best interest of the City.
- 9. **CHANGES TO SPECIFICATIONS:** Bids are to be submitted in accordance with the specifications provided. Any exceptions to the specifications must be indicated in the place provided on the specification page(s) or by separate letter from the bidder/vendor, if a place is not provided in the specifications. Changes in specification reducing the quality, versatility or applicability of the product or service shall cause the rejection of the bid. The City shall make the final determination. Failure to notice the City of the deviation from the specification may cause the bid to be rejected at the discretion of the City.
- 10. **MISTAKES:** Bidder/Vendors are expected to examine the specifications, delivery schedule, bid prices and all instructions pertaining to supplies and services. Failure to do so will be at bidder/vendor's risk. In all cases, the UNIT PRICE WILL GOVERN.
- 11. **INFORMATION:** The bidder/vendor must provide information pertinent to items you are bidding. Complete catalogues are not necessary. If furnished, however, the bidder/vendor must identify the exact location in the catalogue and circle or identify clearly the item being bid.
- 12. **MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS:** Any manufacturers' names, trade name brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. The bidder/vendor may offer any brand for which he is an authorized representative, which meets or exceeds the specification for any item(s). If bids are based on equivalent products, indicate on the bid form the manufacturer's name and model number. Bidder/Vendor shall submit with his proposal sketches, descriptive literature, and/or complete specifications. References to literature submitted with a previous bid will not satisfy this provision. The bidder/vendor shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids, which do not comply with these requirements, are subject to rejection. Bids lacking any written indication of intent to

quote an alternate brand will be received and considered to be in complete compliance with the specifications as listed on the bid form.

13. **SAMPLES:** Samples of items, when called for, must be furnished free of charge and at no expense to the City. Each individual sample must be labeled with bidder/vendor's name, manufacturer's brand name and number, contract number and item reference, or as specified in the attached special conditions. Samples will not be returned.
14. **TESTING:** When testing is required to determine if a sample or an awarded product meets specifications and it is determined that the product fails to meet specifications, the cost of testing shall be borne by the vendor, both on samples and delivered products.
15. **NONCONFORMANCE TO CONTRACT CONDITIONS:** Items may be tested for compliance with specifications by appropriate testing laboratories or by the City. The data derived from any tests for compliance with specifications are public records and open to examination thereto in accordance with Oklahoma Statutes. Items delivered not conforming to specifications will be rejected and returned to the bidder/vendor at the bidder/vendor's expense. Any violation of these stipulations may result in supplier's name being removed from the City of Lawton Purchasing bidder/vendor mailing list, and the City may pursue any and all other remedies available either in equity or by law.
16. **CONDITION AND PACKAGING:** It is understood and agreed that any item offered for shipped as a result of this bid shall be new (current model at the time of the bid). All containers shall be suitable for storage or shipment and all prices shall include standard commercial packaging.
17. **INSPECTION, ACCEPTANCE and TITLE:** Inspection and acceptance will be at the destination unless otherwise provided. "Destination: shall mean delivered to the receiving dock, department stockroom, or other point specified. The City accepts no responsibility for goods until accepted at the receiving point in good condition. Title and risk of loss or damage to all items shall be the responsibility of the bidder/vendor until accepted by the ordering agency. The bidder/vendor shall be responsible for filing, processing and collecting all damage claims. However, to assist him in the expeditious handling of damage claims the ordering department will:
 - a. Record any evidence of visible damage on all copies of the delivering carrier's Bill of Lading.
 - b. Report damage (whether visible or concealed) to the carrier and bidder/vendor, conforming such reports, in writing, within fifteen (15) days of delivery, requesting that the carrier inspects the damaged merchandise.
 - c. Retain the item and it's shipping container including inner packaging material, until inspection is performed by the carrier, and disposition given by the bidder/vendor, or for a reasonable time after notification to the bidder/vendor.
 - d. Provide the bidder/vendor with a copy of the carrier's Bill of Lading and damage inspection report.
18. **SAFETY STANDARDS:** Unless otherwise stipulated in the bid, all manufactured items or fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards thereunder.

19. **SERVICE AND WARRANTY:** Unless otherwise specified, the bidder/vendor shall define any warranty service and replacements that will be provided during and subsequent to this contract. Bidder/Vendors must explain on an attached sheet to what extent warranty and service facilities are provided. Unless otherwise indicated in this agreement, upon acceptance of this contract by the City, bidder/vendor expressly warrants that all articles, materials, supplies, equipment, and/or services covered in this contract will conform to the specification attached hereto and made a part hereof; and further warrants that same shall be good material and workmanship, and free from defects.
20. **REMEDIES:** Failure to make delivery or to meet specifications authorizes the City to seek replacement goods or services elsewhere and to seek legal remedies against the defaulting bidder/vendor. If any of the goods and/or work performed fails to meet the warranties contained herein, bidder/vendor upon notice thereof from the City shall promptly correct or replace the same at bidder/vendor's expense. If bidder/vendor shall fail so to do, the City may cancel this order as to all such goods and in addition, may cancel the remaining balance of this order and pursue all other remedies available. After notice to the bidder/vendor, all such goods will be held at bidder/vendor's risk. The City may and at bidder/vendor's direction shall, return such goods to bidder/vendor at bidder/vendor's risk, and all transportation charges, both to and from original destination, shall be paid by bidder/vendor. Any payment for such goods shall be refunded by bidder/vendor unless bidder/vendor promptly corrects or replaces the same at its expense.
21. **AUTHORIZED USERS:** Bids shall cover requirements during the specified period for all Municipal Departments, Boards, Commissions, Agencies, and Institutions.
22. **LIABILITY:** The bidder/vendor shall hold and save the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned harmless against the claims by third parties resulting from the supplier's breach of this contract or the supplier's negligence.
23. **PRICES AND TERMS:** Unless otherwise provided in the bid specifications, firm fixed prices shall be bid F.O.B Lawton at the indicated department's address and include packing, handling and shipping charges fully prepaid by the vendor. Bid prices shall be valid for a minimum of sixty (60) days from the date of bid opening.
24. **ACCEPTANCE OF PURCHASE ORDERS:** Bidder/vendor are to accept only those purchase orders issued by the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned, prepared on Accounting Division Forms unless instructed otherwise in the invitation to bid or executed contract agreement.
25. **PRICE ADJUSTMENTS:** Manufacturer's price increases, or other increases in the cost of doing business MAY NOT be passed on to the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned, nor may the vendor withdraw or cancel the proposal, or any resulting agreement, or any part of the proposal or agreement for these reasons. Vendors may only cancel the contract, pursuant to the cancellation clause, if one is included as a part of the Invitation to Bid, and then only if the contractual obligation has been fulfilled by the bidder/vendor in accordance with the terms stated. Bids which reflect that the price of an item is based upon "market price" or is "subject to increase" based upon some event, or otherwise indicates that prices reflected are infirm or subject to change will be deemed non-conforming unless the bid specifications specifically provide for price escalation.

26. **SUMMARY OF TOTAL SALES:** The bidder/vendor agrees to furnish City of Lawton Purchasing Division a summary of sales, including total dollar amount, made under the contract at the end of each quarter, or as stipulated in the attached special conditions.

27. **PAYMENT:**

- a. **INVOICING:** The vendor shall be paid within a reasonable time after submission of proper certified invoices to the City at the prices stipulated on the contract. Invoices shall contain the contract number and purchase order number. Failure to follow these instructions may result in delay of processing invoices for payment. The Company or Corporation bidding shall be the only office authorized to receive orders, do the billing and invoicing and receive payment. If the bidder/vendor wishes to ship or service from a point other than the home office he will furnish a list of these locations. **HOWEVER, NO ORDERS WILL BE PRESENTED TO, BILLING WILL NOT BE DONE FROM NOR WILL PAYMENT BE MADE TO THESE LOCATIONS.**
 - b. **REQUIREMENTS ONLY PURCHASES:** The proposed Contract shall be for the quantities actually ordered during the life of the contract only. **UNLESS OTHERWISE SPECIFIED, ALL CONTRACTS ARE REQUIREMENTS-TYPE CONTRACT,** meaning that quantities indicated are only estimates of those actually needed, and actual quantities may be greater or less than those indicated. Billing shall be made in accordance with instructions by department or division issuing the purchase order, and only for quantities actually ordered and delivered. The City does not promise to purchase the quantity shown. The City reserves the right to purchase none of the product or more than shown.
 - c. **Taxes:** Purchases by the City of Lawton are not subject to any Sales Tax or Federal Excise Tax. Exemption Certificates will be furnished upon request.
 - d. **Discounts:** Bidder/Vendors may offer a cash discount for prompt payment; however, such discounts shall not be considered in determining the lowest net cost for bid evaluation purposes. Bidder/Vendors are encouraged to reflect cash discounts in the unit prices quoted. Discount time will be computed from the date of satisfactory delivery at place of acceptance or from receipt of correct invoice at the office specified, whichever is later.
 - e. All provisions of the Uniform Commercial Code shall be adhered to.
28. **EXTENSION:** At the end of the contract period, or upon the conclusion of a maximum of one (1) extension thereof, the contract may be extended for a period not to exceed twelve (12) months at the same price and conditions as in the original contract, by mutual agreement between the City and the bidder/vendor. The extended contract shall, upon the signing by both parties, become a binding agreement and shall remain in force and effect until terminated by either party, provided that either party to the contract shall have the option to terminate said extended contract upon thirty days' prior written notice of termination by one party to the other.
29. **CONFLICT OF INTEREST:** The Invitation to Bid hereunder is subject to the provisions of City of Lawton Charter and City Code. All bidder/vendors must disclose with the bid the name of any officer, director or agent who is also an employee of the City of Lawton or any of its agencies or subdivisions. Further, all bidder/vendors must disclose the name of any City employee who owns, directly or indirectly, an interest of five percent (5%) or more in the bidder/vendor's firm or any of its branches.

30. **PATENTS AND ROYALTIES:** The bidder/vendor, without exception, shall indemnify and save harmless the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract including its use by the City of Lawton. If the bidder/vendor uses any design, device or materials covered by letters, patent copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or cost rising from the use of such design, device, or materials in any way involved in the work.
31. **FACILITIES:** The City reserves the right to inspect the bidder/vendor's facilities at any time with reasonable prior notice.
32. **BANKRUPTCY:** If the bidder/vendor becomes bankrupt or insolvent, or if a petition in bankruptcy is filed against the bidder/vendor, or if a receiver is appointed for the bidder/vendor, the City shall have the right to terminate this contract upon written notice to the bidder/vendor without prejudice to any claim for damages or any other right of the City under this contract at the time of such termination.
33. **ASSIGNMENT:** This contract shall not be assigned by the bidder/vendor without written consent of the City.
34. **INSURANCE:** If insurance is required in the specifications to this agreement, unless otherwise specifically stated, proof of the following types and amounts shall be furnished to the City, showing the City as an additional insured thereunder without cost to the City of Lawton, prior to the awarding of the contract:
- a. **General Liability:** The bidder/vendor shall procure and maintain in full force and effect, for the term of the Contract, a policy or policies under a comprehensive form as required by state law. In addition, the bidder/vendor shall have, during the term of the Contract, insurance in the minimum amount of twenty-five thousand dollars (\$25,000) property damages, arising from a single occurrence. One hundred twenty-five thousand dollars (\$125,000) for personal injuries arising from a single occurrence, and one million dollars (\$1,000,000) for any number claims arising out of a single occurrence or accident. This policy or policies shall hold harmless and indemnify the City of Lawton its department boards, commissions, agencies, institutions and all employees of the aforementioned. A current certificate showing that the bidder/vendor has in force and effect such insurance shall be maintained on file with the City Clerk of the City.
 - b. **Automobile Liability:** The bidder/vendor shall procure and maintain in full force and effect, for the term of the Contract, vehicle liability coverage in the amounts specified in subparagraph A of this section. In addition, the bidder/vendor shall have, during the term of the Contract, vehicle liability coverage as outlined in the attached specifications. If higher coverage is required by any regulatory entity with oversight of the bidder/vendor's business, the City Code, or other authority, then proof of the higher coverage must be provided. This policy or policies shall hold harmless and indemnify the City of Lawton, its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned. A current certificate showing that the bidder/vendor has a policy shall be maintained on the file with the City Clerk of the City.

- c. **Worker's Compensation:** The bidder/vendor shall procure and maintain in full force and effect for the period of the Contract, full workers' compensation insurance in accordance with the laws of the State of Oklahoma to protect himself and the City against liability under the workers' compensation and occupational disease statutes of the State of Oklahoma. A current certificate showing that the bidder/vendor has in force and effect the aforesaid insurance or a current certificate showing exemption from the requirement shall be maintained on file with the City Clerk of the City.
35. **BONDS:** Neither Bidder's Bonds or Performance Bonds are required unless specifically set forth in the specifications attached hereto. If Bonds are required, the same shall be held under the following requirements and specifications unless otherwise indicated:
- a. **Bidder's Bonds:** If required as a part of the specifications on this contract, bids filed with the Municipal Clerk must be accompanied by a Bidder's Bond, certified check or cashier's check in the amount state made payable to the City of Lawton. This amount will be retained by the City as damages in the event successful bidder/vendor fails to comply with the terms of this agreement, but shall in no way act as a remedy or limitation on damages available to the City, which may pursue any and all other remedies available either in equity or at law. All Deposits and Bonds will be returned to the unsuccessful bidder/vendor's within a reasonable time after the contract has been awarded, and to the successful bidder/vendor upon full performance of the contract. Bonds or funds deposited do not accrue interest while held.
- b. **Performance Bonds:** If a performance Bond is required under the specifications of this agreement, the successful bidder/vendor must, prior to the award of the contract, post the bond, certified check or cashiers ck in the amount stated made payable to the City of Lawton. The Bidder's bond posted will be returned to the successful bidder/vendor upon posting of the Performance Bond and completion of any additional requirements for execution of the contract by the bidder/vendor. The performance bond will be released or returned to the bidder/vendor, as appropriate, after satisfactory completion of the contract and the performance period as stated in the specifications attached or any amendments thereto.
36. **TIME OF ESSENCE:** Unless otherwise stated time shall be considered of the essence to this agreement.
- a. Bidder/vendor specifically agrees that it shall be liable for failure to deliver or delay in delivery occasioned by and including, without limitations, strikes, lockouts, inability of obtaining material or shipping space, breakdowns, delays of carrier's or suppliers, and pre-existing governmental regulations of the federal and state government or any subdivisions thereof, unless governmental acts and regulations affecting delivery could not be found, recognized, or discovered by due diligence on the part of the bidder/vendor prior to submission of his bid and the City Council's acceptance thereof.
- b. When time is not of the essence this contract shall be inoperative during such period of time that aforesaid delivery or acceptance may be rendered impossible by reason of fire, strike, Acts of God, or government regulation. Provided, however, to the extent that the bidder/vendor has any commercially reasonable alternative method of performing his contract by purchase on the market or otherwise, he shall not be freed of his obligation hereunder by this clause.

37. **DISCRIMINATION:** Bidder/vendor agrees, in connection with the performance of work under this contract, as follows:
- a. Bidder/Vendor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin, ancestry, or physical or mental impairment. The bidder/vendor shall take affirmative action to insure that employees are treated without regard to their race, creed, color, sex, national origin, ancestry or physical or mental impairment. Such actions shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruiting or recruitment, advertising, lay-off, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship. The bidder/vendor agrees to post in a conspicuous place available to employees and applicants for employment, notices setting forth provisions of this section.
 - b. The bidder/vendor agrees to include this non-discrimination clause in any subcontract connected with the performance under this contract.
 - c. In the event of the bidder/vendor's non-compliance with the above nondiscrimination clause, this contract may be terminated by the City. The bidder/vendor may be declared by the City ineligible for further contracts with the City until satisfactory proof of intent to comply is made by the bidder/vendor.
38. **DISTRIBUTION OF CONTRACT:** One (1) copy of the contract or award letter shall be furnished to each successful bidder/vendor as a result of this bid. It shall be the bidder/vendor's responsibility to reproduce and distribute copies of the contract to all distribution points listed in this bid whom will accept orders and complete deliveries. No additions, deletions or changes of any kind shall be made to this contract by the bidder/vendor.
39. **ADVERTISING:** In submitting a proposal, bidder/vendor agrees not to use the results therefrom as a part of any commercial advertising.
40. **TERMINATION FOR CONVENIENCE OF THE CITY:**
- a. The performance of work and/or delivery of ordered materials, supplies, equipment, and/or services under this contract may be terminated by the City, in whole or in part, whenever it is determined to be in the best interest of the City.
 - b. Any such termination shall be effected by the delivery to the bidder/vendor of a notice of termination specifying the extent to which performance of work and/or delivery of ordered materials, supplies, equipment, and/or services are terminated, and the date upon which such termination becomes effective.
 - c. After receipt of a notice of termination, the bidder/vendor shall stop work and/or place no further orders under the contract on the date and to the extent specified in the notice of termination.
41. **VENUE:** This contract shall be governed by the laws of the State of Oklahoma.
42. **OKLAHOMA STATE CONTRACT:** Some items which the City solicits bids for are on the Oklahoma State Contract. The City is eligible to purchase from the State Contract and will

check the prices on the State Contract and may elect to purchase under that contract without termination of this agreement.

43. **INTEGRATED AGREEMENT:** This writing, with the attachments hereto, and any associated purchase orders constitute the entire agreement of the parties. No separate promises or agreements have been made other than those contained herein. This agreement may not be modified except in writing signed by both parties.
44. **ENERGY SAVINGS:** Oklahoma is an energy conservation State and we welcome any comments on your bid that would indicate energy savings. Energy savings will be considered on all bids where specifications call for Life Cycle Cost Analysis.

AFFIDAVIT FOR PAYMENTS IN EXCESS OF \$25,000.00
CITY OF LAWTON, STATE OF OKLAHOMA

STATE OF Florida §
COUNTY OF Hillsborough

The undersigned (architect, contractor, supplier or engineer), of lawful age, being first duly sworn, on oath says that this contract is true and correct. Affiant further states that the (work, services or materials) will be (completed or supplied) in accordance with the plans, specifications, orders or requests furnished the affiant. Affiant further states that (s) he has made no payment directly or indirectly to any elected official, officer or employee of the City of Lawton, any county or local subdivision of the state, of money or any other thing of value to obtain or procure the contract or purchase order.

Univar Solutions USA Inc.
Business Name / Contractor Name

Raise Holiday
Signed
Print : Raise Holiday

Attested to before me this 10th day of August 2021

Shelley Sue Riggles
Notary Public

My Commission Expires 08-18 2023

NOTE: Copy of this Affidavit must be attached to any invoice submitted by an architect, contractor, or engineer or supplier for work, services, or materials completed or supplied under the terms of the contract or contracts in excess of \$25,000.00.



CITY OF LAWTON SPECIFICATION

SPECIFICATION NUMBER: M-127

SPECIFICATION TITLE: Aluminum Sulfate, Liquid

APPROVAL DATE: 10/15/03

DELIVERY: City of Lawton Water Treatment Plant, Medicine Park, Ok 73557

a. Item(s) shall be delivered, FOB, to the address shown above.

WARRANTY: None

DISCLAIMER: The City of Lawton reserves the right to accept or reject any or all bids.

DESCRIPTION:

- a. The following specifications are the **minimum** acceptable standards for the item(s) shown above.
- b. Any deviation from these specifications must be clearly annotated by the Bidder by checking either Y or N and on a separate page list the specification reference and detailing the deviation.
- c. Failure to annotate deviations may cause bid to be deemed as non-responsive.

ALUMINUM SULFATE, LIQUID

Quantity: Delivery must be shipped bulk approximately 4,500 gallons per load.

COMPLY

- | | | |
|--|--------------------------|--|
| 1). Total soluble Al ₂ O ₃ 3% | Minimum 8.0- Maximum 8.3 | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| 2). Total soluble Iron as Fe ₂ O ₃ % | <0.02 | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
| 3). Water insolubles, % | 0.02 Max | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> |
- 4). Vendor to supply security information 24 hours prior to delivery, i.e. (Drivers name, license number, picture, trailer number and hatch seal number.)
 - 5). Vendor to supply certified weight certificate at time of delivery. Payment shall be made only for the weight of product delivered.
 - 6). Vendor must supply certificate of analysis for each load to include total manganese and iron content.
 - 7). Vendor to state delivery time. This information will be used as criteria in bid evaluation.

- 8). Liquid Alum must comply with AWWA Standard B403-98. Vendor must supply a current and complete material safety data sheet (MSDS) before their first delivery.
- 9). Product acceptability shall be established under the applicable ANSI/NSF Standard (60 or 61) and must be certified as suitable for contact with or treatment of drinking water.
- 10). The Vendor's agent (truck driver) shall provide samples for the plant operator according to AWWA standard B403-98. Plant operator will provide sample containers.
- 11). The City shall retain one sample from each shipment. The sample will be held until the next shipment of product is received. The vendor agrees the content of this sample fairly represents the quality of the product delivered in that shipment.

Bid Number: CL20-028

Bid Title: Liquid Aluminum Sulfate

Vendor Name: Univar Solutions USA Inc.
(please complete above information)

Price Bid

(must be completed and returned with the bid)

Item	Description	Est Qty	Unit	Unit Price
1	Liquid Aluminum Sulfate	536,637	Gal	\$1.16/gal

Any questions in regards to the attached specifications should be addressed to David Hastings, Water Treatment Plant Superintendent, at (580) 512-7884 or David.hastings@lawtonok.gov.

Notes:

1. As per accompanying specifications.
2. This is a requirements contract.
3. There are no insurance requirements for this contract.
4. Please submit two copies of any additional documents such as descriptive literature.

Signature:

[illegible]

ABSTRACT OF BIDS

[illegible]

Univar Solutions USA Inc.
3320 S. Council Road
Oklahoma City, OK 73179

T 405-745-2376
F 405-745-4934

www.univarsolutions.com



GENERAL INFORMATION

Regular Office Hours during which orders may be placed:

Monday – Friday 8:00 am – 5:00 pm (CST)

In case of an emergency during non-business hours:

For Non-Chemical Emergencies:

After-hours emergency phone – 24-hour response: Answering Service 405-745-2376

For Chemical Related Emergencies:

ChemTrec: (800) 424-9300

Names, telephone/FAX numbers of those responsible for taking orders and initiating delivery:

Office Phone: 405-745-2376

Office Fax: 405-745-4934

Customer Service/ Order Desk

custSolmid-Central@univarsolutions.com

Bryan Arens - Branch Operations Manager

bryan.arnes@univarsolutions.com

For anything pertaining to bids:

Please send all bid packets/documents to:
(Unless otherwise specified)

Roise Holiday
12720 US Hwy 92
Trl: 427
Dover, FL 33527
Muniteam-west@univarsolutions.com

Contacts: muniteam-west@univarsolutions.com

Stacy Ziegler
Municipal Specialist
Phone: (253) 872-5023
Fax: (253) 872-5041
stacy.ziegler@univarsolutions.com

Roise Holiday
Municipal Specialist
Phone: (206) 653-5075
Roise.Holiday-Henry@univarsolutions.com

Jennifer Perras
Municipal Specialist
Phone: (253) 872-5040
Fax: (253) 872-5041
jennifer.perras@univarsolutions.com

Shawnasey McCarthy
Municipal Specialist Manager
Phone: (253) 872-5052
Fax: (253) 872-5041
Shawnasey.McCarthy@univarsolutions.com

Remittance Address:

Univar Solutions USA Inc.
62190 Collections Center Drive
Chicago, IL 60693-0621
Please include remit information – Invoice number

Standard Payment Terms:

Net 30 days

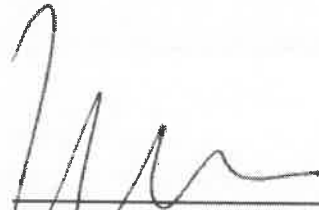
CERTIFICATE OF SECRETARY

I, Noelle J. Perkins, hereby certify that:

1. I am the duly elected, qualified and acting General Counsel and Corporate Secretary of Univar Solutions USA Inc., a Washington Corporation (the "Company"), and am a custodian of the corporate records of the Company and am familiar with the matters herein certified.
2. The below list of persons are authorized to execute, for and on behalf of the Company, written municipal and statewide bids or municipal proposals for the sale of other disposition of products handled by the Company.

Shawnasey McCarthy – Municipal Commercial Manager
Victoria Meakim – Municipal Specialist
Roise Holiday – Municipal Specialist
Jennifer Perras – Municipal Specialist
Shelley Stevens – Municipal Specialist
Stacy Ziegler – Municipal Specialist
Michael Crea – Municipal Specialist

IN WITNESS WHEREOF, I have executed this Certificate of Corporate Secretary of the Company this 9th day of November 2020.



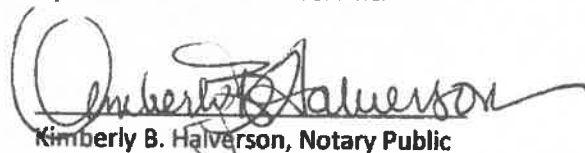
Noelle J. Perkins
General Counsel and Corporate
Secretary

**STATE OF ILLINOIS
COUNTY OF DUPAGE**

This Certificate of Secretary was signed and swore before me this 9th day of November 2020 by Noelle J. Perkins, General Counsel and Corporate Secretary of Univar Solutions USA Inc.

(stamp)

KIMBERLY B HALVERSON
Official Seal
Notary Public - State of Illinois
My Commission Expires Sep 5, 2022



Kimberly B. Halverson, Notary Public
My commission expires: September 5, 2022



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
05/27/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services Central, Inc. Philadelphia PA Office One Liberty Place 1650 Market Street Suite 1000 Philadelphia PA 19103 USA		CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105 E-MAIL ADDRESS:																			
INSURED Univar Solutions USA Inc. 3075 Highland Parkway Suite 200 Downers Grove IL 60515 USA		INSURER(S) AFFORDING COVERAGE <table border="1"><tr><td>INSURER A:</td><td>Illinois Union Insurance Company</td><td>27960</td></tr><tr><td>INSURER B:</td><td>ACE American Insurance Company</td><td>22667</td></tr><tr><td>INSURER C:</td><td>Indemnity Insurance Co of North America</td><td>43575</td></tr><tr><td>INSURER D:</td><td>ACE Fire Underwriters Insurance Co.</td><td>20702</td></tr><tr><td>INSURER E:</td><td></td><td></td></tr><tr><td>INSURER F:</td><td></td><td></td></tr></table>		INSURER A:	Illinois Union Insurance Company	27960	INSURER B:	ACE American Insurance Company	22667	INSURER C:	Indemnity Insurance Co of North America	43575	INSURER D:	ACE Fire Underwriters Insurance Co.	20702	INSURER E:			INSURER F:		
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INSURER D:	ACE Fire Underwriters Insurance Co.	20702																			
INSURER E:																					
INSURER F:																					

COVERAGES**CERTIFICATE NUMBER:** 570087460056**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS												
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			XSLG72479634 SIR applies per policy terms & conditions	06/01/2021	06/01/2022	<table border="1"><tr><td>EACH OCCURRENCE</td><td>\$3,000,000</td></tr><tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td>\$1,000,000</td></tr><tr><td>MED EXP (Any one person)</td><td>Excluded</td></tr><tr><td>PERSONAL & ADV INJURY</td><td>\$3,000,000</td></tr><tr><td>GENERAL AGGREGATE</td><td>\$3,000,000</td></tr><tr><td>PRODUCTS - COMP/OP AGG</td><td>\$3,000,000</td></tr></table>	EACH OCCURRENCE	\$3,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000	MED EXP (Any one person)	Excluded	PERSONAL & ADV INJURY	\$3,000,000	GENERAL AGGREGATE	\$3,000,000	PRODUCTS - COMP/OP AGG	\$3,000,000
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B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			ISA H25547998 Commercial Auto	06/01/2021	06/01/2022	<table border="1"><tr><td>COMBINED SINGLE LIMIT (Ea accident)</td><td>\$5,000,000</td></tr><tr><td>BODILY INJURY (Per person)</td><td></td></tr><tr><td>BODILY INJURY (Per accident)</td><td></td></tr><tr><td>PROPERTY DAMAGE (Per accident)</td><td></td></tr></table>	COMBINED SINGLE LIMIT (Ea accident)	\$5,000,000	BODILY INJURY (Per person)		BODILY INJURY (Per accident)		PROPERTY DAMAGE (Per accident)					
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A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION			XCEG27380566008 SIR applies per policy terms & conditions	06/01/2021	06/01/2022	<table border="1"><tr><td>EACH OCCURRENCE</td><td>\$4,000,000</td></tr><tr><td>AGGREGATE</td><td>\$4,000,000</td></tr></table>	EACH OCCURRENCE	\$4,000,000	AGGREGATE	\$4,000,000								
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C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WLRC67821464 AOS WLRC67821427 MA	06/01/2021	06/01/2022	<table border="1"><tr><td><input checked="" type="checkbox"/> PER STATUTE</td><td><input type="checkbox"/> OTHER</td></tr><tr><td>E.L. EACH ACCIDENT</td><td>\$1,000,000</td></tr><tr><td>E.L. DISEASE-EA EMPLOYEE</td><td>\$1,000,000</td></tr><tr><td>E.L. DISEASE-POLICY LIMIT</td><td>\$1,000,000</td></tr></table>	<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTHER	E.L. EACH ACCIDENT	\$1,000,000	E.L. DISEASE-EA EMPLOYEE	\$1,000,000	E.L. DISEASE-POLICY LIMIT	\$1,000,000				
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E.L. EACH ACCIDENT	\$1,000,000																		
E.L. DISEASE-EA EMPLOYEE	\$1,000,000																		
E.L. DISEASE-POLICY LIMIT	\$1,000,000																		
A	Env Site Liab			PPLG71507944001 Claims Made Form SIR applies per policy terms & conditions	03/31/2019	06/01/2022	<table border="1"><tr><td>Aggregate</td><td>\$16,000,000</td></tr><tr><td>Ea Condition</td><td>\$10,000,000</td></tr><tr><td>SIR</td><td>\$1,000,000</td></tr></table>	Aggregate	\$16,000,000	Ea Condition	\$10,000,000	SIR	\$1,000,000						
Aggregate	\$16,000,000																		
Ea Condition	\$10,000,000																		
SIR	\$1,000,000																		

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of insurance.

CERTIFICATE HOLDER**CANCELLATION**

Univar Solutions, Inc. 3075 Highland Parkway, Suite 200 Downers Grove IL 60515 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Aon Risk Services Central, Inc.</i>

Holder Identifier :

Certificate No : 570087460056



ADDITIONAL REMARKS SCHEDULE

Page _ of _

AGENCY Aon Risk Services Central, Inc.		NAMED INSURED Univar Solutions USA Inc.	
POLICY NUMBER See Certificate Number: 570087460056			
CARRIER See Certificate Number: 570087460056	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
 FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	AUTOMOBILE LIABILITY							
B				MMT H25548036 Truckers Liability	06/01/2021	06/01/2022	Combined Single Limi	\$5,000,000
	WORKERS COMPENSATION							
D		N/A		SCFC67821506 WI	06/01/2021	06/01/2022		
B		N/A		WCUC67821385 Excess WC--CA OH OR,WA SIR applies per policy terms & conditions	06/01/2021	06/01/2022		
	OTHER							
	<input checked="" type="checkbox"/> Claims made							

Request for Taxpayer Identification Number and Certification

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the
requester. Do not
send to the IRS.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Univar Solutions USA Inc.

2 Business name/disregarded entity name, if different from above
Univar USA Inc.

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.
☐ Individual/sole proprietor or single-member LLC
☒ C Corporation
☐ S Corporation
☐ Partnership
☐ Trust/estate
☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ►
Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.
☐ Other (see instructions) ►

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
Exempt payee code (if any) **5**
Exemption from FATCA reporting code (if any) _____
(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
3075 Highland Parkway Suite 200

6 City, state, and ZIP code
Downers Grove, IL 60515-5560

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number								
				-				

or

Employer identification number								
9	1	-	1	3	4	7	9	3 5

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person *David Lunkin* Date *January 14, 2021*

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (Interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What Is backup withholding, later.



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 1 – Product and Company Identification

Material Name: Aluminum Sulfate Solution

Manufacturer Information:

Affinity Chemical, LLC
PO Box 601298
Dallas, TX 75360
973-908-8053 (M-F, 8:00 AM -5:00 PM Eastern Time)

24 Hour Emergency Telephone:

Chemtrec 1-800-424-9300

Other Name(s): Alum

Product Usage:

Water treatment coagulant/flocculant, pH control, phosphate control, paper sizing aid, pitch control

Section 2 – Hazard(s) Identification

Classification:

Skin Irritant 1A, Eye Damage 1, Corrosion 1

Signal Word:

Danger

Hazard Statements:

Causes severe skin burns and eye damage; Causes serious eye damage; May be corrosive to metals



Corrosion

Symbol(s):

Precautionary Statements:

Prevention:

Wash hands, along with any other body parts that may have been exposed, thoroughly after handling.
Wear protective gear to prevent contact with skin (Rubber gloves, aprons, slicker suit)
Wear eye protection/face protection (clear goggles and face shield)

Response:

Keep only in original container.
If on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Refer to first-aid measures (section 4) for any specific treatment
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 attention
Absorb spillage to prevent material damage.

Storage:

Store in compatible containers such as polypropylene, polyethylene, PVC, or 316 SS

Other Hazards:

Ingestion or inhalation not recommended and could present hazards not otherwise classified.

Section 3 – Composition/Information on Ingredients

Common Name(s): Alum

Chemical family: inorganic, salt

Components	CAS#	Weight %
Aluminum Sulfate (as anhydrous)	10043-01-3	<29%
Water (including waters of hydration)	7732-18-5	>71%

Section 4 – First-Aid Measures

Skin/Eye Contact:

For skin, immediately remove contaminated clothes under safety shower. Flush skin with running water for at least 15 minutes. Launder clothes before reuse. For eyes, flush carefully in eye wash for several minutes; remove contact lenses if present and easy to do; cautiously flush person's eyes with running water for at least 15 minutes. Seek Medical attention if irritation persists.

Ingestion:

Rinse mouth. Immediately dilute swallowed material by orally administering large amounts of water or milk. DO NOT INDUCE VOMITING. NEVER administer liquids orally to an unconscious person. Call physician or poison control center if person feels unwell or more than a few drops are ingested.

Inhalation:

Seek medical assistance if irritation is noted, person is having difficulty breathing, or the possibility exists of fluid in the lungs. Remove victim from the contaminated atmosphere. If breathing stopped, give artificial respiration. Weak breathing may be supplemented with a bag-mask or manually operated air supply that delivers at least 1 liter/second.



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 5 – Fire-Fighting Measures

Suitable Extinguishing Media:	Not combustible. Use extinguishing agents appropriate for surrounding fire
Special Fire Fighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion byproducts by wearing a self contained breathing apparatus. Dike area to prevent runoff and contamination of water source. Stay upwind and keep out of low areas.
Unusual Fire/Explosion:	Under fire conditions at temperatures greater than 650°C or 1202°F, decomposes to give off sulfur trioxide, an oxidizing agent which will support combustion. Sulfur trioxide will react to form sulfuric acid.

Section 6 – Accidental Release Measures

Spill or Leak:	Wear PPE appropriate for handling the material. No smoking or eating in spill areas. Absorb small spills with sand or vermiculite. Place contaminated material in appropriate container for disposal. If spilled on ground, the affected area should be removed to a depth of 1 to 2 inches and placed in an appropriate container for disposal. Large spills should be handled according to a predetermined plan. Do not flush material to public sewer systems or any waterways. Wear appropriate protective clothing and equipment during cleanup activities. Ensure adequate decontamination of tools and equipment following cleanup. Adequate ventilation is required when neutralizing spills / leaks.
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Section 7– Handling and Storage

Smoking and/or eating is not recommended in storage areas. Stainless steel or fiberglass tanks are recommended. Keep product away from heat sources and direct sunlight. Do not reuse storage containers unless properly reconditioned. Isolate appropriately from chemicals where low pH could create a hazardous byproduct; for example a combination with hypochlorite could lead to the evolution of chlorine gas.

Section 8– Exposure Controls/Personal Protection

Component	CAS#	OSHA PEL	ACGIH TLV
Aluminum Sulfate (as anhydrous)	10043-01-3	2.0 mg/m ³ (as Al)	2.0 mg/m ³ (as Al)

If airborne exposures exceed 1.0 mg/m³, a negative pressure air-purifying respirator is recommended. Cartridges must be NIOSH / MSHA approved against dusts and mists having TWA than 0.05 mg/m³

Eye wash and safety shower should be available near storage and usage points

Exposed skin and eyes should be protected and contact with skin and clothing avoided. Minimal PPE would be closed goggles and/or face shield and gloves (rubber, neoprene, PVC) with work clothing covering other exposed skin.

Arriving material may be hot; personnel performing unload operations should have additional PPE such as a rainsuit/slicker suit, goggles with faceshield, and appropriate footwear and gloves.

Section 9– Physical and Chemical Properties

Appearance	Clear, water white to amber	Upper/lower flammability or explosive Limits	N/A
Odor	N/A	Vapor pressure	Similar to water
Odor threshold	N/A	Vapor density	Similar to water
pH	1.4-2.6 (neat)	Relative density (15.6°C)	1.315-1.345
Melting point/freezing point	-15°C	Solubility	high in water
Initial boiling point	100°C	Partition coef n-octanol/water	N/A
Flash point	N/A	Auto-ignition temp	N/A
Evaporation rate	N/A	Decomposition Temp	650°C
Flammability	N/A	Viscosity	5-25 cP



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 10- Stability and Reactivity

Reactivity:	Stable at normal temperatures and pressures
Chemical stability:	Stable; water component can evaporate
Possibility of hazardous reactions:	May produce hazardous decomposition products if mixed with pH sensitive materials (e.g. chlorine gas when mixed with sodium hypochlorite).
Conditions to avoid:	Temperatures at or near to crystallization, -15°C or 4°F. At temperatures greater than 650°C or 1202°F, it decomposes to form aluminum oxide and sulfur trioxide
Incompatible materials:	Corrosive to carbon steel
Hazardous decomposition products:	This may include aluminum oxide and sulfur oxides.

Section 11- Toxicological Information

Acute Toxicity Estimate:	The acute oral LD50 is greater than 5,000 mg/kg.
Chronic Toxicity Estimate:	The acute oral LD50 is greater than 5,000 mg/kg.
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Carcinogenicity:	Not listed as a carcinogen by NTP, IARC, or OSHA.
Other Possible Health Hazards:	The common recognized injury from Aluminum Sulfate is local tissue irritation. The irritating action is often from hydrolysis to form sulfuric acid and may occur from ingestion, skin or eye contact, or inhalation of dusts and mists. Remove victim from contaminated area.
Routes of Entry:	SKIN / EYES: May cause corneal burns or severe irritation in eyes. Fumes or mists may cause irritation or burns to skin. INGESTION: Oral and gastrointestinal irritation. Local tissue damage. Nausea, vomiting, diarrhea, and gastrointestinal bleeding may follow. Can be fatal if swallowed in sufficient quantities. INHALATION: Irritation of the respiratory system. Long term exposure may cause bronchial irritation, coughing, and bronchial pneumonia. Medical conditions generally aggravated are acute and chronic respiratory diseases. Ingestion, skin or eye contact, or inhalation of dusts and mists.

Section 12- Ecological Information

(For CAS 10043-01-3)	
Toxicity LC50 :	96h Mosquitofish: 235 mg/l (ECOTOX Database Ref 508, result 2063538)
Persistence and Degradability:	Can be eliminated from water by precipitation or flocculation

Section 13- Disposal Considerations

Disposal:	Contact site environmental personnel and/or state and federal agencies for disposal procedures that are in accordance with environmental regulations.
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Section 14- Transport Information

U.S. DOT

PROPER SHIPPING NAME: Corrosive liquid, Acidic, Inorganic, N.O.S. (contains Aluminum Sulfate)

HAZARD CLASS	UN ID NUMBER	PACKING GROUP	RQ (lbs)
8	UN3264	PG III	10,300



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 15 – Regulatory Information

SARA Title III information:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not listed

SECTION 313 TOXIC CHEMICAL: Not listed

RCRA HAZARD WASTE: Not listed

311/312 HEALTH & PHYSICAL HAZARDS:	Immediate	Delayed	Fire	Pressure	Reactivity
	YES	NO	NO	NO	NO
NFPA RATING	Health	Fire	Reactivity		
	1	0	1		

MAXIMUM USE LEVEL (water treatment): 400 mg/l

TSCA INFORMATION: Listed - Sulfuric Acid, aluminum salt (3:2) 10043-01-3

Section 16– Other Information

Date of preparation: 3/31/20 Version SDS 4.0

Summary of changes: Raised MUL to 400 Section 15

Disclaimer of Warranty:

The information provided in the Safety Data Sheet has been obtained from sources believed to be reliable. Affinity Chemical LLC. provides no warranties; either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Affinity Chemical LLC. knows of no medical condition, other than those noted on this safety data sheet, which are generally recognized as being aggravated by exposure to this product.

08/20/21

Ms. Marcie Sego
City Clerk
City of Lawton
212 SW 9th Street
Lawton, OK 73501

Re: Response to Request for Bid # CL20-028 Liquid Aluminum Sulfate

Dear Ms. Sego,

Thank you for the opportunity to submit a proposal response to the above RFP. We have reviewed the RFP in detail and are pleased to submit the attached proposal for your consideration.

TRInternational, Inc. is a WBENC certified, women owned small business that provides creative sourcing solutions, quality products and personal customer service as a global chemical distributor. TRI represents top manufacturers and suppliers from around the world, providing raw materials utilized in many industries. Cumulatively our Team has decades of experience in the chemical industry with expertise in all primary end use segments.

Our focus and strength is providing unique sourcing options or custom solutions tailored to meet Customer needs and providing more than just the sourcing of high-quality or alternative products. Using our extensive product knowledge and industry experience, we continually seek and share global and local market information, provide exceptional dedicated customer service and take the time to understand your business, challenges and what success looks like for you.

TRI just celebrated 26 years in the chemical industry, and we are looking forward to the opportunity to work with the city of Lawton.

Sincerely,

Karen Wheaton

Karen Wheaton
Contracts Specialist

City of Lawton

INVITATION TO BID AND CONTRACT

MAIL SEALED BIDS TO: City Clerk City of Lawton 212 SW 9th Street Lawton, OK 73501		DIRECT INQUIRIES TO: Marcie Sego, Buyer marcie.sego@lawtonok.gov Maegan Dowlen, Contract Administrator maegan.dowlen@lawtonok.gov	
Date Bid Typed: August 3, 2021	Dates Bid Advertised: August 4, 2021	No Bids Received After: August 24, 2021 2:00 P.M.	
Contract Number and Title: CL20-028 LIQUID ALUMINUM SULFATE		Requirements-type Contract: YESX	Contract Period: 12 months
Bid Openings are held at Lawton City Hall 2nd Floor Conference Room 212 SW 9th Street Lawton, OK 73501 @ 2:00 pm			
Vendor Name and Point of Contact: TR International Trading Company Karen Wheaton		Reason for No Bid:	
Mailing Address: 22817 102nd Place West		Terms: Net 30	
City: Edmonds State: WA Zip: 98020	Delivery: 3-7 days ARO		
Area Code and Phone Number: 206-505-3500		FAX Area Code and Phone Number: 205-505-3501	
Federal Employer Identification Number or Social Security Number 91-1644239			

THIS BID INVALID IF NOT SIGNED AND NOTARIZED

AFFIDAVIT: **STATE OF** WA **COUNTY OF** Snohomish,

Megan Gluth-Bohan

of lawful age, being first duly sworn, on oath says that:

1. Affiant is the duly authorized agent of the bidder/vendor and/or contractor submitting the competitive bid and executing the contract which is attached to this statement, and that as such agent Affiant has the authority to bind the bidder/vendor, whether an individual, partnership, or corporation, for the purpose of negotiating and entering into said agreement, and for certifying the facts pertaining to the existence of collusion among bidders and between bidders and City officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached; 2. Affiant is fully aware of the facts and circumstances surrounding the making of the bid and/or the procurement of the contract to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bids; 3. Neither the bidder/vendor nor anyone subject to the bidder/vendor's direction or control has been a party: a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding, b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor d. to paying, giving or donating or agreeing to pay, give or donate to any officer or employee of the City of Lawton, any money or other thing of value, either directly or indirectly, in procuring the contract to which his statement is attached. 4. Affiant further agrees to be held personally liable in the event that Affiant has misrepresented the scope or extend of Affiant's authority to bind the bidder herein, and to indemnify and hold harmless the City of Lawton its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned from all damages based upon such misrepresentation, including but not limited to all costs and attorney fees incurred, in addition to any other remedies available by law.

SIGNATURE OF AUTHORIZED AGENT

Megan Gluth-Bohan/CEO/Owner
PRINT/TYPE NAME/TITLE

Firm: TR International Trading Company

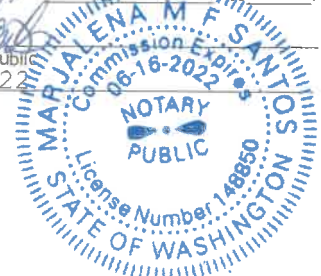
Address: 22817 102nd Place West

Edmonds, WA 98020
(City, State, Zip)

Phone: 206-505-3500

Subscriber & sworn before me this 20th day of August, 2022

Marjaleena M. Peltola
Notary Public
My Commission expires: 06/16/2022



INVITATION TO BID AND CONTRACT
PAGE 1 OF 11

Bid Number: CL20-028

Bid Title: Liquid Aluminum Sulfate

Vendor Name: TR International Trading Company

(please complete above information)

Price Bid

(must be completed and returned with the bid)

Item	Description	Est Qty	Unit	Unit Price
1	Liquid Aluminum Sulfate	536,637	Gal	\$0.905

Any questions in regards to the attached specifications should be addressed to David Hastings, Water Treatment Plant Superintendent, at (580) 512-7884 or David.hastings@lawtonok.gov.

Notes:

1. As per accompanying specifications.
2. This is a requirements contract.
3. There are no insurance requirements for this contract.
4. Please submit two copies of any additional documents such as descriptive literature.

AFFIDAVIT FOR PAYMENTS IN EXCESS OF \$25,000.00
CITY OF LAWTON, STATE OF OKLAHOMA


STATE OF WA
COUNTY OF Snohomish SS

The undersigned (architect, contractor, supplier or engineer), of lawful age, being first duly sworn, on oath says that this contract is true and correct. Affiant further states that the (work, services or materials) will be (completed or supplied) in accordance with the plans, specifications, orders or requests furnished the affiant. Affiant further states that (s) he has made no payment directly or indirectly to any elected official, officer or employee of the City of Lawton, any county or local subdivision of the state, of money or any other thing of value to obtain or procure the contract or purchase order.

TR International Trading Company
Business Name / Contractor Name


Signed
Print : Megan Gluth-Bohan

Attested to before me this 20th day of August 2021.


Notary Public

My Commission Expires June 16 2022.



NOTE: Copy of this Affidavit must be attached to any invoice submitted by an architect, contractor, or engineer or supplier for work, services, or materials completed or supplied under the terms of the contract or contracts in excess of \$25,000.00.

CITY OF LAWTON SPECIFICATION

SPECIFICATION NUMBER: M-127

SPECIFICATION TITLE: Aluminum Sulfate, Liquid

APPROVAL DATE: 10/15/03

DELIVERY: City of Lawton Water Treatment Plant, Medicine Park, Ok 73557

a. Item(s) shall be delivered, FOB, to the address shown above.

WARRANTY: None

DISCLAIMER: The City of Lawton reserves the right to accept or reject any or all bids.

DESCRIPTION:

- a. The following specifications are the **minimum** acceptable standards for the item(s) shown above.
- b. Any deviation from these specifications must be clearly annotated by the Bidder by checking either Y or N and on a separate page list the specification reference and detailing the deviation.
- c. Failure to annotate deviations may cause bid to be deemed as non-responsive.

ALUMINUM SULFATE, LIQUID

Quantity: Delivery must be shipped bulk approximately 4,500 gallons per load.

COMPLY

- | | | |
|--|--------------------------|------------------|
| 1). Total soluble Al ₂ O ₃ % | Minimum 8.0- Maximum 8.3 | Y <u>X</u> N ___ |
| 2). Total soluble Iron as Fe ₂ O ₃ % | <0.02 | Y <u>X</u> N ___ |
| 3). Water insolubles, % | 0.02 Max | Y <u>X</u> N ___ |
- 4). Vendor to supply security information 24 hours prior to delivery. i.e.
(Drivers name, license number, picture, trailer number and hatch seal number.)
 - 5). Vendor to supply certified weight certificate at time of delivery. Payment shall be made only for the weight of product delivered.
 - 6). Vendor must supply certificate of analysis for each load to include total manganese and iron content.
 - 7). Vendor to state delivery time. This information will be used as criteria in bid evaluation.

- 8). Liquid Alum must comply with AWWA Standard B403-98. Vendor must supply a current
and complete material safety data sheet (MSDS) before their first delivery.
- 9). Product acceptability shall be established under the applicable ANSI/NSF Standard (60 or 61) and must be certified as suitable for contact with or treatment of drinking water.
- 10). The Vendor's agent (truck driver) shall provide samples for the plant operator according to AWWA standard B403-98. Plant operator will provide sample containers.
- 11). The City shall retain one sample from each shipment. The sample will be held until the next shipment of product is received. The vendor agrees the content of this sample fairly represents the quality of the product delivered in that shipment.



PRODUCT DATA SHEET
(LOW IRON LIQUID ALUMINUM SULFATE)

Physical Properties

Dry Alum in Solution	48-49%
Al ₂ O ₃	8.0-8.4%
Free Al ₂ O ₃	+/- 0.025%
Total Iron as Fe ₂ O ₃	< 50 ppm
Insoluble Matter	< 0.02 %
S.G.	1.325 +/- .003
pH	1.9 - 2.3



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 1 – Product and Company Identification

Material Name: Aluminum Sulfate Solution

Manufacturer Information:

Affinity Chemical, LLC
PO Box 601298
Dallas, TX 75360
973-908-8053 (M-F, 8:00 AM -5:00 PM Eastern Time)

24 Hour Emergency Telephone:

Chemtrec 1-800-424-9300

Other Name(s): Alum

Product Usage:

Water treatment coagulant/flocculant, pH control, phosphate control, paper sizing aid, pitch control

Section 2 – Hazard(s) Identification

Classification: Skin Irritant 1A, Eye Damage 1, Corrosion 1

Signal Word: Danger

Hazard Statements: Causes severe skin burns and eye damage; Causes serious eye damage; May be corrosive to metals



Corrosion

Symbol(s):

Precautionary Statements:

Prevention:

Wash hands, along with any other body parts that may have been exposed, thoroughly after handling.
Wear protective gear to prevent contact with skin (Rubber gloves, aprons, slicker suit)
Wear eye protection/face protection (clear goggles and face shield)
Keep only in original container.

Response:

If on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Refer to first-aid measures (section 4) for any specific treatment
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 attention
Absorb spillage to prevent material damage.

Storage:

Store in compatible containers such as polypropylene, polyethylene, PVC, or 316 SS

Other Hazards:

Ingestion or inhalation not recommended and could present hazards not otherwise classified.

Section 3 – Composition/Information on Ingredients

Common Name(s): Alum

Chemical family: inorganic, salt

Components	CAS#	Weight %
Aluminum Sulfate (as anhydrous)	10043-01-3	<29%
Water (including waters of hydration)	7732-18-5	>71%

Section 4 – First-Aid Measures

Skin/Eye Contact:

For skin, immediately remove contaminated clothes under safety shower. Flush skin with running water for at least 15 minutes. Launder clothes before reuse. For eyes, flush carefully in eye wash for several minutes; remove contact lenses if present and easy to do; cautiously flush person's eyes with running water for at least 15 minutes. Seek Medical attention if irritation persists.

Ingestion:

Rinse mouth. Immediately dilute swallowed material by orally administering large amounts of water or milk. DO NOT INDUCE VOMITING. NEVER administer liquids orally to an unconscious person. Call physician or poison control center if person feels unwell or more than a few drops are ingested.

Inhalation:

Seek medical assistance if irritation is noted, person is having difficulty breathing, or the possibility exists of fluid in the lungs. Remove victim from the contaminated atmosphere. If breathing stopped, give artificial respiration. Weak breathing may be supplemented with a bag-mask or manually operated air supply that delivers at least 1 liter/second.

Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 5 – Fire-Fighting Measures

Suitable Extinguishing Media:	Not combustible. Use extinguishing agents appropriate for surrounding fire
Special Fire Fighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion byproducts by wearing a self contained breathing apparatus. Dike area to prevent runoff and contamination of water source. Stay upwind and keep out of low areas.
Unusual Fire/Explosion:	Under fire conditions at temperatures greater than 650°C or 1202°F, decomposes to give off sulfur trioxide, an oxidizing agent which will support combustion. Sulfur trioxide will react to form sulfuric acid.

Section 6 – Accidental Release Measures

Spill or Leak:	Wear PPE appropriate for handling the material. No smoking or eating in spill areas. Absorb small spills with sand or vermiculite. Place contaminated material in appropriate container for disposal. If spilled on ground, the affected area should be removed to a depth of 1 to 2 inches and placed in an appropriate container for disposal. Large spills should be handled according to a predetermined plan. Do not flush material to public sewer systems or any waterways. Wear appropriate protective clothing and equipment during cleanup activities. Ensure adequate decontamination of tools and equipment following cleanup. Adequate ventilation is required when neutralizing spills / leaks.
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Section 7– Handling and Storage

Smoking and/or eating is not recommended in storage areas. Stainless steel or fiberglass tanks are recommended. Keep product away from heat sources and direct sunlight. Do not reuse storage containers unless properly reconditioned. Isolate appropriately from chemicals where low pH could create a hazardous byproduct; for example a combination with hypochlorite could lead to the evolution of chlorine gas.

Section 8– Exposure Controls/Personal Protection

Component	CAS#	OSHA PEL	ACGIH TLV
Aluminum Sulfate (as anhydrous)	10043-01-3	2.0 mg/m ³ (as Al)	2.0 mg/m ³ (as Al)

If airborne exposures exceed 1.0 mg/m³, a negative pressure air-purifying respirator is recommended. Cartridges must be NIOSH / MSHA approved against dusts and mists having TWA than 0.05 mg/m³

Eye wash and safety shower should be available near storage and usage points

Exposed skin and eyes should be protected and contact with skin and clothing avoided. Minimal PPE would be closed goggles and/or face shield and gloves (rubber, neoprene, PVC) with work clothing covering other exposed skin.

Arriving material may be hot; personnel performing unload operations should have additional PPE such as a rainsuit/slicker suit, goggles with faceshield, and appropriate footwear and gloves.

Section 9– Physical and Chemical Properties

Appearance	Clear, water white to amber	Upper/lower flammability or explosive Limits	N/A
Odor	N/A	Vapor pressure	Similar to water
Odor threshold	N/A	Vapor density	Similar to water
pH	1.4-2.6 (neat)	Relative density (15.6°C)	1.315-1.345
Melting point/freezing point	-15°C	Solubility	high in water
Initial boiling point	100°C	Partition coef n-octanol/water	N/A
Flash point	N/A	Auto-ignition temp	N/A
Evaporation rate	N/A	Decomposition Temp	650°C
Flammability	N/A	Viscosity	5-25 cP



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 10- Stability and Reactivity

Reactivity:	Stable at normal temperatures and pressures
Chemical stability:	Stable; water component can evaporate
Possibility of hazardous reactions:	May produce hazardous decomposition products if mixed with pH sensitive materials (e.g. chlorine gas when mixed with sodium hypochlorite).
Conditions to avoid:	Temperatures at or near to crystallization, -15°C or 4°F. At temperatures greater than 650°C or 1202°F, it decomposes to form aluminum oxide and sulfur trioxide
Incompatible materials:	Corrosive to carbon steel
Hazardous decomposition products:	This may include aluminum oxide and sulfur oxides.

Section 11- Toxicological Information

Acute Toxicity Estimate:	The acute oral LD50 is greater than 5,000 mg/kg.
Chronic Toxicity Estimate:	The acute oral LD50 is greater than 5,000 mg/kg.
Symptoms of Overexposure:	May cause skin and eye irritation. If inhaled, may cause headaches, nausea, and respiratory irritations.
Carcinogenicity:	Not listed as a carcinogen by NTP, IARC, or OSHA.
Other Possible Health Hazards:	The common recognized injury from Aluminum Sulfate is local tissue irritation. The irritating action is often from hydrolysis to form sulfuric acid and may occur from ingestion, skin or eye contact, or inhalation of dusts and mists. Remove victim from contaminated area. SKIN / EYES: May cause corneal burns or severe irritation in eyes. Fumes or mists may cause irritation or burns to skin. INGESTION: Oral and gastrointestinal irritation. Local tissue damage. Nausea, vomiting, diarrhea, and gastrointestinal bleeding may follow. Can be fatal if swallowed in sufficient quantities. INHALATION: Irritation of the respiratory system. Long term exposure may cause bronchial irritation, coughing, and bronchial pneumonia. Medical conditions generally aggravated are acute and chronic respiratory diseases.
Routes of Entry:	Ingestion, skin or eye contact, or inhalation of dusts and mists.

Section 12- Ecological Information

(For CAS 10043-01-3)	
Toxicity LC50 :	96h Mosquitofish: 235 mg/l (ECOTOX Database Ref 508, result 2063538)
Persistence and Degradability:	Can be eliminated from water by precipitation or flocculation

Section 13- Disposal Considerations

Disposal:	Contact site environmental personnel and/or state and federal agencies for disposal procedures that are in accordance with environmental regulations.
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Section 14- Transport Information

U.S. DOT

PROPER SHIPPING NAME: Corrosive liquid, Acidic, Inorganic, N.O.S. (contains Aluminum Sulfate)

HAZARD CLASS	UN ID NUMBER	PACKING GROUP	RQ (lbs)
8	UN3264	PG III	10,300



Aluminum Sulfate Solution

SAFETY DATA SHEET

Section 15 – Regulatory Information

SARA Title III information:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not listed

SECTION 313 TOXIC CHEMICAL: Not listed

RCRA HAZARD WASTE: Not listed

311/312 HEALTH & PHYSICAL HAZARDS:	Immediate	Delayed	Fire	Pressure	Reactivity
	YES	NO	NO	NO	NO
NFPA RATING	Health	Fire	Reactivity		
	1	0	1		

MAXIMUM USE LEVEL (water treatment): 150 mg/l

TSCA INFORMATION: Listed - Sulfuric Acid, aluminum salt (3:2) 10043-01-3

Section 16– Other Information

Date of preparation: 7/3/18 Version SDS 3.0**Summary of changes:** Modified Sections 2,3,8,9,14**Disclaimer of Warranty:**

The information provided in the Safety Data Sheet has been obtained from sources believed to be reliable. Affinity Chemical LLC. provides no warranties; either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Affinity Chemical LLC. knows of no medical condition, other than those noted on this safety data sheet, which are generally recognized as being aggravated by exposure to this product.

TRINTERNATIONAL

Chemical & Raw Material Sourcing: Custom Tailored
"SUPPLYING INDUSTRY WORLDWIDE"

CAPABILITIES STATEMENT

TRINTERNATIONAL, INC. is a full-line chemical distributor. We provide creative sourcing solutions as a world-class distributor of raw materials. Our team brings quality product alternatives, extensive product knowledge, and industry experience with attention to personal customer service. We take the time to recognize your needs, understand your business, and solve your sourcing challenges.

As a small business with SBA WOSB, WBENC, & NGLCC certifications, TRI is committed to Excellence for our State, Federal, and Commercial clients.

Vendor Identification Numbers

DUNS Number: 868851247

CAGE Code: 6J2V4

FEIN: 91-1644239

NAICS: 424690, 423850, 423450 SIC: 5169, 2819

DBA: TRI Chemicals, Inc.; TRINTERNATIONAL, INC.

Certifications & Memberships

- SBA WOSB Women-Owned Small Business Certified
- WBENC Women-Owned Business Enterprise Certified
- LGBT Business Enterprise (LGBTBE) Certified
- NACD National Association of Chemical Distributors
- GSBA Greater Seattle Business Association
- Simplified Acquisition Program and System for Award Management (SAM) registration with US Federal Contractor Registration (USFCR)

Core Competencies

- Raw Materials Product and Sourcing Solutions
- PPE / Healthcare Products and Sourcing Solutions
- Dedicated Operations, Logistics, and Support
- Customer specific sourcing and supply
- Custom Manufacturing, Formulation, Packaging, and Storage

Differentiators

- We secure "hard to source" products from domestic and international sources
- Verified 'Responsible Distributor' and active National Association of Chemical Distributors (NACD) member.
- Trusted industry experts for over 25 years – Established 1994

Support & Logistics

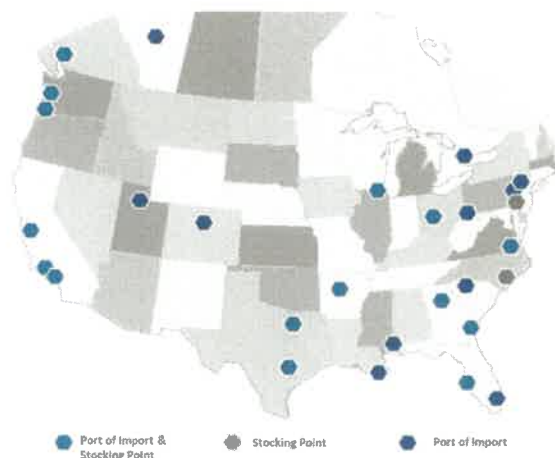
- Dedicated one-on-one support staff, customer service, and sales
- Experts in domestic and international market conditions
- Nation-wide warehousing and stocking points
- Quality product alternatives and functional offsets
- Pre-shipment samples for special specification products

Leading Products

- Finished Hand Sanitizer, both alcohol and alcohol-free
- Propylene Glycol (PG) & Dipropylene Glycol (DPG)
- Benzyl Alcohol
- Ethyl Alcohol (OH) & Isopropyl Alcohol (IPA)
- Hydrocarbon Resins
- Glycol Ethers & Specialty Glycol Ethers
- Caustic Soda & Caustic Potash

Awards & Recognitions

- ICIS Chemical - Independent Chemical Information Service
 - Top 100 Chemical Distributors, #64 in North America, 2019
 - Top 100 Chemical Distributors, #70 in North America 2018
- PSBJ - Puget Sound Business Journal
 - Largest LGBTQ-Owned Businesses, #1 – June 2020
 - Largest Women-Owned Businesses, #7 – May 2020
 - Largest Private Companies, #118 – April 2020
 - 40 Under 40 honoree, Megan E. Gluth-Bohan, Esq., 2016
 - Top 100 Fastest-Growing WA Private Businesses: 2010, 2009, 2005
 - Largest Private Companies – WA: 2020, 2014, 2013



Contact Information

TRINTERNATIONAL

TR International Trading Company

22817 102nd Place West

Edmonds, WA 98020, USA

P: +1(206) 505-3500 F: +1(206) 505-3501

E: info@trichemicals.com

URL: www.trichemicals.com



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Chemical Distributors



SBA WOSB
Woman Owned Small Business



nglcc
Certified LGBTBE



www.trichemicals.com

TRINTERNATIONAL

WATER TREATMENT RAW MATERIALS

TRInternational, Inc. (TRI) provides creative sourcing solutions, quality product alternatives and personal customer service as a world-class, full-line global chemical distributor to the Water Treatment industry. The list below represents our featured raw materials, strongest products and best sourcing positions.

Cooking & Boiler Treatment
Odor Control
Wastewater Treatment

Drinking Water Treatment
Filtration

Disinfection
pH Control
Softening

Acetic Acid
Activated Carbon
Aluminum Sulfate
Ascorbic Acid
Calcium Chloride
Calcium Hydroxide
Calcium Hypochlorite
Carbon
Caustic Potash (Potassium Hydroxide)
Caustic Soda, Liquid (Sodium Hydroxide)
Caustic Soda, Solid (Sodium Hydroxide)
Copper Sulfate
Diatomaceous Earth
Ethyl Alcohol
Ferric Chloride
Ferric Salts
Ferric Sulfate
Ferrous Chloride
Ferrous Salts
Ferrous Sulfate
Glycerine
Hydrochloric Acid (Muriatic Acid)
Hydrofluorsilic Acid
Hydrogen Peroxide

Isopropyl Alcohol
Lime
Magnesium Chloride
Magnesium Hydroxide
Methanol
Mineral Oils
Nitric Acid
Phosphates
Phosphoric Acid
Potassium Permanganate
Silicates
Sodium Bicarbonate
Sodium Bisulfate Solution
Sodium Bisulfite Solution
Sodium Carbonate (Soda Ash)
Sodium Chloride (Salt)
Sodium Chlorite
Sodium Hypochlorite
Sodium Metabisulfite
Sodium Permanganate
Sulfuric Acid

Featured raw materials for
Water Treatment

www.trichemicals.com/industries

TRINTERNATIONAL

SUPPLYING INDUSTRY WORLDWIDE

Features & Services

- Raw Materials Product & Sourcing Solutions
- PPE / Healthcare Products & Sourcing Solutions
- Dedicated Operations, Logistics, & Support
- Customer specific sourcing & supply
- Custom Manufacturing, Formulation, Packaging, & Storage
- We secure "hard to source" products
- National Association of Chemical Distributors (NACD) member
- Verified 'Responsible Distributor'
- Proudly Women-Owned & Veteran Founded
- Established 1994, trusted industry experts

TRI USA Regional Locations

West Coast	Midwest	Northeast
Southwest	Mid-South	Southeast

Custom Blending Facility

Chicago, IL, USA

Supplier Partnerships & Sourcing Agents:

Middle East	Taiwan
China	Japan
India	Germany
South Korea	Turkey
Thailand	Canada



Major Stocking Points

Atlanta, GA	Edmonton, AB	Oakland, CA
Chicago, IL	Houston, TX	Savannah, GA
Cleveland, OH	Little Rock, AK	Seattle, WA
Columbus, Ohio	Mobile, AL	Simpsonville, SC
Dallas, TX	Newark, NJ	St. Louis, MO
Denver, CO	Norfolk, VA	Tampa, FL
		Vancouver, BC

Major Sourcing Points

Belgium	Italy	South Africa
Brazil	Japan	Taiwan
China	Korea	Thailand
Germany	Netherlands	Turkey
India	Spain	USA

Industries Served

Adhesives & Sealants	Inks & Dyes	Personal Care
Chemical Formulating	Metal Work, Care & Cleaning	Plastics & Rubber
Composites	Mining	Polymer Building Block
Food Ingredients	Oil & Gas	PPE & Healthcare
Household & Industrial Cleaning	Paint & Coatings	Water Treatment

TRINTERNATIONAL

22817 102nd Place West, Edmonds, WA 98020, USA

P: +1(206) 505-3500 @TRICHEMICALS



a proud member of
nacd
National Association of
Chemical Distributors



SBA WOSB
Woman Owned Small Business



www.trichemicals.com



hereby grants

National Women's Business Enterprise Certification

to

TR International Trading Company

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).

This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

WBENC National WBE Certification was processed and validated by Women's Business Enterprise Council - Pacific, a WBENC Regional Partner Organization.

Certification Granted: November 3, 2020
Expiration Date: November 30, 2021
WBENC National Certification Number: WBENC002806

WBEPACIFIC
NORTHWESTERN UNIVERSITY

Authorized by Janice Greene, PhD, President & CEO
Women's Business Enterprise Council - Pacific

NAICS: 424690, 325510
UNSPSC: 12161900, 12161901, 12161902, 12161903, 12161904, 12161905, 12161906, 12161907, 12161908, 12161910, 12161911, 12161912, 12161913, 12162100, 12162101, 12162200, 12162201, 12162202, 12162203, 12162204, 12162205, 12162206, 12162207, 12162208, 12162209, 12162210, 12162211, 12162212, 12162300, 12162301, 12162302, 12162303, 12162304, 12162305, 12162400, 12162401, 12162402, 12162500, 12162501, 12162502, 12162503, 12162701, 12162702, 12162800, 12162801, 12162802, 12163100, 12163101, 12163102, 12163500, 12163501, 12163600, 12163601, 12163602, 12163900, 12163901, 12163902, 12164200, 12164201, 12164300, 12164301, 12164302, 12164303, 12164400, 12164401, 12164500, 12164501, 12164502, 12164503, 12164504, 12164506, 12164507, 12164508, 12164509, 12164600, 12164601, 12164602, 12164603, 12164604, 12164605, 12164606, 12201500, 12201501, 12201502, 12201503, 12201504, 22451005, 12201600, 12201601, 12201602, 12201603, 12352100, 12352101, 12352102, 12352103, 12352104





The Public Health and Safety Organization

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<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?>

[CompanyName=Affinity&ChemicalName=Aluminum+Sulfate&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Affinity&ChemicalName=Aluminum+Sulfate&)

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

Affinity Chemical LLC

3016 Southwestern Boulevard

P.O. Box 601298

Dallas, TX 75360-1298

United States

972-880-1493

[Visit this company's website](#)

Facility : # 1 USA

Aluminum Sulfate [AL]

Trade Designation

AC2401

AC2403

AC2405

AC2407

AC2409

Acid Alum

Alum

Alum C[1] [CP]

Aluminum Sulfate C[1] [CP]

Aluminum Sulfate Solution

Product Function

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Max Use

100mg/L

100mg/L

100mg/L

100mg/L

100mg/L

400mg/L

400mg/L

150mg/L

150mg/L

400mg/L

[1] This product contains copper and may increase the amount of copper present in the finished drinking water. Following use of this product, the finished drinking water should be monitored to ensure that levels of copper do not exceed regulatory requirements.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished

drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do not exceed 1.3 mg/L.

Facility : # 2 USA

Aluminum Sulfate [AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
AC2401	Coagulation & Flocculation	100mg/L
AC2403	Coagulation & Flocculation	100mg/L
AC2405	Coagulation & Flocculation	100mg/L
AC2407	Coagulation & Flocculation	100mg/L
AC2409	Coagulation & Flocculation	100mg/L
Acid Alum	Coagulation & Flocculation	400mg/L
Alum	Coagulation & Flocculation	400mg/L
Alum C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate Solution	Coagulation & Flocculation	400mg/L

[1] This product contains copper and may increase the amount of copper present in the finished drinking water. Following use of this product, the finished drinking water should be monitored to ensure that levels of copper do not exceed regulatory requirements.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do not exceed 1.3 mg/L.

Facility : # 3 USA

Aluminum Sulfate [AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
AC2401	Coagulation & Flocculation	100mg/L
AC2403	Coagulation & Flocculation	100mg/L
AC2405	Coagulation & Flocculation	100mg/L
AC2407	Coagulation & Flocculation	100mg/L
AC2409	Coagulation & Flocculation	100mg/L
Acid Alum	Coagulation & Flocculation	400mg/L
Alum	Coagulation & Flocculation	400mg/L
Alum C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate Solution	Coagulation & Flocculation	400mg/L

[1] This product contains copper and may increase the amount of copper present in the finished drinking water. Following use of this product, the finished drinking water should be monitored to ensure that levels of copper do not exceed regulatory requirements.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished

drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do

not exceed 1.3 mg/L.

Facility : # 4 USA

Aluminum Sulfate [AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
AC2401	Coagulation & Flocculation	100mg/L
AC2403	Coagulation & Flocculation	100mg/L
AC2405	Coagulation & Flocculation	100mg/L
AC2407	Coagulation & Flocculation	100mg/L
AC2409	Coagulation & Flocculation	100mg/L
Acid Alum	Coagulation & Flocculation	400mg/L
Alum	Coagulation & Flocculation	400mg/L
Alum C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate Solution	Coagulation & Flocculation	400mg/L

[1] This product contains copper and may increase the amount of copper present in the finished drinking water. Following use of this product, the finished drinking water should be monitored to ensure that levels of copper do not exceed regulatory requirements.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do

not exceed 1.3 mg/L.

Facility : # 5 USA

Aluminum Sulfate[AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
AC2401	Coagulation & Flocculation	100mg/L
AC2403	Coagulation & Flocculation	100mg/L
AC2405	Coagulation & Flocculation	100mg/L
AC2407	Coagulation & Flocculation	100mg/L
AC2409	Coagulation & Flocculation	100mg/L
Acid Alum	Coagulation & Flocculation	400mg/L
Alum	Coagulation & Flocculation	400mg/L
Aluminum Sulfate Solution	Coagulation & Flocculation	400mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Facility : # 6 USA

Aluminum Sulfate [AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
AC2401	Coagulation & Flocculation	100mg/L
AC2403	Coagulation & Flocculation	100mg/L
AC2405	Coagulation & Flocculation	100mg/L
AC2407	Coagulation & Flocculation	100mg/L
AC2409	Coagulation & Flocculation	100mg/L
Acid Alum	Coagulation & Flocculation	400mg/L
Alum	Coagulation & Flocculation	400mg/L
Alum C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate C[1] [CP]	Coagulation & Flocculation	150mg/L
Aluminum Sulfate Solution	Coagulation & Flocculation	400mg/L

[1] This product contains copper and may increase the amount of copper present in the finished drinking water. Following use of this product, the finished drinking water should be monitored to ensure that levels of copper do not exceed regulatory requirements.

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do not exceed 1.3 mg/L.

Facility : Prattville, AL**Aluminum Sulfate[AL]**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Acid Alum	Coagulation & Flocculation	400mg/L
Alum	Coagulation & Flocculation	400mg/L
Aluminum Sulfate Solution	Coagulation & Flocculation	400mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Number of matching Manufacturers is 1

Number of matching Products is 61

Processing time was 1 seconds

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FINANCIAL SERVICES
212 SW 9th Street
Lawton, Oklahoma 73501
(580) 581-3328 Ext. 4 FAX (580) 581-3438

August 3, 2021

Interested Vendor:

SUBJECT: Special Instructions for Submission of Bid Packet

If you desire to submit a bid for **CL20-028 Liquid Aluminum Sulfate**, this letter is provided to clarify problem areas.

The bid packet is composed of the following documents:

- Invitation for Bid and Contract with General Instructions
- Affidavit For Payments In Excess Of Twenty-Five Thousand Dollars (\$25,000.00)
- Department Specifications / Compliance Sheet
- Price Bid Sheet

You must include the following items in your bid packet or your bid cannot be considered:

- Page 1 of the Invitation for Bid/Contract must be returned. It must be the **original properly signed and notarized**.
- Price Bid Sheet and specifications sheets (with vendor's comments if applicable)

Please submit two (2) copies of any additional documents such as descriptive literature, samples, material safety data sheets or references. Please note that in some specifications, the submittal of the additional documents is required. If the documents are required and are not submitted, your bid may be considered non-responsive.

If you will require additional documents to be executed such as service agreements etc., they must be submitted for legal review with your bid. No additional documents shall be considered or executed following bid submission unless it is deemed necessary by the City.

Bid openings are held at 212 SW 9th Street Lawton, OK 73501 in the 2nd floor Conference Room @ 2:00 pm. Bid results may be obtained by attending the bid opening, making a written request and enclosing a stamped, self-addressed envelope, or by fax. Bid results are not available by telephone. Please specify if you desire the bid results or the results of who received the contract. Contract award information will not be available until the City Council awards the contract. Information will be mailed or faxed to the requester.

Examine your bid packet carefully as soon as you receive it. If any of the requested items are missing or if you have questions about the bid packet, contact Marcie Sego via email at Marcie.sego@lawtonok.gov or Maegan Dowlen via email at maegan.dowlen@lawtonok.gov.

Sincerely,

Maegan Dowlen
Contract Administrator
Financial Services

City of Lawton

INVITATION TO BID AND CONTRACT

MAIL SEALED BIDS TO: City Clerk City of Lawton 212 SW 9th Street Lawton, OK 73501		DIRECT INQUIRIES TO: Marcie Sego, Buyer marcie.sego@lawtonok.gov Maegan Dowlen, Contract Administrator maegan.dowlen@lawtonok.gov	
Date Bid Typed:	Dates Bid Advertised:	No Bids Received After:	
August 3, 2021	August 4, 2021	August 24, 2021	2:00 P.M.
Contract Number and Title:		Requirements-type Contract: YESX	Contract Period:
CL20-028 LIQUID ALUMINUM SULFATE		12 months	
Bid Openings are held at Lawton City Hall 2nd Floor Conference Room 212 SW 9th Street Lawton, OK 73501 @ 2:00 pm			
Vendor Name and Point of Contact:		Reason for No Bid:	
CHEMTRADE CHEMICALS US LLC / ELIZABETH RYNO			
Mailing Address:		Terms:	
90 EAST HALSEY ROAD, SUITE 200		NET 30 DAYS FROM DATE OF SHIPMENT	
City:	State:	Zip:	Delivery:
PARSIPPANY, NJ	07054		2 - 3 DAYS A.R.O.
Area Code and Phone Number:		FAX Area Code and Phone Number:	
800-441-2659		973-515-4461	
Federal Employer Identification Number or Social Security Number			
74-3104940			

THIS BID INVALID IF NOT SIGNED AND NOTARIZED

AFFIDAVIT: STATE OF NEW JERSEY COUNTY OF MORRIS

ELIZABETH RYNO

of lawful age, being first duly sworn, on oath says that:

1. Affiant is the duly authorized agent of the bidder/vendor and/or contractor submitting the competitive bid and executing the contract which is attached to this statement, and that as such agent Affiant has the authority to bind the bidder/vendor, whether an individual, partnership, or corporation, for the purpose of negotiating and entering into said agreement, and for certifying the facts pertaining to the existence of collusion among bidders and between bidders and City officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached; 2. Affiant is fully aware of the facts and circumstances surrounding the making of the bid and/or the procurement of the contract to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bids; 3. Neither the bidder/vendor nor anyone subject to the bidder/vendor's direction or control has been a party: a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding, b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor d. to paying, giving or donating or agreeing to pay, give or donate to any officer or employee of the City of Lawton, any money or other thing of value, either directly or indirectly, in procuring the contract to which his statement is attached 4. Affiant further agrees to be held personally liable in the event that Affiant has misrepresented the scope or extend of Affiant's authority to bind the bidder herein, and to indemnify and hold harmless the City of Lawton its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned from all damages based upon such misrepresentation, including but not limited to all costs and attorney fees incurred, in addition to any other remedies available by law.

Elizabeth Ryno
 SIGNATURE OF AUTHORIZED AGENT

Firm: CHEMTRADE CHEMICALS US LLC

ELIZABETH RYNO, MARKETING SPECIALIST
 PRINT/TYPE NAME/TITLE

Address: 90 EAST HALSEY ROAD, SUITE 200

Subscribed & sworn before me this 19th day of August, 2021

PARSIPPANY, NJ 07054

(City, State, Zip)

Christine A. LaSala
 Notary Public

Phone: 800-441-2659

My Commission expires:

INVITATION TO BID AND CONTRACT
 PAGE 1 OF 11

Christine A. LaSala
NOTARY PUBLIC OF NEW JERSEY
Commission # 50162901
My Commission Expires 3/4/2026

GENERAL CONDITIONS FOR BIDDING REQUIREMENTS CONTRACTS WITH THE CITY OF LAWTON, OKLAHOMA.

**BIDDER – TO INSURE ACCEPTANCE OF THE BID,
CAREFULLY FOLLOW THESE INSTRUCTIONS. FAILURE
TO DO SO MAY RESULT IN THE REJECTION OF YOUR BID
WITHOUT FURTHER CONSIDERATION OR NOTICE TO YOU.**

SEALED BIDS: All bid sheets and this form must be executed and submitted in a sealed envelope. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE). The face of the envelope shall contain, in addition to the address on page one (1) of this document, the date and time of the bid opening and the contract number. Bids not submitted on this bid form shall be rejected. All bids are subject to the conditions specified herein. **Those which do not comply with these conditions are subject to rejection.** Bids will be considered only on first quality products. Bid files which include copies of specifications, drawings, schedules or special instructions are on file with the City Clerk and may be examined during normal working hours.

1. **EXECUTION OF BID AND CONTRACT:** Bid and contract documents must contain an original signature of authorized representative in the space provided. Bid must be typed or printed in ink. Use of erasable ink is not permitted. ALL CORRECTIONS MADE BY BIDDER/VENDOR TO BID PRICE MUST BE INITIALED. Do not use white out, correction tape or some other method of masking a correction.
2. **NO BID:** If not submitting a bid, respond by returning page one (1), marking it "NO BID" and explain the reason in the space provided above. Failure to respond 3 times in succession shall be cause for removal of the supplier's name from the bid mailing list, without further notice. NOTE: To qualify as having responded, bidder/vendor must submit a "NO BID", and it must be received no later than the stated bid opening date and hour.
3. **OBJECTIONS/CHALLENGE:** Should a bidder/vendor have an objection to or challenge the specifications, the bidder/vendor is responsible for making this known in writing so as to reach the City Clerk no later than seven (7) calendar days prior to the bid opening date. The envelope shall be marked in such a way to alert the City Clerk of the urgency in order to immediately notify the Purchasing Division. The envelope will be marked indicating that the content is a challenge to a specified Invitation to Bid. For all challenges considered valid by the Purchasing Supervisor, all vendors on the original mailing list will be provided an addendum which addresses the challenge. Challenges/Objections not considered valid will be so stated to the objecting party.
4. **BID OPENING:** Bid opening occurs at the time specified on the bid form. It is the bidder/vendor's responsibility to assure that the bid is delivered at the proper time and place of the bid opening. Bids, which for any reason are not delivered, will not be considered. Offers by telegram, facsimile or telephone are not acceptable. NOTE: Bid files may be examined during normal working hours by appointment, after the date and time of bid opening. Bid tabulations WILL NOT be provided by telephone. Bid tabulations will be provided by mail at the written request of the bidder/vendor. Bid and contract documents are the property of the City and are subject to the provisions of the Oklahoma Open Records Act.
5. **WITHDRAWAL OF BID:** Bids may be withdrawn at any time prior to the bid opening date and time. After bids are opened, all bids will be considered firm and valid until award of contract is made.

6. **AWARDS:**

- a. As the best interest of the City may require, the right is reserved to:
 - 1. Award by individual item, group of items, all or none, or a combination thereof.
 - 2. Award based upon a geographical district basis with one or more suppliers.
 - 3. To reject any and all bids or waive any minor irregularity or technicality in bids received.
- b. Bidder/vendors are cautioned to make no assumptions regarding their success on the awarding of any contract unless their bid has been evaluated as being responsive, the contract awarded by City Council, and appropriate documents executed. The City of Lawton reserves the right to add or delete any item from this contract when deemed to be in the City's best interest.

- 7. **ACCEPTANCE OF CONTRACT:** This document constitutes only the bidder/vendor's bid until it is accepted by the City Council for the City of Lawton and is executed by the Mayor and City Clerk on behalf of the City of Lawton.
- 8. **WAIVER:** The City of Lawton reserves the right to waive any General Provisions, Special Provision, or minor specification deviation when considered to be in the best interest of the City.
- 9. **CHANGES TO SPECIFICATIONS:** Bids are to be submitted in accordance with the specifications provided. Any exceptions to the specifications must be indicated in the place provided on the specification page(s) or by separate letter from the bidder/vendor, if a place is not provided in the specifications. Changes in specification reducing the quality, versatility or applicability of the product or service shall cause the rejection of the bid. The City shall make the final determination. Failure to notice the City of the deviation from the specification may cause the bid to be rejected at the discretion of the City.
- 10. **MISTAKES:** Bidder/Vendors are expected to examine the specifications, delivery schedule, bid prices and all instructions pertaining to supplies and services. Failure to do so will be at bidder/vendor's risk. In all cases, the UNIT PRICE WILL GOVERN.
- 11. **INFORMATION:** The bidder/vendor must provide information pertinent to items you are bidding. Complete catalogues are not necessary. If furnished, however, the bidder/vendor must identify the exact location in the catalogue and circle or identify clearly the item being bid.
- 12. **MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS:** Any manufacturers' names, trade name brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. The bidder/vendor may offer any brand for which he is an authorized representative, which meets or exceeds the specification for any item(s). If bids are based on equivalent products, indicate on the bid form the manufacturer's name and model number. Bidder/Vendor shall submit with his proposal sketches, descriptive literature, and/or complete specifications. References to literature submitted with a previous bid will not satisfy this provision. The bidder/vendor shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids, which do not comply with these requirements, are subject to rejection. Bids lacking any written indication of intent to

quote an alternate brand will be received and considered to be in complete compliance with the specifications as listed on the bid form.

13. **SAMPLES:** Samples of items, when called for, must be furnished free of charge and at no expense to the City. Each individual sample must be labeled with bidder/vendor's name, manufacturer's brand name and number, contract number and item reference, or as specified in the attached special conditions. Samples will not be returned.
14. **TESTING:** When testing is required to determine if a sample or an awarded product meets specifications and it is determined that the product fails to meet specifications, the cost of testing shall be borne by the vendor, both on samples and delivered products.
15. **NONCONFORMANCE TO CONTRACT CONDITIONS:** Items may be tested for compliance with specifications by appropriate testing laboratories or by the City. The data derived from any tests for compliance with specifications are public records and open to examination thereto in accordance with Oklahoma Statutes. Items delivered not conforming to specifications will be rejected and returned to the bidder/vendor at the bidder/vendor's expense. Any violation of these stipulations may result in supplier's name being removed from the City of Lawton Purchasing bidder/vendor mailing list, and the City may pursue any and all other remedies available either in equity or by law.
16. **CONDITION AND PACKAGING:** It is understood and agreed that any item offered for shipped as a result of this bid shall be new (current model at the time of the bid). All containers shall be suitable for storage or shipment and all prices shall include standard commercial packaging.
17. **INSPECTION, ACCEPTANCE and TITLE:** Inspection and acceptance will be at the destination unless otherwise provided. "Destination: shall mean delivered to the receiving dock, department stockroom, or other point specified. The City accepts no responsibility for goods until accepted at the receiving point in good condition. Title and risk of loss or damage to all items shall be the responsibility of the bidder/vendor until accepted by the ordering agency. The bidder/vendor shall be responsible for filing, processing and collecting all damage claims. However, to assist him in the expeditious handling of damage claims the ordering department will:
 - a. Record any evidence of visible damage on all copies of the delivering carrier's Bill of Lading.
 - b. Report damage (whether visible or concealed) to the carrier and bidder/vendor, conforming such reports, in writing, within fifteen (15) days of delivery, requesting that the carrier inspects the damaged merchandise.
 - c. Retain the item and it's shipping container including inner packaging material, until inspection is performed by the carrier, and disposition given by the bidder/vendor, or for a reasonable time after notification to the bidder/vendor.
 - d. Provide the bidder/vendor with a copy of the carrier's Bill of Lading and damage inspection report.
18. **SAFETY STANDARDS:** Unless otherwise stipulated in the bid, all manufactured items or fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards thereunder.

19. **SERVICE AND WARRANTY:** Unless otherwise specified, the bidder/vendor shall define any warranty service and replacements that will be provided during and subsequent to this contract. Bidder/Vendors must explain on an attached sheet to what extent warranty and service facilities are provided. Unless otherwise indicated in this agreement, upon acceptance of this contract by the City, bidder/vendor expressly warrants that all articles, materials, supplies, equipment, and/or services covered in this contract will conform to the specification attached hereto and made a part hereof; and further warrants that same shall be good material and workmanship, and free from defects.
20. **REMEDIES:** Failure to make delivery or to meet specifications authorizes the City to seek replacement goods or services elsewhere and to seek legal remedies against the defaulting bidder/vendor. If any of the goods and/or work performed fails to meet the warranties contained herein, bidder/vendor upon notice thereof from the City shall promptly correct or replace the same at bidder/vendor's expense. If bidder/vendor shall fail so to do, the City may cancel this order as to all such goods and in addition, may cancel the remaining balance of this order and pursue all other remedies available. After notice to the bidder/vendor, all such goods will be held at bidder/vendor's risk. The City may and at bidder/vendor's direction shall, return such goods to bidder/vendor at bidder/vendor's risk, and all transportation charges, both to and from original destination, shall be paid by bidder/vendor. Any payment for such goods shall be refunded by bidder/vendor unless bidder/vendor promptly corrects or replaces the same at its expense.
21. **AUTHORIZED USERS:** Bids shall cover requirements during the specified period for all Municipal Departments, Boards, Commissions, Agencies, and Institutions.
22. **LIABILITY:** The bidder/vendor shall hold and save the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned harmless against the claims by third parties resulting from the supplier's breach of this contract or the supplier's negligence.
23. **PRICES AND TERMS:** Unless otherwise provided in the bid specifications, firm fixed prices shall be bid F.O.B Lawton at the indicated department's address and include packing, handling and shipping charges fully prepaid by the vendor. Bid prices shall be valid for a minimum of sixty (60) days from the date of bid opening.
24. **ACCEPTANCE OF PURCHASE ORDERS:** Bidder/vendor are to accept only those purchase orders issued by the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned, prepared on Accounting Division Forms unless instructed otherwise in the invitation to bid or executed contract agreement.
25. **PRICE ADJUSTMENTS:** Manufacturer's price increases, or other increases in the cost of doing business MAY NOT be passed on to the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned, nor may the vendor withdraw or cancel the proposal, or any resulting agreement, or any part of the proposal or agreement for these reasons. Vendors may only cancel the contract, pursuant to the cancellation clause, if one is included as a part of the Invitation to Bid, and then only if the contractual obligation has been fulfilled by the bidder/vendor in accordance with the terms stated. Bids which reflect that the price of an item is based upon "market price" or is "subject to increase" based upon some event, or otherwise indicates that prices reflected are infirm or subject to change will be deemed non-conforming unless the bid specifications specifically provide for price escalation.

26. **SUMMARY OF TOTAL SALES:** The bidder/vendor agrees to furnish City of Lawton Purchasing Division a summary of sales, including total dollar amount, made under the contract at the end of each quarter, or as stipulated in the attached special conditions.
27. **PAYMENT:**
- a. **INVOICING:** The vendor shall be paid within a reasonable time after submission of proper certified invoices to the City at the prices stipulated on the contract. Invoices shall contain the contract number and purchase order number. Failure to follow these instructions may result in delay of processing invoices for payment. The Company or Corporation bidding shall be the only office authorized to receive orders, do the billing and invoicing and receive payment. If the bidder/vendor wishes to ship or service from a point other than the home office he will furnish a list of these locations. **HOWEVER, NO ORDERS WILL BE PRESENTED TO, BILLING WILL NOT BE DONE FROM NOR WILL PAYMENT BE MADE TO THESE LOCATIONS.**
 - b. **REQUIREMENTS ONLY PURCHASES:** The proposed Contract shall be for the quantities actually ordered during the life of the contract only. **UNLESS OTHERWISE SPECIFIED, ALL CONTRACTS ARE REQUIREMENTS-TYPE CONTRACT,** meaning that quantities indicated are only estimates of those actually needed, and actual quantities may be greater or less than those indicated. Billing shall be made in accordance with instructions by department or division issuing the purchase order, and only for quantities actually ordered and delivered. The City does not promise to purchase the quantity shown. The City reserves the right to purchase none of the product or more than shown.
 - c. **Taxes:** Purchases by the City of Lawton are not subject to any Sales Tax or Federal Excise Tax. Exemption Certificates will be furnished upon request.
 - d. **Discounts:** Bidder/Vendors may offer a cash discount for prompt payment; however, such discounts shall not be considered in determining the lowest net cost for bid evaluation purposes. Bidder/Vendors are encouraged to reflect cash discounts in the unit prices quoted. Discount time will be computed from the date of satisfactory delivery at place of acceptance or from receipt of correct invoice at the office specified, whichever is later.
 - e. All provisions of the Uniform Commercial Code shall be adhered to.
28. **EXTENSION:** At the end of the contract period, or upon the conclusion of a maximum of one (1) extension thereof, the contract may be extended for a period not to exceed twelve (12) months at the same price and conditions as in the original contract, by mutual agreement between the City and the bidder/vendor. The extended contract shall, upon the signing by both parties, become a binding agreement and shall remain in force and effect until terminated by either party, provided that either party to the contract shall have the option to terminate said extended contract upon thirty days' prior written notice of termination by one party to the other.
29. **CONFLICT OF INTEREST:** The Invitation to Bid hereunder is subject to the provisions of City of Lawton Charter and City Code. All bidder/vendors must disclose with the bid the name of any officer, director or agent who is also an employee of the City of Lawton or any of its agencies or subdivisions. Further, all bidder/vendors must disclose the name of any City employee who owns, directly or indirectly, an interest of five percent (5%) or more in the bidder/vendor's firm or any of its branches.

30. **PATENTS AND ROYALTIES:** The bidder/vendor, without exception, shall indemnify and save harmless the City of Lawton, its departments, boards, commissions, agencies, institutions and all employees of the aforementioned from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract including its use by the City of Lawton. If the bidder/vendor uses any design, device or materials covered by letters, patent copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or cost rising from the use of such design, device, or materials in any way involved in the work.
31. **FACILITIES:** The City reserves the right to inspect the bidder/vendor's facilities at any time with reasonable prior notice.
32. **BANKRUPTCY:** If the bidder/vendor becomes bankrupt or insolvent, or if a petition in bankruptcy is filed against the bidder/vendor, or if a receiver is appointed for the bidder/vendor, the City shall have the right to terminate this contract upon written notice to the bidder/vendor without prejudice to any claim for damages or any other right of the City under this contract at the time of such termination.
33. **ASSIGNMENT:** This contract shall not be assigned by the bidder/vendor without written consent of the City.
34. **INSURANCE:** If insurance is required in the specifications to this agreement, unless otherwise specifically stated, proof of the following types and amounts shall be furnished to the City, showing the City as an additional insured thereunder without cost to the City of Lawton, prior to the awarding of the contract:
- a. **General Liability:** The bidder/vendor shall procure and maintain in full force and effect, for the term of the Contract, a policy or policies under a comprehensive form as required by state law. In addition, the bidder/vendor shall have, during the term of the Contract, insurance in the minimum amount of twenty-five thousand dollars (\$25,000) property damages, arising from a single occurrence. One hundred twenty-five thousand dollars (\$125,000) for personal injuries arising from a single occurrence, and one million dollars (\$1,000,000) for any number claims arising out of a single occurrence or accident. This policy or policies shall hold harmless and indemnify the City of Lawton its department boards, commissions, agencies, institutions and all employees of the aforementioned. A current certificate showing that the bidder/vendor has in force and effect such insurance shall be maintained on file with the City Clerk of the City.
 - b. **Automobile Liability:** The bidder/vendor shall procure and maintain in full force and effect, for the term of the Contract, vehicle liability coverage in the amounts specified in subparagraph A of this section. In addition, the bidder/vendor shall have, during the term of the Contract, vehicle liability coverage as outlined in the attached specifications. If higher coverage is required by any regulatory entity with oversight of the bidder/vendor's business, the City Code, or other authority, then proof of the higher coverage must be provided. This policy or policies shall hold harmless and indemnify the City of Lawton, its departments, boards, commissions, agencies, institutions, and all employees of the aforementioned. A current certificate showing that the bidder/vendor has a policy shall be maintained on the file with the City Clerk of the City.

- c. **Worker's Compensation:** The bidder/vendor shall procure and maintain in full force and effect for the period of the Contract, full workers' compensation insurance in accordance with the laws of the State of Oklahoma to protect himself and the City against liability under the workers' compensation and occupational disease statutes of the State of Oklahoma. A current certificate showing that the bidder/vendor has in force and effect the aforesaid insurance or a current certificate showing exemption from the requirement shall be maintained on file with the City Clerk of the City.
- 35. **BONDS:** Neither Bidder's Bonds or Performance Bonds are required unless specifically set forth in the specifications attached hereto. If Bonds are required, the same shall be held under the following requirements and specifications unless otherwise indicated:
 - a. **Bidder's Bonds:** If required as a part of the specifications on this contract, bids filed with the Municipal Clerk must be accompanied by a Bidder's Bond, certified check or cashier's check in the amount state made payable to the City of Lawton. This amount will be retained by the City as damages in the event successful bidder/vendor fails to comply with the terms of this agreement, but shall in no way act as a remedy or limitation on damages available to the City, which may pursue any and all other remedies available either in equity or at law. All Deposits and Bonds will be returned to the unsuccessful bidder/vendor's within a reasonable time after the contract has been awarded, and to the successful bidder/vendor upon full performance of the contract. Bonds or funds deposited do not accrue interest while held.
 - b. **Performance Bonds:** If a performance Bond is required under the specifications of this agreement, the successful bidder/vendor must, prior to the award of the contract, post the bond, certified check or cashiers ck in the amount stated made payable to the City of Lawton. The Bidder's bond posted will be returned to the successful bidder/vendor upon posting of the Performance Bond and completion of any additional requirements for execution of the contract by the bidder/vendor. The performance bond will be released or returned to the bidder/vendor, as appropriate, after satisfactory completion of the contract and the performance period as stated in the specifications attached or any amendments thereto.
- 36. **TIME OF ESSENCE:** Unless otherwise stated time shall be considered of the essence to this agreement.
 - a. Bidder/vendor specifically agrees that it shall be liable for failure to deliver or delay in delivery occasioned by and including, without limitations, strikes, lockouts, inability of obtaining material or shipping space, breakdowns, delays of carrier's or suppliers, and pre-existing governmental regulations of the federal and state government or any subdivisions thereof, unless governmental acts and regulations affecting delivery could not be found, recognized, or discovered by due diligence on the part of the bidder/vendor prior to submission of his bid and the City Council's acceptance thereof.
 - b. When time is not of the essence this contract shall be inoperative during such period of time that aforesaid delivery or acceptance may be rendered impossible by reason of fire, strike, Acts of God, or government regulation. Provided, however, to the extent that the bidder/vendor has any commercially reasonable alternative method of performing his contract by purchase on the market or otherwise, he shall not be freed of his obligation hereunder by this clause.

37. **DISCRIMINATION:** Bidder/vendor agrees, in connection with the performance of work under this contract, as follows:
- a. Bidder/Vendor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin, ancestry, or physical or mental impairment. The bidder/vendor shall take affirmative action to insure that employees are treated without regard to their race, creed, color, sex, national origin, ancestry or physical or mental impairment. Such actions shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruiting or recruitment, advertising, lay-off, termination, rates of pay or other forms of compensation and selection for training, including apprenticeship. The bidder/vendor agrees to post in a conspicuous place available to employees and applicants for employment, notices setting forth provisions of this section.
 - b. The bidder/vendor agrees to include this non-discrimination clause in any subcontract connected with the performance under this contract.
 - c. In the event of the bidder/vendor's non-compliance with the above nondiscrimination clause, this contract may be terminated by the City. The bidder/vendor may be declared by the City ineligible for further contracts with the City until satisfactory proof of intent to comply is made by the bidder/vendor.
38. **DISTRIBUTION OF CONTRACT:** One (1) copy of the contract or award letter shall be furnished to each successful bidder/vendor as a result of this bid. It shall be the bidder/vendor's responsibility to reproduce and distribute copies of the contract to all distribution points listed in this bid whom will accept orders and complete deliveries. No additions, deletions or changes of any kind shall be made to this contract by the bidder/vendor.
39. **ADVERTISING:** In submitting a proposal, bidder/vendor agrees not to use the results therefrom as a part of any commercial advertising.
40. **TERMINATION FOR CONVENIENCE OF THE CITY:**
- a. The performance of work and/or delivery of ordered materials, supplies, equipment, and/or services under this contract may be terminated by the City, in whole or in part, whenever it is determined to be in the best interest of the City.
 - b. Any such termination shall be effected by the delivery to the bidder/vendor of a notice of termination specifying the extent to which performance of work and/or delivery of ordered materials, supplies, equipment, and/or services are terminated, and the date upon which such termination becomes effective.
 - c. After receipt of a notice of termination, the bidder/vendor shall stop work and/or place no further orders under the contract on the date and to the extent specified in the notice of termination.
41. **VENUE:** This contract shall be governed by the laws of the State of Oklahoma.
42. **OKLAHOMA STATE CONTRACT:** Some items which the City solicits bids for are on the Oklahoma State Contract. The City is eligible to purchase from the State Contract and will

check the prices on the State Contract and may elect to purchase under that contract without termination of this agreement.

43. **INTEGRATED AGREEMENT:** This writing, with the attachments hereto, and any associated purchase orders constitute the entire agreement of the parties. No separate promises or agreements have been made other than those contained herein. This agreement may not be modified except in writing signed by both parties.
44. **ENERGY SAVINGS:** Oklahoma is an energy conservation State and we welcome any comments on your bid that would indicate energy savings. Energy savings will be considered on all bids where specifications call for Life Cycle Cost Analysis.

AFFIDAVIT FOR PAYMENTS IN EXCESS OF \$25,000.00
CITY OF LAWTON, STATE OF OKLAHOMA


STATE OF NEW JERSEY

88 FEIN: 74-3104940

COUNTY OF MORRIS

The undersigned (architect, contractor, supplier or engineer), of lawful age, being first duly sworn, on oath says that this contract is true and correct. Affiant further states that the (work, services or materials) will be (completed or supplied) in accordance with the plans, specifications, orders or requests furnished the affiant. Affiant further states that (s) he has made no payment directly or indirectly to any elected official, officer or employee of the City of Lawton, any county or local subdivision of the state, of money or any other thing of value to obtain or procure the contract or purchase order.

CHEMTRADE CHEMICALS US LLC
Business Name / Contractor Name


Signed
Print . ELIZABETH RYNO, MARKETING SPECIALIST

Attested to before me this 10 day of AUGUST 20 21


Notary Public

My Commission Expires 20



NOTE: Copy of this Affidavit must be attached to any invoice submitted by an architect, contractor, or engineer or supplier for work, services, or materials completed or supplied under the terms of the contract or contracts in excess of \$25,000.00.

Bid Number: CL20-028

Bid Title: Liquid Aluminum Sulfate

Vendor Name: CHEMTRADE CHEMICALS US LLC

(please complete above information)

Price Bid

(must be completed and returned with the bid)

Item	Description	Est Qty	Unit	Unit Price
1	Liquid Aluminum Sulfate	536,637	Gal	* \$1.259

Any questions in regards to the attached specifications should be addressed to David Hastings, Water Treatment Plant Superintendent, at (580) 512-7884 or David.hastings@lawtonok.gov.

* FOR CONVERSION PURPOSE ONLY, PRICE EQUATES TO \$463.00/ DRY TON.

Notes:

1. As per accompanying specifications.
2. This is a requirements contract.
3. There are no insurance requirements for this contract.
4. Please submit two copies of any additional documents such as descriptive literature.

CITY OF LAWTON SPECIFICATION

SPECIFICATION NUMBER: M-127

SPECIFICATION TITLE: Aluminum Sulfate, Liquid

APPROVAL DATE: 10/15/03

DELIVERY: City of Lawton Water Treatment Plant, Medicine Park, Ok 73557

a. Item(s) shall be delivered, FOB, to the address shown above.

WARRANTY: None

DISCLAIMER: The City of Lawton reserves the right to accept or reject any or all bids.

DESCRIPTION:

- a. The following specifications are the **minimum** acceptable standards for the item(s) shown above.
- b. Any deviation from these specifications must be clearly annotated by the Bidder by checking either Y or N and on a separate page list the specification reference and detailing the deviation.
- c. Failure to annotate deviations may cause bid to be deemed as non-responsive.

ALUMINUM SULFATE, LIQUID

Quantity: Delivery must be shipped bulk approximately 4,500 gallons per load.

COMPLY

- | | | | |
|--|--------------------------|------------------|-----|
| 1). Total soluble Al ₂ O ₃ 3% | Minimum 8.0- Maximum 8.3 | Y <u>x</u> N ___ | |
| 2). Total soluble Iron as Fe ₂ O ₃ % | <0.02 | Y <u>x</u> N ___ | |
| 3). Water insolubles, % | 0.02 Max | Y <u>x</u> N ___ | |
| 4). Vendor to supply security information 24 hours prior to delivery. i.e.
(Drivers name, license number, picture, trailer number and hatch seal number.) | | | YES |
| 5). Vendor to supply certified weight certificate at time of delivery. Payment shall be made only for the weight of product delivered. | | | YES |
| 6). Vendor must supply certificate of analysis for each load to include total manganese and iron content. | | | YES |
| 7). Vendor to state delivery time. This information will be used as criteria in bid evaluation. | | | YES |

- | | |
|---|-----|
| 8). Liquid Alum must comply with AWWA Standard B403-98. Vendor must supply a current and complete material safety data sheet (MSDS) before their first delivery. | YES |
| 9). Product acceptability shall be established under the applicable ANSI/NSF Standard (60 or 61) and must be certified as suitable for contact with or treatment of drinking water. | YES |
| 10). The Vendor's agent (truck driver) shall provide samples for the plant operator according to AWWA standard B403-98. Plant operator will provide sample containers. | YES |
| 11). The City shall retain one sample from each shipment. The sample will be held until the next shipment of product is received. The vendor agrees the content of this sample fairly represents the quality of the product delivered in that shipment. | YES |

ABSTRACT OF BIDS

Signature: _____

[illegible]

ABSTRACT OF BIDS

Signature: _____

[illegible]



DELEGATION OF AUTHORITY

I, Scott Rook, President and Chief Executive of Chemtrade Chemicals US LLC, a Delaware limited liability company ("Chemtrade"), do hereby delegate and appoint the following agents of Chemtrade to execute all municipal contracts and instruments, including bids, proposals and quotations, which in the ordinary course of business are processed by the Marketing Group of the company:

Parul Kachhia-Patel	Lisa Brownlee	Paul Peters	Elizabeth Ryno
Leilina Gossa	Christine LaSala	Delana Peralta	Michele Schroeder

Set forth below is a certified copy of the resolution of Chemtrade authorizing such action.

Dated as of the 8th day of April, 2021

Scott Rook
President and Chief Executive Officer

CERTIFICATE OF SECRETARY

I, Susan Pare, hereby certify that I am the Corporate Secretary of Chemtrade Chemicals US LLC ("Chemtrade") and that set forth below is a true and correct copy of the resolution of the Board of Managers of Chemtrade, adopted by unanimous written consent as of the 10th day of November, 2003 and that the same has not been modified or revoked and is on the date hereof in full force and effect:

RESOLVED that any officer of the Company be, and he hereby is, authorized to delegate, with the right of further delegation, to any other officer, employee or agent of the Company, all or any part of the authority granted to them by the Board of Managers; and that any such delegations may be general or specific and subject to such limitations and restrictions as the delegating officer shall determine.

I FURTHER CERTIFY that Scott Rook is the duly elected President and Chief Executive Officer of Chemtrade and holds such offices on the date hereof, that Mr. Rook is, in his capacity as President and Chief Executive Officer is authorized to represent and bind Chemtrade in all matters including, but not limited to, contracts and that set forth below is the genuine signature of such officer:

Scott Rook
President and Chief Executive Officer

IN WITNESS WHEREOF, I have hereunto set my hand and have caused the seal of the Company to be affixed effective this 8th day of April, 2021.

Susan Pare
Corporate Secretary

Seal

90 East Halsey Road
Parsippany, NJ 07054
Tel: 800-441-2659



Water Chemicals Group

90 East Halsey Road, Ste. 200
Parsippany, NJ 07054
Tel: 800-441-2659
Fax: 973-515-4461
www.ChemtradeLogistics.com

August 10, 2021

SUBJECT: Bid Tabulation Request
Bid CL20-028 Liquid Aluminum Sulfate
Opened August 24, 2021 @ 2:00 pm

Thank you for the opportunity to bid on your Water and Waste Water Treatment Chemical requirements.

Chemtrade Chemicals would like to obtain the bid tabulations for the attached bid.

Bid results can be mailed, faxed or emailed. Bid tabs can be faxed to my attention at (973) 515-4461 or emailed to Bids@ChemtradeLogistics.com

Thank you for your assistance in this matter. Chemtrade Chemicals looks forward to future opportunities to bid on your water treatment chemical needs.

Very truly yours,

Beth A. Ryno

Marketing Specialist
Phone: (800) 441-2659
Direct Line: (973) 515-1858
Fax: (973) 515-4461
Direct Email: bryno@chemtradeLogistics.com
Dept. Email: bids@chemtradeLogistics.com



CHEMTRADE

Water Chemicals Group

90 East Halsey Road

Parsippany, NJ 07054

Tel: 800-441-2659

Fax: 973-515-4461

www.ChemtradeLogistics.com

WARRANTY INFORMATION

Chemtrade Chemicals will accept return of material and replace material. Samples will be taken of material and analyzed. Any material that is off-spec as a result of a Chemtrade's production error will be replaced without cost to customer. If product damage is a result of transportation, we will then partner with our carrier to pursue the cause of the problem and develop a resolution in the best interest of the customer.



Water Treatment Group

90 East Halsey Road
Parsippany, NJ 07054
Tel: 1-800-441-2653
Fax: (973) 515-4461
www.chemtradelogistics.com

PRODUCT CERTIFICATION

Chemtrade Chemicals certifies that all grades of Aluminum Sulfate as produced by our manufacturing locations will meet National Sanitation Foundation Standard 60 and ANSI/AWWA B 403-16 standard in every respect.

Safety Data Sheet, NSF Certification and related technical information is attached for review.



Elizabeth Ryno
Marketing Specialist

**CHEMTRADE**<http://www.chemtradelogistics.com>

Liquid Alum PRODUCT DATA SHEET

CHARACTERISTICS

Liquid Alum is a clear, light green, slight yellow, brown, amber or orange-like tinted solution. It is a cationic inorganic coagulant and flocculant suitable for industrial and municipal water and wastewater treatment applications.

NSF/ANSI/CAN Standard 60: Drinking Water Chemicals - Health Effects; Certified

TYPICAL PROPERTIES

Formula:	Aqueous solution of aluminum sulfate		
C.A.S.	10043-01-3 (Aluminum sulfate)		
	pH (neat)	1.4 - 2.6	
	Specific Gravity @ 21°C (70°F)	1.30 - 1.35	
	Freezing Point	-16°C (4°F)	
	Density, lbs./gal., US	10.8 - 11.3	
	Aluminum as Al, %	4.2 - 4.5	
	Aluminum as Al ₂ O ₃ , %	8.0 - 8.4	
	Aluminum as Al ₂ (SO ₄) ₃ •14H ₂ O (Dry Alum), %	46 - 49	

PRODUCT USES

Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking. Fixing rosin sizes on paper fibers. Paper machine drainage and retention aid. Paper machine pitch control.

SHIPPING CONTAINERS

Bulk transport	Bulk car	275 US gal. one-way container	55 US gal. plastic drum
----------------	----------	-------------------------------	-------------------------

SHIPPING REGULATIONS (US DOT / TDG)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Aluminum Sulfate)
Hazard Class: 8 ID Number: UN3264 Packing Group: III
The US EPA reportable quantity (RQ) for aluminum sulfate is 5,000 lbs.

PRODUCT SAFETY INFORMATION

Causes serious eye damage. Do not breathe vapors, mist or spray. Wash hands, forearms, and other exposed areas thoroughly after handling. Wear protective gloves, protective clothing, and eye protection. 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 Chemtrade at 416-496-5856. In the event of an emergency with these products, call the 24-hour **Emergency Number: USA and Canada (CHEMTREC) 800-424-9300**. For additional information contact:

Syracuse Technical Center
315-478-2323 or 800-255-7589

Water Treatment Chemicals
Customer Service 844-204-9675

CHE-5001P-1

Revision Date: April 10, 2020

All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Chemtrade Logistics Inc. and its affiliates (collectively, "Chemtrade") are not engaged in the business of providing technical, operational, engineering or safety information for a fee, and, therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry. Chemtrade shall not be responsible or liable for the use, application or implementation of the information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents.



Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Revision Date: 06/11/2019

Date of Issue: 05/01/2015

Version: 9.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Liquid Alum

Intended Use of the Product

Alum is used as a coagulating agent in municipal and industrial water and wastewater treatment and as an additive in papermaking.

Name, Address, and Telephone of the Responsible Party

Manufacturer

CHEMTRADE LOGISTICS INC.

155 Gordon Baker Road

Suite 300

Toronto, Ontario M2H 3N5

For SDS Info: (416) 496-5856

www.chemtrade logistics.com

Emergency Telephone Number

Emergency Number :

Canada / US: CHEMTREC +1-800-424-9300

INTERNATIONAL: +1-703-741-5970

Chemtrade Emergency Contact: (866) 416-4404

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification

Met. Corr. 1 H290

Eye Dam. 1 H318

Aquatic Acute 3 H402

Full text of hazard classes and H-statements : see section 16

Label Elements

GHS Labeling

Hazard Pictograms

:



GHS05

Signal Word

: Danger

Hazard Statements

: H290 - May be corrosive to metals.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

Precautionary Statements

: P234 - Keep only in original container.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep 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 doctor.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

P321 - Specific treatment (see section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown acute toxicity

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	%*	GHS Ingredient Classification
Water	(CAS No) 7732-18-5	30 - 55	Not classified
Sulfuric acid, aluminum salt (3:2)**	(CAS No) 10043-01-3	45 - 70*	Met. Corr. 1, H290 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

**As $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$ (Dry Aluminum Sulfate).

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

*The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

Eye Contact: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: May cause skin irritation and eye damage.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: May cause irritation.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Can liberate toxic and corrosive fumes of SO₂ and SO₃ under extreme conditions when boiled to dryness or heated above 600 °C (1112 °F).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals. May release corrosive vapors.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, and spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in corrosive resistant container with a resistant inner liner. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Non acid-proof metals (such as aluminum, copper and iron), bases, unalloyed steel, galvanized surfaces.

Specific End Use(s)

Alum is used as a coagulating agent in municipal and industrial water and wastewater treatment and as an additive in papermaking.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemical resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear
Odor	: Odorless
Odor Threshold	: Not available
pH	: 1.4 - 2.6
Evaporation Rate	: Not available
Melting Point	: Not applicable
Freezing Point	: -15.56 °C (3.99 °F)
Boiling Point	: 101 °C (213.8 °F)
Flash Point	: Not flammable
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.30 – 1.35
Solubility	: Water: Completely miscible in water
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures and incompatible materials.

Incompatible Materials: Non acid-proof metals (such as aluminum, copper and iron), bases, unalloyed steel, galvanized surfaces.

Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: May causes skin irritation and eye damage.

pH: 1.4 - 2.6

Eye Damage/Irritation: Causes serious eye damage.

pH: 1.4 - 2.6

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Effects After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Effects After Skin Contact: May cause skin irritation.

Symptoms/Effects After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Effects After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life.

Sulfuric acid, aluminum salt (3:2) (10043-01-3)	
LC50 Fish 1	100 mg/l (Exposure time: 96h – Species: Carassius auratus [static])
EC50 Daphnia 1	12800 ug/l (Exposure time: 48h – Species: Crangonyx pseudogracilis)
LD50 Fish 2	33.9 mg/l (Exposure time: 96h – Species: Pimephales promelas [flow-through])

Persistence and Degradability

Liquid Alum	
Persistence and Degradability	Not established.

Bioaccumulative Potential

Liquid Alum	
Bioaccumulative Potential	Not established.

Mobility in Soil

Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

SECTION 13: DISPOSAL CONSIDERATIONS





Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT 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.

TRANSPORTATION CLASSIFICATION	DOT	TDG	IMDG	IATA
Identification Number	UN3264	UN3264	UN3264	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)
Transport Hazard Class(es)	8	8	8	8
				
Packing Group	III	III	III	III
Environmental Hazards	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant: N/A
Emergency Response	ERG Number : 154	ERAP Index: Not applicable	EMS: F-A, S-B	ERG code (IATA): 8L
Additional Information	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Chemical Name (CAS No.)	CERCLA RQ	EPCRA 304 RQ	SARA 302 TPQ	SARA 313
Sulfuric acid, aluminum salt (3:2) (10043-01-3)	5000 lb	Not present	Not present	No

SARA 311/312

Liquid Alum
Immediate (acute) health hazard

US TSCA Flags

Not present

US State Regulations

California Proposition 65

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Sulfuric acid, aluminum salt (3:2) (10043-01-3)	No	No	No	No

State Right-To-Know Lists

Sulfuric acid, aluminum salt (3:2) (10043-01-3)
U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Canadian Regulations

Sulfuric acid, aluminum salt (3:2) (10043-01-3)

Listed on the Canadian DSL (Domestic Substances List)

Not listed on the Canadian NDSL (Non-Domestic Substances List)

International Inventories/Lists

Chemical Name (CAS No.)	Australia AICS	Turkey CICR	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EU NLP	Mexico INSQ
Sulfuric acid, aluminium salt (3:2) (10043-01-3)	Yes	Yes	Yes	Yes	No	No	No	Yes
Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCS	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
Sulfuric acid, aluminium salt (3:2) (10043-01-3)	Yes	Yes	No	No	No	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 06/11/2019

Revision Summary

Section	Change	Date Changed
1	Text update	06/11/2019
12	Text update	06/11/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

GHS Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H290	May be corrosive to metals
H318	Causes serious eye damage
H402	Harmful to aquatic life

NFPA 704

NFPA Health Hazard : 2

NFPA Fire Hazard : 0

NFPA Reactivity Hazard : 1

HMIS Rating

Health : 2

Flammability : 0

Physical : 1

PPE See Section 8

Abbreviations and Acronyms

AICS - Australian Inventory of Chemical Substances
ACGIH - American Conference of Governmental Industrial Hygienists
AIHA - American Industrial Hygiene Association
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
BEI - Biological Exposure Indices (BEI)
CAS No. - Chemical Abstracts Service number
CERCLA RQ - Comprehensive Environmental Response, Compensation, and

LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-observed-effect Concentration
Log Pow - Octanol/water Partition Coefficient
NFPA 704 - National Fire Protection Association - Standard System for the Identification of the Hazards of Materials for Emergency Response
NIOSH - National Institute for Occupational Safety and Health

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Liability Act - Reportable Quantity	NLP - Europe No Longer Polymers List
CICR - Turkish Inventory and Control of Chemicals	NOAEL - No-Observed Adverse Effect Level
DOT - 49 CFR - US Department of Transportation - Code of Federal Regulations Title 49 - Transportation.	NOEC - No-Observed Effect Concentration
EC50 - Median effective concentration	NZIOC - New Zealand Inventory of Chemicals
ECL - Korea Existing Chemicals List	OEL - Occupational Exposure Limits
EINECS - European Inventory of Existing Commercial Chemical Substances	OSHA - Occupational Safety and Health Administration
ELINCS - European List of Notified Chemical Substances	PEL - Permissible Exposure Limits
EmS - IMDG Emergency Schedule Fire & Spillage	PICCS - Philippine Inventory of Chemicals and Chemical Substances
ENCS - Japanese Existing and New Chemical Substances Inventory	PDSCCL - Japan Poisonous and Deleterious Substances Control Law
EPA - Environmental Protection Agency	PPE - Personal Protective Equipment
EPCRA 304 RQ - EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act - Reportable Quantity	PRTR - Japan Pollutant Release and Transfer Register
ERAP Index - Emergency Response Assistance Plan Quantity Limit	REL - Recommended Exposure Limit
ErC50 - EC50 in Terms of Reduction Growth Rate	SADT - Self Accelerating Decomposition Temperature
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)	SARA - Superfund Amendments and Reauthorization Act
ERG No. - Emergency Response Guide Number	SARA 302 - Section 302, 40 CFR Part 355
HCCL - Hazard Communication Carcinogen List	SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories
HMIS - Hazardous Materials Information System	SARA 313 - Section 313, 40 CFR Part 372
IARC - International Agency for Research on Cancer	SRCL - Specifically Regulated Carcinogen List
IATA - International Air Transport Association - Dangerous Goods Regulations	STEL - Short Term Exposure Limit
IDLH - Immediately Dangerous to Life or Health	SVHC - European Candidate List of Substance of Very High Concern
IECSC - Inventory of Existing Chemical Substances Produced or Imported in China	TDG - Transport Canada Transport of Dangerous Goods Regulations
IMDG - International Maritime Dangerous Goods Code	TLM - Median Tolerance Limit
INSQ - Mexican National Inventory of Chemical Substances	TLV - Threshold Limit Value
ISHL - Japan Industrial Safety and Health Law	TPQ - Threshold Planning Quantity
	TSCA - United States Toxic Substances Control Act
	TWA - Time Weighted Average
	WEEL - Workplace Environmental Exposure Levels

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.



Chemtrade NA GHS SDS 2015



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, August 10, 2021** at 12:15 a.m. Eastern Time. Please contact NSF 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=chemtrade&TradeName=alum&PlantState=Texas+TX&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=chemtrade&TradeName=alum&PlantState=Texas+TX&)

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

Chemtrade Solutions LLC (formerly General Chemical LLC)

1421 Willis Avenue

Syracuse, NY 13204

United States

315-478-2323

Visit this company's website

(<http://www.chemtradelogistics.com/main/>)

Facility : Odem, TX

Aluminum Sulfate[AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Alum	Coagulation & Flocculation	400mg/L
Aluminum Sulfate	Coagulation & Flocculation	400mg/L
Liquid Alum	Coagulation & Flocculation	400mg/L
Liquid Alum Acidized 0.5-10.0%	Coagulation & Flocculation	400mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do

not exceed 1.3 mg/L.

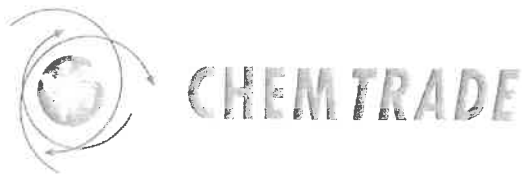
[PO] The finished drinking water shall be monitored to ensure that levels of manganese

do not exceed 0.05 mg/L.

Number of matching Manufacturers is 1

Number of matching Products is 4

Processing time was 0 seconds



Water Treatment Group

90 East Halsey Road
Parsippany, NJ 07054
Tel: 1-800-441-2653
Fax: (973) 515-4461
www.chemtradelogistics.com

PRODUCT CERTIFICATION

Chemtrade Chemicals certifies that all grades of Aluminum Sulfate as produced by our manufacturing locations will meet National Sanitation Foundation Standard 60 and ANSI/AWWA B 403-16 standard in every respect.

Safety Data Sheet, NSF Certification and related technical information is attached for review.



Elizabeth Ryno
Marketing Specialist

**CHEMTRADE**<http://www.chemtradelogistics.com>

Liquid Alum PRODUCT DATA SHEET

CHARACTERISTICS

Liquid Alum is a clear, light green, slight yellow, brown, amber or orange-like tinted solution. It is a cationic inorganic coagulant and flocculant suitable for industrial and municipal water and wastewater treatment applications.

NSF/ANSI/CAN Standard 60: Drinking Water Chemicals - Health Effects; Certified

TYPICAL PROPERTIES

Formula:	Aqueous solution of aluminum sulfate		
C.A.S.	10043-01-3 (Aluminum sulfate)		
	pH (neat)	1.4 - 2.6	
	Specific Gravity @ 21°C (70°F)	1.30 - 1.35	
	Freezing Point	-16°C (4°F)	
	Density, lbs./gal., US	10.8 - 11.3	
	Aluminum as Al, %	4.2 - 4.5	
	Aluminum as Al ₂ O ₃ , %	8.0 - 8.4	
	Aluminum as Al ₂ (SO ₄) ₃ •14H ₂ O (Dry Alum), %	46 - 49	

PRODUCT USES

Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking. Fixing rosin sizes on paper fibers. Paper machine drainage and retention aid. Paper machine pitch control.

SHIPPING CONTAINERS

Bulk transport	Bulk car	275 US gal. one-way container	55 US gal. plastic drum
----------------	----------	-------------------------------	-------------------------

SHIPPING REGULATIONS (US DOT / TDG)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Aluminum Sulfate)

Hazard Class: 8 ID Number: UN3264 Packing Group: III

The US EPA reportable quantity (RQ) for aluminum sulfate is 5,000 lbs.

PRODUCT SAFETY INFORMATION

Causes serious eye damage. Do not breathe vapors, mist or spray. Wash hands, forearms, and other exposed areas thoroughly after handling. Wear protective gloves, protective clothing, and eye protection. 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 Chemtrade at 416-496-5856. In the event of an emergency with these products, call the 24-hour **Emergency Number: USA and Canada (CHEMTREC) 800-424-9300**. For additional information contact:

Syracuse Technical Center
315-478-2323 or 800-255-7589

Water Treatment Chemicals
Customer Service 844-204-9675

CHE-5001P-1

Revision Date: April 10, 2020

All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Chemtrade Logistics Inc. and its affiliates (collectively, "Chemtrade") are not engaged in the business of providing technical, operational, engineering or safety information for a fee, and, therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill and experience in the chemical industry. Chemtrade shall not be responsible or liable for the use, application or implementation of the information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents.



Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Revision Date: 06/11/2019

Date of Issue: 05/01/2015

Version: 9.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Liquid Alum

Intended Use of the Product

Alum is used as a coagulating agent in municipal and industrial water and wastewater treatment and as an additive in papermaking.

Name, Address, and Telephone of the Responsible Party

Manufacturer

CHEMTRADE LOGISTICS INC.

155 Gordon Baker Road

Suite 300

Toronto, Ontario M2H 3N5

For SDS Info: (416) 496-5856

www.chemtradelogistics.com

Emergency Telephone Number

Emergency Number :

Canada / US: CHEMTREC +1-800-424-9300

INTERNATIONAL: +1-703-741-5970

Chemtrade Emergency Contact: (866) 416-4404

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification

Met. Corr. 1 H290

Eye Dam. 1 H318

Aquatic Acute 3 H402

Full text of hazard classes and H-statements : see section 16

Label Elements

GHS Labeling

Hazard Pictograms



GHS05

Signal Word

: Danger

Hazard Statements

: H290 - May be corrosive to metals.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

Precautionary Statements

: P234 - Keep only in original container.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep 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 doctor.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

P321 - Specific treatment (see section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown acute toxicity

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	%*	GHS Ingredient Classification
Water	(CAS No) 7732-18-5	30 - 55	Not classified
Sulfuric acid, aluminum salt (3:2)**	(CAS No) 10043-01-3	45 - 70*	Met. Corr. 1, H290 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

**As $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$ (Dry Aluminum Sulfate).

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

*The actual concentration of the ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

Eye Contact: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: May cause skin irritation and eye damage.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: May cause irritation.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Can liberate toxic and corrosive fumes of SO₂ and SO₃ under extreme conditions when boiled to dryness or heated above 600 ° C (1112 ° F).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals. May release corrosive vapors.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, and spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in corrosive resistant container with a resistant inner liner. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Non acid-proof metals (such as aluminum, copper and iron), bases, unalloyed steel, galvanized surfaces.

Specific End Use(s)

Alum is used as a coagulating agent in municipal and industrial water and wastewater treatment and as an additive in papermaking.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemical resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear
Odor	: Odorless
Odor Threshold	: Not available
pH	: 1.4 - 2.6
Evaporation Rate	: Not available
Melting Point	: Not applicable
Freezing Point	: -15.56 °C (3.99 °F)
Boiling Point	: 101 °C (213.8 °F)
Flash Point	: Not flammable
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.30 – 1.35
Solubility	: Water: Completely miscible in water
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures and incompatible materials.

Incompatible Materials: Non acid-proof metals (such as aluminum, copper and iron), bases, unalloyed steel, galvanized surfaces.

Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: May causes skin irritation and eye damage.

pH: 1.4 - 2.6

Eye Damage/Irritation: Causes serious eye damage.

pH: 1.4 - 2.6

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Effects After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Effects After Skin Contact: May cause skin irritation.

Symptoms/Effects After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Effects After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life.

Sulfuric acid, aluminum salt (3:2) (10043-01-3)	
LC50 Fish 1	100 mg/l (Exposure time: 96h – Species: Carassius auratus [static])
EC50 Daphnia 1	12800 ug/l (Exposure time: 48h – Species: Crangonyx pseudogracilis)
LD50 Fish 2	33.9 mg/l (Exposure time: 96h – Species: Pimephales promelas [flow-through])

Persistence and Degradability

Liquid Alum	
Persistence and Degradability	Not established.

Bioaccumulative Potential

Liquid Alum	
Bioaccumulative Potential	Not established.

Mobility in Soil

Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

SECTION 13: DISPOSAL CONSIDERATIONS





Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT 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.

TRANSPORTATION CLASSIFICATION	DOT	TDG	IMDG	IATA
Identification Number	UN3264	UN3264	UN3264	UN3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (CONTAINS ALUMINUM SULFATE)
Transport Hazard Class(es)	8	8	8	8
				
Packing Group	III	III	III	III
Environmental Hazards	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant : No	Marine Pollutant: N/A
Emergency Response	ERG Number : 154	ERAP Index: Not applicable	EMS: F-A, S-B	ERG code (IATA): 8L
Additional Information	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Chemical Name (CAS No.)	CERCLA RQ	EPCRA 304 RQ	SARA 302 TPQ	SARA 313
Sulfuric acid, aluminum salt (3:2) (10043-01-3)	5000 lb	Not present	Not present	No

SARA 311/312

Liquid Alum
Immediate (acute) health hazard

US TSCA Flags

Not present

US State Regulations

California Proposition 65

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Sulfuric acid, aluminum salt (3:2) (10043-01-3)	No	No	No	No

State Right-To-Know Lists

Sulfuric acid, aluminum salt (3:2) (10043-01-3)
U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Canadian Regulations

Sulfuric acid, aluminum salt (3:2) (10043-01-3)

Listed on the Canadian DSL (Domestic Substances List)

Not listed on the Canadian NDSL (Non-Domestic Substances List)

International Inventories/Lists

Chemical Name (CAS No.)	Australia AICS	Turkey CICR	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EU NLP	Mexico INSQ
Sulfuric acid, aluminium salt (3:2) (10043-01-3)	Yes	Yes	Yes	Yes	No	No	No	Yes
Chemical Name (CAS No.)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR	Philippines PICCS	New Zealand NZIOC	US TSCA
Sulfuric acid, aluminium salt (3:2) (10043-01-3)	Yes	Yes	No	No	No	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 06/11/2019

Revision Summary

Section	Change	Date Changed
1	Text update	06/11/2019
12	Text update	06/11/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

GHS Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H290	May be corrosive to metals
H318	Causes serious eye damage
H402	Harmful to aquatic life

NFPA 704

NFPA Health Hazard : 2

NFPA Fire Hazard : 0

NFPA Reactivity Hazard : 1

HMIS Rating

Health : 2

Flammability : 0

Physical : 1

PPE See Section 8

Abbreviations and Acronyms

AICS - Australian Inventory of Chemical Substances
ACGIH - American Conference of Governmental Industrial Hygienists
AIHA - American Industrial Hygiene Association
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
BEI - Biological Exposure Indices (BEI)
CAS No. - Chemical Abstracts Service number
CERCLA RQ - Comprehensive Environmental Response, Compensation, and

LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-observed-effect Concentration
Log Pow - Octanol/water Partition Coefficient
NFPA 704 - National Fire Protection Association - Standard System for the Identification of the Hazards of Materials for Emergency Response
NIOSH - National Institute for Occupational Safety and Health

Liquid Alum

Safety Data Sheet

According to U.S. Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations and according to Canada's Hazardous Products Regulation, February 11, 2015.

Liability Act - Reportable Quantity	NLP - Europe No Longer Polymers List
CICR - Turkish Inventory and Control of Chemicals	NOAEL - No-Observed Adverse Effect Level
DOT - 49 CFR - US Department of Transportation - Code of Federal Regulations Title 49 - Transportation.	NOEC - No-Observed Effect Concentration
EC50 - Median effective concentration	NZIOC - New Zealand Inventory of Chemicals
ECL - Korea Existing Chemicals List	OEL - Occupational Exposure Limits
EINECS - European Inventory of Existing Commercial Chemical Substances	OSHA - Occupational Safety and Health Administration
ELINCS - European List of Notified Chemical Substances	PEL - Permissible Exposure Limits
EmS - IMDG Emergency Schedule Fire & Spillage	PICCS - Philippine Inventory of Chemicals and Chemical Substances
ENCS - Japanese Existing and New Chemical Substances Inventory	PDSCL - Japan Poisonous and Deleterious Substances Control Law
EPA - Environmental Protection Agency	PPE - Personal Protective Equipment
EPCRA 304 RQ - EPCRA 304 Extremely Hazardous Substance Emergency	PRTR - Japan Pollutant Release and Transfer Register
Planning and Community Right-to-Know-Act - Reportable Quantity	REL - Recommended Exposure Limit
ERAP Index - Emergency Response Assistance Plan Quantity Limit	SADT - Self Accelerating Decomposition Temperature
ErC50 - EC50 in Terms of Reduction Growth Rate	SARA - Superfund Amendments and Reauthorization Act
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)	SARA 302 - Section 302, 40 CFR Part 355
ERG No. - Emergency Response Guide Number	SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories
HCCL - Hazard Communication Carcinogen List	SARA 313 - Section 313, 40 CFR Part 372
HMIS - Hazardous Materials Information System	SRCL - Specifically Regulated Carcinogen List
IARC - International Agency for Research on Cancer	STEL - Short Term Exposure Limit
IATA - International Air Transport Association - Dangerous Goods Regulations	SVHC - European Candidate List of Substance of Very High Concern
IDLH - Immediately Dangerous to Life or Health	TDG - Transport Canada Transport of Dangerous Goods Regulations
IECSC - Inventory of Existing Chemical Substances Produced or Imported in China	TLM - Median Tolerance Limit
IMDG - International Maritime Dangerous Goods Code	TLV - Threshold Limit Value
INSQ - Mexican National Inventory of Chemical Substances	TPQ - Threshold Planning Quantity
ISHL - Japan Industrial Safety and Health Law	TSCA - United States Toxic Substances Control Act
	TWA - Time Weighted Average
	WEEL - Workplace Environmental Exposure Levels

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.



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The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, August 10, 2021** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

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<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?>

[CompanyName=chemtrade&TradeName=alum&PlantState=Texas+TX&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=chemtrade&TradeName=alum&PlantState=Texas+TX&)

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

Chemtrade Solutions LLC (formerly General Chemical LLC)

1421 Willis Avenue

Syracuse, NY 13204

United States

315-478-2323

Visit this company's website

[\(http://www.chemtradelogistics.com/main/\)](http://www.chemtradelogistics.com/main/)

Facility : Odem, TX

Aluminum Sulfate[AL]

Trade Designation

Alum

Aluminum Sulfate

Liquid Alum

Liquid Alum Acidized 0.5-10.0%

Product Function

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Max Use

400mg/L

400mg/L

400mg/L

400mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

[CP] The finished drinking water shall be monitored to ensure that levels of copper do

not exceed 1.3 mg/L.

[PO] The finished drinking water shall be monitored to ensure that levels of manganese
do not exceed 0.05 mg/L.

Number of matching Manufacturers is 1

Number of matching Products is 4

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