

DATE: 8/26/2015

INVITATION TO BID
THIS IS NOT AN ORDER

BID NO.: 50-00114227

JEFFERSON PARISH

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PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

BUYER: MCamardelle@jeffparish.net

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 9/10/2015 AND PUBLICLY OPENED THEREAFTER.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids must register as a Jefferson Parish vendor if not already yet registered. Bidders may be required to furnish current W-9 Forms and respective Tax Identification Numbers within 10 days after bid opening if such information is not on file or not up to date. Registration forms may be downloaded from www.purchasing.jeffparish.net and clicking on Vendor Information.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

If the bid exceeds \$30,000.00 and the company is duly authorized to do business in the state of Louisiana, a corporate resolution must be submitted with the bid or the person signing the bid documents must be listed on the Louisiana Secretary of State's website as an officer of the corporation, unless bidder has otherwise complied with LSA-R.S. 38:2212(B)(5). If the bid is in excess of \$30,000 and bidder is registered out of the state of Louisiana, a corporate resolution must be submitted with the bid, unless bidder has otherwise complied with LSA-R.S. 38:2212(B)(5). Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. Bids submitted by Owner or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. Sole proprietors submitting bids for public works projects shall within 10 days after bid opening submit sole proprietorship certification.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. IN THE EVENT OF SPLIT AWARD, THE PURCHASING DEPARTMENT MAY CONTACT VENDORS TO REQUEST REQUIRED AFFIDAVITS. THOSE VENDORS WILL HAVE 10 DAYS FROM THE DATE OF NOTICE TO SUBMIT COMPLETE, SIGNED AND NOTARIZED AFFIDAVITS IN ORIGINAL FORMATS.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-R.S.38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This Electronic Procurement System allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Please note requirements contained in this bid package for electronic bid submission.

Please visit the Purchasing Department webpage at <http://purchasing.jeffparish.net> to register and review Jefferson Parish solicitations.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

5, 10, 12, 13, 15

1. All bidders must attend the pre-bid conference in relation to this bid; attendance is mandatory. Failure to attend will prohibit a company from submitting a bid. Vendors arriving after the mandatory pre-bid conference begins will not be allowed to sign in as evidence of attendance.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.
7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached sheet. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected. JEFFERSON PARISH reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required; Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit and E-Verify Affidavit must be completed, signed, notarized and submitted by low bidder within 10 days after bid opening to the Purchasing Department on all solicitations for construction, alteration or demolition of public building or project, including but not limited to requirements found in LSA-RS 38:2212.9; LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1. Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required; Non-Collusion Affidavit, and Campaign Contribution Affidavit must be completed, signed, notarized and submitted by low bidder with bid submission within 10 days after bid opening to the Purchasing Department. See LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1 Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled NON-PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
16. Since a bid surety is required, bid response may not be faxed. Bid submission will only be accepted online or as delivered to the Purchasing Department, 200 Derbigny Street, Suite 4400, Gretna, LA 70053 by 11am on the bid due date. All sureties must be in original format (no copies).

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES X NO MAXIMUM ESCALATION PERCENTAGE REQUESTED 5 %INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 1 year from award

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

 7-10 Days ARO

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

 n/a **THIS SECTION MUST BE COMPLETED BY BIDDER:**FIRM NAME: Shannon Chemical Corporation ADDRESS: P.O. Box 376 CITY, STATE: Malvern, PA ZIP: 19355 TELEPHONE: (610) 363-9090 FAX: (610) 524-6050 EMAIL ADDRESS: dcflynn@shannonchem.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: NUMBER: NUMBER: NUMBER: TOTAL PRICE OF ALL BID ITEMS: \$ 227,392.80

AUTHORIZED

SIGNATURE: [Signature] Daniel C. Flynn

Printed Name

TITLE: Vice President-Operations

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00114227

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	220.00	TN	TWO (2) YEAR CONTRACT FOR VARIOUS CHEMICALS FOR THE JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS - WATER 0010 BULK LIQUID AMMONIA (DELIVERED FREIGHT PREPAID IN APPROXIMATELY 2 OR 3 TON SHIPMENTS TO BOTH THE EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATIONS: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072		No Bid
2	120.00	TN	0020 ZINC SODIUM HEXAMETAPHOSPHATE (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072	\$1894.94 per ton	\$227,392.80
3	1,300.00	TN	0030 BULK POLYDADMAC POLYELECTROLYTE CLARIFLOC C-308P (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072		No Bid
4	90.00	DRUM	0040 AMMONIUM HYDROXIDE SOLUTION, 29.4% IN 55 GALLON DRUMS (DELIVERED FREIGHT PREPAID IN 10 DRUM SHIPMENTS AS REQUIRED). DELIVERY TO: GRAND ISLE, LA 70358		No Bid
5	400.00	TN	0050 BULK POWDERED ACTIVATED CARBON FOR BROAD SPECTRUM ORGANICS REMOVAL (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121		No Bid

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00114227

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
6	1,300.00	TN	WESTBANK PLANT - MARRERO, LA 70072		No Bid
			0060 LIQUID CHLORINE IN 1 TON CYLINDERS (CYLINDERS DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072		
7	30,000.00	LB	0070 LIQUID CHLORINE IN 150 POUND CYLINDERS		No Bid
			(CYLINDERS DELIVERED IN 1500 LB SHIPMENTS FREIGHT PREPAID AS REQUIRED) DELIVERY TO: GRAND ISLE, LA 70358		
8	140.00	TN	0080 BULK FLUOROSILICIC ACID BID ON A 100% DRY BASIS (DELIVERED FREIGHT		No Bid
			PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70075		
9	3,100.00	TN	0090 BULK LIQUID ALUMINUM SULFATE BID ON A 100% DRY BASIS (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072		No Bid

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF
Shannon Chemical Corporation

INCORPORATED.

AT THE MEETING OF DIRECTORS OF Shannon Chemical Corporation
INCORPORATED, DULY NOTICED AND HELD ON August 20, 2015,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT Daniel C. Flynn, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.



Karl Spivak

SECRETARY-TREASURER

09/01/15

DATE

Non-Public Works Bid Affidavit Instructions

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

Instruction sheet may be omitted when submitting the affidavit

Non-Public Works Bid**AFFIDAVIT****STATE OF** Pennsylvania**PARISH/COUNTY OF** Chester

BEFORE ME, the undersigned authority, personally came and appeared: Daniel C. Flynn, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized V.P.-Operations of Shannon Chemical (Entity), the party who submitted a bid in response to Bid Number 5000114227, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

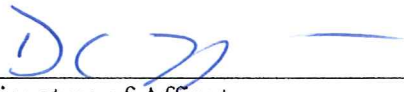
Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

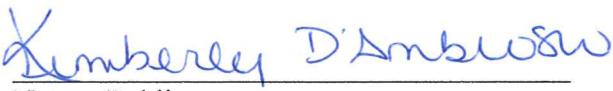
[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.


Signature of Affiant

Daniel C. Flynn
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 1st DAY OF September 2015.


Notary Public

Kimberly D'Ambrosio
Printed Name of Notary

Notary/Bar Roll Number



My commission expires _____.

INSURANCE REQUIREMENTS - BIDS

All insurance requirements shall conform to Jefferson Parish Resolution No. 113646 or No. 113647. The contractor shall not commence work under this contract until he has obtained all insurance and complied with the requirements of the specifications and said Parish Resolutions. Except as otherwise provided by law, the Parish Attorney's Office with the concurrence of the Director of Risk Management is authorized to omit in whole or part the insurance requirements of this section in connection with contracts. Vendors inquiring about this shall submit his written request to the Purchasing Department prior to the due date of the bid. Contractor must deliver and maintain such insurances as provided; failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

Successful bidder will be required to procure standard insurance policies evidencing Parish mandated insurance requirements indicated below. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected.

1. WORKER'S COMPENSATION INSURANCE

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

2. COMMERCIAL GENERAL LIABILITY

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

3. COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.
Property Damage Liability \$1,000,000.00 each occurrence.

DEDUCTIBLES

No insurance required shall include a deductible not greater than \$10,000.00. The cost of the deductible shall be borne by the contractor.

NOTE: If the vendor requires a change in deductibles, the request must be submitted in writing to the Purchasing Department prior to the due date of the bid. Such request shall be reviewed by the Parish Attorney's Office.

UMBRELLA LIABILITY COVERAGE

An umbrella policy or excess may be used to meet minimum requirements.

CONSTRUCTION AND RENOVATION PROJECTS:

Unless otherwise specified in the bid, these additional insurance is required. Such insurance is due upon contract execution.

OWNER'S PROTECTIVE LIABILITY

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

BUILDER'S RISK INSURANCE

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.

NOTE for CERTIFICATE HOLDER:

All insurance certificates shall list the certificate holder as follows:

"The Parish of Jefferson, its Districts, Departments and Agencies under the direction of the Parish President and the Parish Council." Additionally, the address on the Certificates should reflect the department which is letting the bid and reference the respective bid number.

Revised 2.10.2014



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/1/2015

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 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 Wharton Financial Group, Inc. 1055 Westlake Drive Suite 135 Berwyn PA 19312		CONTACT NAME: Colleen Gramiak PHONE (A/C, No, Ext): (484) 568-4425 FAX (A/C, No): E-MAIL ADDRESS: colleen@creativeriskmanagement.net																						
INSURED Shannon Chemical Corporation PO Box 376 Malvern PA 19355		<table border="1"><thead><tr><th colspan="2">INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr></thead><tbody><tr><td>INSURER A:</td><td>Chartis Specialty Insurance Co</td><td>26883</td></tr><tr><td>INSURER B:</td><td>Commerce and Industry Ins. Co.</td><td>19410</td></tr><tr><td>INSURER C:</td><td>Granite State Insurance Co.</td><td>23809</td></tr><tr><td>INSURER D:</td><td></td><td></td></tr><tr><td>INSURER E:</td><td></td><td></td></tr><tr><td>INSURER F:</td><td></td><td></td></tr></tbody></table>		INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	Chartis Specialty Insurance Co	26883	INSURER B:	Commerce and Industry Ins. Co.	19410	INSURER C:	Granite State Insurance Co.	23809	INSURER D:			INSURER E:			INSURER F:		
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INSURER F:																								

COVERAGES

CERTIFICATE NUMBER: CL1353100011

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.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY						EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	X		EG28328983	6/1/2015	6/1/2016	MED EXP (Any one person) \$ 25,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY \$ 1,000,000
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						GENERAL AGGREGATE \$ 2,000,000
B	AUTOMOBILE LIABILITY						PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input checked="" type="checkbox"/> ANY AUTO						
	<input type="checkbox"/> ALL OWNED AUTOS			CA1904346	6/1/2015	6/1/2016	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input type="checkbox"/> HIRED AUTOS						BODILY INJURY (Per person) \$
A	UMBRELLA LIAB						BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> EXCESS LIAB			EGU28333478	6/1/2015	6/1/2016	PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$	X					
							AGGREGATE \$ 9,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N	N/A	66455177	6/1/2015	6/1/2016	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. EACH ACCIDENT \$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
A	Pollution Legal Liability			EG28328983	6/1/2015	6/1/2016	E.L. DISEASE - POLICY LIMIT \$ 1,000,000
\$ 1,000,000 each occurrence \$ 1,000,000 Aggregate							

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Certificate holder is included as an Additional Insured as respects to general liability arising out of the insured's operations as required by written contract.

CERTIFICATE HOLDER**CANCELLATION**

Jefferson Paris Water Department
1221 Elmwood Park Blvd.
Suite 909
Jefferson, LA 70123

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

Douglas Schroer/DOUG



Shannon Chemical Corporation

Specializing in **LEAD** and **COPPER** Corrosion Control

LETTER OF CERTIFICATION

SHAN-NO-CORR

Corrosion Inhibitor & Sequestering Agent


Water Treatment Compound

SHANNON CHEMICAL CORPORATION certifies that SHAN-NO-CORR is a 1:10 ratio bimetallic zinc phosphate which is certified to ANSI/NSF Standard 60.

SHAN-NO-CORR has the following physical and chemical characteristics:

Color	White, Granular Powder
Odor	None
Chlorine Demand	None
Solubility	2.5#/gallon
pH 1% Solution	Less than 2.5
Zinc as Zn	6.7%
Phosphate as PO ₄	67%
Zinc: PO ₄ Ratio	1:10

The raw materials used in the formulation of **SHAN-NO-CORR** meet or exceed the specifications for additives to potable drinking water as stated in the Water Chemicals Codex and the Water Chemicals Codex: Supplementary Recommendations For Direct Additives.


Daniel C. Flynn
Vice President-Operations
SHANNON CHEMICAL CORPORATION



Shannon Chemical Corp.
P.O. Box 376 Malvern, PA 19355 • Phone: (610) 363-9090 • Fax: (610) 524-6050

Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Product Identifier

Product Name	• SHAN-NO-CORR (S-N-C)
Synonyms	• Zinc Phosphate
CAS Number	• Proprietary Blend
SDS Number/Grade	• 0046

1.2 Use of Substance/Mixture

Recommended use	• Water treatment; sequestration; corrosion inhibitor
-----------------	---

1.3 Company Identification

Name	• Shannon Chemical Corporation
Address	• P.O. Box 376 Malvern, PA 19355

1.4 Contact Information

Information #	• (610) 363-9090
Chem Tel #	• (800) 255-3924
Emergency #	• (484) 354-9773

SECTION 2: HAZARDS IDENTIFICATION

2.1 Hazards

Classification of the substance or mixture

Hazard Statements:

- H302 – Harmful if swallowed
- H318 – Causes serious eye damage
- H410 – Very toxic to aquatic life with long lasting effects

Precautionary Statements:

- P264 – Wash hands and forearms thoroughly after handling
- P280 – Wear eye protection, face protection, protective gloves, protective clothing
- P305+P351+P338 – If in eyes: Rinse cautiously with copious amounts of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 – Immediately call a POISON CENTER or doctor

Hazard Symbols



Signal Word

DANGER!

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	Identifiers	Composition	
		%	LD50/LC50
Polyphosphoric acid, sodium salt	CAS: 10124-56-8	> 50	Oral-Rat LD50 • 3053 mg/kg
Sodium Hydrogen Sulfate	CAS: 7681-38-1	<50	Oral-Rat LD50 • 2800 mg/kg
Zinc Sulfate	CAS: 7733-02-01	<50	No Data Available

SECTION 4: FIRST AID MEASURES

4.1 Eye Exposure

- Immediately flush eyes with copious amounts of water, occasionally lifting both upper and lower eyelids. If irritation persists contact a physician.

4.2 Skin Exposure

- Rinse with water for 5 minutes. Remove and wash any clothing exposed to the solution before reuse. If irritation and swelling persist, seek medical attention.

4.3 Inhalation

- Remove from further exposure. Expose individual to fresh air. If not breathing, give proper artificial respiration. If breathing is difficult, trained personnel should administer oxygen. Seek immediate medical attention.

4.4 Ingestion

- If victim is conscious and alert give 2-3 glasses of water or milk. **Do Not** induce vomiting. Do not give anything to drink to an unconscious person. Do not leave victim unattended. To prevent aspiration, lay victim on side with head lower than waist. Vomiting may occur simultaneously. Seek immediate medical attention.

4.5 Most Important Symptoms/Effects; Acute and Delayed

Potential Acute Health Effects

Eye Contact
Inhalation
Skin Contact
Ingestion

- Causes serious eye damage
- Inhalation of dust may irritate nose, throat and/or lungs
- Prolonged exposure may cause skin irritation
- Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

Over-exposure Signs/Symptoms

Eye Contact

Inhalation

Skin Contact

Ingestion

- Adverse symptoms may include the following: pain, watering, redness
- No known significant effects or critical hazards.
- Adverse symptoms may include the following: pain or irritation, redness, blistering (if repeated exposure)
- Adverse symptoms may include the following: stomach pains

4.6 Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

Notes to Physician

Specific Treatments

Protection of First-aiders

- Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- No specific treatment
- No action shall be taken involving any personal risk without suitable training

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing Media**

Suitable Extinguishing Media

Unsuitable Extinguishing Media

- Not combustible. Use extinguishing media suitable for surrounding fire.
- None known

5.2 Special Hazards

Unusual Fire and Explosion Hazards

Special Fire Fighting Procedures

Special Protective Equipment for Fire Fighters

- No specific fire or explosion hazards.
- No special measures required.
- Wear appropriate protection equipment and self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment & Emergency Procedures**

Personal Precaution

Emergency Procedures

- Do not touch or walk through spilled material.
- Keep unauthorized personnel away.

6.2 Methods and Material for Containment and Cleaning Up

Containment/Clean-up

- Sweep or vacuum up and place in appropriate closed container. Avoid dispersal of dust in the air. **LARGE SPILLS:** Cover powder with plastic sheet or tarp to minimize spreading.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling

- Avoid contact with skin, eyes, clothing and mucous membranes. Wear protective clothing. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Use in a well-ventilated area.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage

- Store in a cool, dry location away from direct sunlight and source of heat. Store away from incompatible materials. (See Section 10)

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits/Guidelines

- No exposure limits were found for this product or any of its ingredients.

Engineering Measures/Controls

- Dilution ventilation. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

8.2 Personal Protections

Respiratory Protection

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Skin Protection

- Where direct contact is likely, wear neoprene chemical resistant gloves and a protective apron or chemical suit if necessary.

Eye Protection

- Wear eye protection.

Body Protection

- A rubber apron or other impermeable body protection is suggested. Full body chemical protective clothing is recommended for emergency response procedures.

Ventilation Protection

- Not required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

Appearance	• White Powder/Granular
Odor	• None

9.2 Important Health Safety and Environmental Information

pH 1% Solution:	• Less than 2.5
Melting/Freezing Point:	• 177°C
Boiling Point/ Range:	• No Data
Flash Point:	• No Data
Evaporation Rate:	• No Data
Flammability (solid, gas):	• No Data
Flammability	• No Data
Explosive Limits:	• No Data
Vapor Pressure:	• No Data
Vapor Density:	• No Data
Relative Density:	• No Data
Solubility (ies):	• 1.5 – 2.5#/gallon
Partition Coefficient:	• No Data
Auto-ignition Temperature:	• No Data
Decomposition Temperature:	• No Data
Viscosity:	• No Data
Product Density:	• 68 – 75#/ft ³

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical Stability

- Stable under normal ambient conditions of temperature and pressure.

10.2 Conditions to Avoid

- Dusting conditions, extreme humidity

10.3 Incompatible Materials

- Strong oxidizing agents

10.4 Hazardous Decomposition Products

- Toxic fumes of PO_x may be emitted if decomposition temperature is reached. Oxides of sodium; oxides of phosphate.

10.5 Hazardous Polymerization

- Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity Estimates

	CAS #	Route	Species	LD50	Target Organs
Polyphosphoric Acid, sodium salt	68915-31-1	Ingestion/Oral	Rat	3053 mg/kg	No Data
Sodium Hydrogen Sulfate	7681-38-1	Ingestion/Oral	Rat	2800 mg/kg	No Data
Zinc Sulfate	7446-19-7	Ingestion/Oral	Rat	No Data	No Data

GHS Properties	Classification
Acute Toxicity	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Skin Corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin Sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Respiratory Sensitization	OSHA HCS 2012 • Classification criteria not met
Serious Eye Damage/Irritation	OSHA HCS 2012 • Classification criteria not met

11.2 Potential Health Effects

Inhalation

- Acute (Immediate)
- Chronic (Delayed)
- Exposure to dust may cause irritation.
- No data available.

Skin

- Acute (Immediate)
- Chronic (Delayed)
- May cause mild irritation. Exposure to dust may cause mechanical irritation.
- No data available.

Eye

- Acute (Immediate)
- Chronic (Delayed)
- May cause mild irritation. Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.
- No data available.

Ingestion

- Acute (Immediate)
- Chronic (Delayed)
- Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.
- No data available.

Carcinogenic Effects

- This product does not contain any ingredient designed by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability	• No Data Found
Ecotoxicity	• No Data Found
Biological Oxygen Demand (BOD5)	• No Data Found
Chemical Oxygen Demand	• No Data Found
Additional Ecological Information	• The phosphate component of this product may act as a plant nutrient causing eutrofication.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Product Waste**

- In case of spill, contain material and call local authorities for emergency assistance. Collect in appropriate containers. Dispose of all waste in accordance with appropriate Federal, State and local regulations.

13.2 Container Disposal

- State and local requirements for container disposal often differ with Federal laws. Consult local authorities regarding proper disposal of drums and containers.

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name	• Not Applicable
DOT Hazard Class	• Not Applicable
U.N. Number	• Not Applicable
Reportable Quantity (RQ)	• 5,000#
Packaging Group	• Not Applicable

SECTION 15: REGULATORY INFORMATION**U.S. Federal Regulations**

Chemical Inventory Status – Part 1:

Ingredient	CAS #	TSCA	EC
Zinc Sulfate	7733-02-0	Yes	Yes
Sodium Bisulfate	7681-38-1	Yes	Yes

		SARA 302		SARA 313	
Ingredient	CAS #	RQ	TPQ	List	Chemical Catg.
Zinc Sulfate	7733-02-0	No	No	Yes	Yes (Zinc compounds)
Sodium Bisulfate	7681-38-1	No	No	No	No

Ingredient	CAS #	CERCLA	RCRA	TSCA 8(d)
Zinc Sulfate	7733-02-0	Yes (RQ = 1000 lbs)	No	No
Sodium Bisulfate	7681-38-1	No	No	No

Ingredient	CAS #	CWC	TSCA 12 (b)	SARA 311/312
Zinc Sulfate	7733-02-0	No	No	10,000 lbs
Sodium Bisulfate	7681-38-1	No	No	10,000 lbs

Ingredient	CAS #	Acute	Chronic	Fire	Pressure	Reactivity	Mixture/Solid
Zinc Sulfate	7733-02-0	Yes	Yes	No	No	No	Mixture
Sodium Bisulfate	7681-38-1	Yes	Yes	No	No	No	Mixture

CAS# 7733-02-0 is found on the following state right to know lists: California, New Jersey, Pennsylvania, and Massachusetts.

CAS# 7681-38-1 is found only on the following NJ right to know list.

SECTION 16: OTHER INFORMATION

Preparation Date: 01/01/2014

Last Revision Date: 06/01/2015

Disclaimer/Statement of Liability

- The information herein is given in good faith but no warranty, expressed or implied, is made.



OFFICIAL LISTING

NSF International Certifies that the products appearing on this Listing conform to the requirements of
NSF/ANSI Standard 60 - Drinking Water Treatment Chemicals - Health Effects

This is the Official Listing recorded on April 9, 2015.

Shannon Chemical Corp.
P.O. Box 376
Malvern, PA 19355
610-363-9090

Facility: Exton, PA

Chemical/
Trade Designation

Function

Max Use

Blended Corrosion Inhibitor

SHAN-NO-CORR Lead Free
SNC-4442

Corrosion & Scale Control
Corrosion & Scale Control
Sequestering

14.8 mg/L
13 mg/L

SNC-Lead Free

Corrosion & Scale Control

14.8 mg/L

SNC-N2

Corrosion & Scale Control

10 mg/L

SNC-NO LEAD

Corrosion & Scale Control

14.8 mg/L

SNC-RS2

Corrosion & Scale Control

10 mg/L

Blended Phosphates

SLI-1226

Corrosion & Scale Control

27 mg/L

SLI-5215

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5225

Corrosion & Scale Control

26 mg/L

Sequestering

SLI-5230

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5240

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5250

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5260

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5270

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5275

Corrosion & Scale Control

30 mg/L

Sequestering

SLI-5285

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5370

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-5385

Corrosion & Scale Control

28 mg/L

Sequestering

SLI-7150

Corrosion & Scale Control

30 mg/L

SLI-7275

Corrosion & Scale Control

30 mg/L

Sequestering

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

1 of 5



SLI-7425	Corrosion & Scale Control	28	mg/L
	Sequestering		
SLI-7450	Corrosion & Scale Control	28	mg/L
	Sequestering		
SLI-7575	Corrosion & Scale Control	36	mg/L
	Sequestering		
SLI-B	Corrosion & Scale Control	27	mg/L
SLI-DP	Corrosion & Scale Control	30	mg/L
SLI-HP	Corrosion & Scale Control	30	mg/L
	Sequestering		
SLI-K200	Corrosion & Scale Control	36	mg/L
	Sequestering		
SNC-1226	Corrosion & Scale Control	14	mg/L
SNC-5210	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5220	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5225	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5230	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5240	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5250	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5270	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5275	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5295	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5420	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-5520	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-7220	Corrosion & Scale Control	12	mg/L
	Sequestering		
SNC-7435	Corrosion & Scale Control	10	mg/L
	Sequestering		
SNC-HW	Corrosion & Scale Control	10	mg/L
SNC-TYPE B	Corrosion & Scale Control	10	mg/L
Citric Acid [2] [3]			
SE-CA-50	Membrane Cleaner	N/A	
	Well Cleaning Aid		
Hydrofluosilicic Acid			
SE-1900 L-25	Fluoridation	6	mg/L
Miscellaneous Corrosion Chemicals [ZN]			
SHAN-NO-CORR	Corrosion & Scale Control	10	mg/L
SHAN-NO-CORR Plus, SNC +	Corrosion & Scale Control	10	mg/L
SHAN-NO-CORR TYPE L	Corrosion & Scale Control	20	mg/L

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SHAN-NO-CORR TYPE N	Corrosion & Scale Control	10	mg/L
SHAN-NO-CORR ZOP	Corrosion & Scale Control	10	mg/L
SLI-333	Corrosion Control	25	mg/L
SLI-444 S	Corrosion & Scale Control	25	mg/L
SNC-444	Corrosion & Scale Control	10	mg/L
SNC-444 S	Corrosion & Scale Control	18.6	mg/L
SNC-ZOP 123	Corrosion & Scale Control	11	mg/L
SNC-ZOP 321	Corrosion & Scale Control	11	mg/L
Miscellaneous Treatment Chemical			
RSC-100X [1]	Ion Exchange Supplement	750	mg/L
Monosodium Orthophosphate			
SLI-5179	Corrosion Control	25	mg/L
SLI-SE 100	Corrosion Control	25	mg/L
SNC-5179	Corrosion & Scale Control	12.6	mg/L
	Sequestering		
SNC-MSP	Corrosion & Scale Control	12.6	mg/L
	Sequestering		
Phosphoric Acid			
SLI-PHOS 36	Corrosion & Scale Control	25	mg/L
SLI-PHOS 50	Corrosion & Scale Control	20.5	mg/L
SLI-PHOS 75	Corrosion & Scale Control	12	mg/L
Potassium Permanganate [PO]			
SE-3955 C	Disinfection & Oxidation Oxidant	50	mg/L
SE-3955 F	Disinfection & Oxidation Oxidant	50	mg/L
SE-3955 N	Disinfection & Oxidation Oxidant	50	mg/L
Sodium Acid Pyrophosphate			
SNC-318	Corrosion & Scale Control	12	mg/L
SNC-5185	Corrosion & Scale Control	12	mg/L
Sodium Permanganate [PO]			
SE-2355-10	Disinfection & Oxidation Oxidant	352	mg/L
SE-2355-15	Disinfection & Oxidation Oxidant	234	mg/L
SE-2355-20	Disinfection & Oxidation Oxidant	176	mg/L
SE-2355-25	Disinfection & Oxidation Oxidant	140	mg/L
SE-2355-40	Disinfection & Oxidation Oxidant	88	mg/L
Sodium Polyphosphates, Glassy			
SHAN-O-PHOS	Corrosion & Scale Control	10.7	mg/L
	Sequestering		
SLI-5125	Corrosion & Scale Control	42.8	mg/L
	Sequestering		
SLI-5130	Corrosion & Scale Control	35.6	mg/L
	Sequestering		

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.



SLI-5135	Corrosion & Scale Control Sequestering	30.5	mg/L
SLI-5140	Corrosion & Scale Control Sequestering	26.7	mg/L
SLI-5145	Corrosion & Scale Control Sequestering	23.8	mg/L
SLI-5150	Corrosion & Scale Control Sequestering	21.4	mg/L
SLI-5155	Corrosion & Scale Control Sequestering	19.5	mg/L
SLI-5160	Corrosion & Scale Control Sequestering	17.8	mg/L
SLI-Quest 25	Corrosion & Scale Control Sequestering	42.8	mg/L
SLI-Quest 30	Corrosion & Scale Control Sequestering	35.6	mg/L
SLI-Quest 35	Corrosion & Scale Control Sequestering	30.5	mg/L
SLI-Quest 40	Corrosion & Scale Control Sequestering	26.7	mg/L
SLI-Quest 45	Corrosion & Scale Control Sequestering	23.8	mg/L
SLI-Quest 50	Corrosion & Scale Control Sequestering	21.4	mg/L
SLI-Quest 55	Corrosion & Scale Control Sequestering	19.5	mg/L
SLI-Quest 60	Corrosion & Scale Control Sequestering	17.8	mg/L
SNC-5190	Corrosion & Scale Control Sequestering	10.7	mg/L
Sodium Tripolyphosphate			
SHAN-O-POLY	Corrosion & Scale Control Sequestering	12	mg/L
SNC-5177	Corrosion & Scale Control Sequestering	12	mg/L
Tetrapotassium Pyrophosphate			
SLI-6120	Corrosion & Scale Control Sequestering	30	mg/L
SLI-6134	Corrosion & Scale Control Sequestering	22.5	mg/L
SLI-K100	Corrosion & Scale Control Sequestering	30	mg/L
SLI-KPHOS	Corrosion & Scale Control Sequestering	22.5	mg/L
SNC-6157	Corrosion & Scale Control Sequestering	14	mg/L
SNC-KPHOS	Corrosion & Scale Control Sequestering	14	mg/L
Zinc Chloride [ZN]			
SLI-2125	Corrosion & Scale Control	15	mg/L
SLI-2150	Corrosion & Scale Control	8	mg/L

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SLI-2162	Corrosion & Scale Control	6	mg/L
Zinc Orthophosphate [ZN]			
SLI 3535	Corrosion & Scale Control	24	mg/L
SLI 4217	Corrosion & Scale Control	28	mg/L
SLI 5050	Corrosion & Scale Control	17	mg/L
SLI-1010	Corrosion & Scale Control	20	mg/L
SLI-1021	Corrosion & Scale Control	22	mg/L
SLI-1521-C	Corrosion & Scale Control	22	mg/L
SLI-2020	Corrosion & Scale Control	10	mg/L
SLI-321	Corrosion & Scale Control	10	mg/L
SLI-321L	Corrosion & Scale Control	10	mg/L
SLI-5024	Corrosion & Scale Control	16	mg/L
SLI-5215	Corrosion & Scale Control	40	mg/L
SLI-5216	Corrosion & Scale Control	29	mg/L
SLI-7215	Corrosion & Scale Control	28	mg/L
SLI-932	Corrosion & Scale Control	26	mg/L
SLI-939	Corrosion & Scale Control	25	mg/L

- [1] This product is designed to be used in conjunction with ion exchange resins for the purpose of reducing radium from drinking water.
- [2] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.
- [3] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.
- [PO] The finished drinking water shall be monitored to ensure that levels of manganese do not exceed 0.05 mg/L.
- [ZN] Based on an evaluation of health effects data, the level of zinc in the finished drinking water shall not exceed 2.0 mg/L.

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