RESOLUTION NO. 2020-70

Introduced by: Christine Crawford

A RESOLUTION AUTHORIZING THE CITY MANAGER TO AWARD THE BID AND AUTHORIZE THE EXPENDITURE OF FUNDS FOR THE PURCHASE OF WATER TREATMENT CHEMICALS TO SHANNON CHEMICAL CORPORATION IN AN AMOUNT NOT TO EXCEED TWENTY-SIX THOUSAND FOUR HUNDRED EIGHTY AND 00/100 DOLLARS (\$26,480.00)

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF HURON, OHIO:

SECTION 1. That the City of Sandusky having advertised for bids on behalf of the City of Huron and other entities, has provided a final bid tabulation indicating the lowest and best bid for each chemical and that based on that tabulation, the City Manager is authorized and directed to award the bid and expenditure of funds for the purchase of 4,000 gallons of Sodium Permanganate to Shannon Chemical Corporation in an amount not to exceed Twenty-Six Thousand Four Hundred Eighty and 00/100 dollars (\$26,480.00), bid in the form of Exhibit "A" attached hereto and made a part hereof.

SECTION 2. That this Council hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of this Council and that all deliberations of this Council and of its Committees, if any, which resulted in formal action, were taken in meetings open to the public in full compliance with applicable legal requirements, including O.R.C. §121.22.

SECTION 3. That this Resolution shall be in full force and effect from and immediately after its adoption.

Sam Artino, Mayor

ATTECT.

Clerk of Council

ADOPTED:

7 DET ZUZU

BIDDER'S NAME:	Shannon Chemical Corporation
Authorized Signature:	By: 1)(71-
Print Name of Authorized Signatory:	Daniel C. Flynn
Title:	V.POperations
Participant Name (If different from Bidder):	
Company Name:	Shannon Chemical Corporation
Mailing Address:	P.O. Box 376
	Malvern, PA 19355
Telephone Number:	610-363-9090
Facsimile Number:	610-524-6050
E-Mail Address:	dcflynn@shannonchem.com
Where Incorporated:	Pennsylvania
Federal Tax Identification Number:	23-1856793
Contact Person for Contract processing:	Daniel C. Flynn
ADDITIONAL SIGNA	ATURE FOR JOINT VENTURE
Authorized Signature:	Ву:
Print Name of Authorized Signature:	
Title:	
Participant Name:	
Mailing Address:	
Telephone Number:	
Facsimile Number:	

E-Mail Address:	
Where Incorporated:	
Federal Tax Identification Number:	
Contact Person for Contract processing:	

CITY OF SANDUSKY, HURON AND ERIE COUNTY **CHEMICALS FOR CALENDAR YEAR 2021**

TEM NO.	CHEMICAL DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
1	Liquid Sodium Permanganate (NaMnO ₄)	12,000 Gallons More or Less	\$ 6.57/gallon	\$ 78,840.00
2	Hydrofluosilicic Acid (H₂SiF ₆)	17,000 Gallons More or Less	\$	\$ No Bid
3	Sodium Hydroxide Liquid (NaOH)	50,000 Gallons More or Less	\$	\$ No Bid
4	Sodium Hypochlorite (NaOCI)	90,000 Gallons More or Less	\$	\$ No Bid
5	Aluminum Sulfate Polymer Blend - Liquid (Type One) $(AL_2(SO_4)_8)$	101,250 Gallons More or Less/ 550 Wet Tons	\$	\$ No Bid
6	Powdered Activated Carbon (PAC)	123,000 Pounds More or Less	\$	\$ No Bid
7	Ferrous Chloride Solution (FeC12)	350,000 Pounds More or Less Dry Weight \$/dry lbs of Fe	\$	\$ No Bid
8	Polymer - Liquid	60,000 Pounds More or Less	\$	\$ No Bid
9	Ferrous Chloride Solution (FeC12)	25,000 Gallons More or Less		s No Bid
10	Sodium Aluminate - Liquid	16,000 Gallons More or Less in bulk loads and/or 300 gallon totes	<i>ś</i>	ș No Bid
	Sodium Bisulfite Solution (Reducite)	7,000 Gallons in 300 Gallon Totes 900 Gallons in 15 Gallon Drums More or Less	S	ş No Bid
	Sodium Hypochlorite (NaOCI)	15,000 Gallons in 300 Gallon Totes 2,700 Gallons in 50 Gallon Drums 2,600 Gallons in 15 Gallon Drums More or Less	Ś	s No Bid
12 18	Polymer - Liquid	10,000 Pounds more or less in 2,300 Pound Totes	\$	s No Bid
14	Liquid Chlorine (CL ₂)	24,000 Pounds More or Less \$/lbs Deposit fee per 150 lb. cyclinder, if applicable	\$	\$ No Bid
15	Powdered Activated Carbon (PAC)	8 Tons More or Less	\$	\$ No Bid

CITY-BF-2 Updated 9/22/2020

CITY OF SANDUSKY, HURON AND ERIE COUNTY CHEMICALS FOR CALENDAR YEAR 2021

16	Sodium Hydroxide Liquid (NaOH)	12,000 Gallons More or Less	\$	\$ No Bid
17	Aluminum Chlorhydrate Polymer Blend - Liquid (Al ₂ (OH) ₅ Cl)	16,000 Gallons More or less	\$	\$ No Bid
18	Hydrofluosilicic Acid (H ₂ SiF ₆)	Hydrofluosilicic Acid (H ₂ SiF ₆) 4,000 Gallons More or Less \$		\$ No Bid
19	Liquid Sodium Permanganate (NaMnO ₄)	4,000 Gallons More or Less	\$ 6.62/gallon	\$ 26,480.00*
20	Chlorine (CL2)	24,000 Pounds More or Less	\$	\$ No Bid
21	Liquid Caustic Soda - 50% NaOH	4,000 Gallons More or Less.	\$	\$ No Bid
22	Hydrofluosilicic Acid - 25%	18,000 Pounds More or Less	\$	\$ No Bid
23	Polyaluminum Chloride Solution	250,000 Pounds More or Less	\$	\$ No Bid
24	Liquid Ferrous Chloride	40,000 Gallons More or Less	\$	\$ No Bid
25	Clarifiec CE-1593 Polymer	10 (275 gallion) Totes More or Less	\$	\$ No Bid
26	Sodium Hypochlorite (NaOCI)	17 (300 gailon) Totes More or Less	\$	\$ No Bid
27	Sodium Bisulfite Solution	15 (300 gallon) Totes More or Less	\$	\$ No Bid Bid: \$ 105,320.00
	Bidder Name: Shannon Chemical Corpo: Bidder Address: P.O. Box 376, Malvern Telephone Number: 610-363-9090 Fax Number: 610-524-6050 Email Addre	, PA 19355 / /	1-	BIU. 1 V 3 / 3 Z V • V V

Do not leave any boxes blank. If not bidding an item, state in cost box. See specifications for exact details

*1,800 Gallon Shipments

Updated 9/22/2020 CITY-BF-3

CERTIFICATION DRUG-FREE WORKPLACE

The applicant certifies it will provide a drug-free workplace by:

- a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition.
- b. Establishing an on-going drug-free awareness program to inform employees about:
 - 1. the dangers of drug abuse in the workplace;
 - 2. the grantee's policy of maintaining a drug-free workplace;
 - 3. any available drug counseling, rehabilitation and employee assistance programs; and
 - 4. the penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- c. Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph a;
- d. Notifying the employee in the statement required by paragraph a., as a condition of employment under the grant, the employee will;
 - 1. abide by the terms of the statement; and

Shannon Chemical Corporation

- 2. notify the employer of any criminal drug statute conviction for the violation occurring in the workplace no later than five (5) days after such conviction;
- e. Notifying HUD within ten (10) days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction.
- f. Taking one of the following actions, within 30 days of receiving notice under subparagraph (d)(2), with respect to any employee who is convicted;
 - 1. taking appropriate personnel action against such an employee, up to and including termination; or
 - 2. requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, State or local health, law enforcement or other appropriate agency;
- g. Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) through (f) above.

Daniel C. Flynn,	V.POperations	10/06/20
Name, Title Business Name	DC 27-	Date



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	PROJECT NAME: Chemicals 2021
·	CONTRACT NO.:
•	PERSONAL PROPERTY TAX
	CERTIFICATION
•	REQUIRED BY OHIO REVISED CODE SECTION 5719.042
FINANCE DIRECTOR CITY OF SANDUSKY	
•	
Shannon Chemical Corporation	
BIDDER'S NAME	
STATE OF Pennsylvania	
COUNTY OF SS:	
AWARD IS BEING CONSIDERED WAS I	THAT THE BIDDER TO WHOM CONTRACT NOT CHARGED WITH ANY DELINQUENT ERAL TAX LIST OF PERSONAL PROPERTY TO AT THE TIME THE BID WAS SUBMITTED CT.
	1022
	/ V / //
	NAME: (SIGNATURE)
	(SIGNATURE)
	NAME: (SIGNATURE) NAME: Daniel C. Flynn (PRINTED) TITLE: V.POperations
STATE OF Pennsylvania COUNTY OF Chester SS:	(SIGNATURE) NAME: Daniel C. Flynn (PRINTED)
COUNTY OF Chester SS:	(SIGNATURE) NAME: Daniel C. Flynn (PRINTED)



Specializing in LEAD and COPPER Corrosion Control

City of Sandusky

crey or bundaba	*1	
Bidder's Affida	evit -	
	PROJECT NAME.Chemicals for Calendar Year 20 CONTRACT:	21
	ETHICS CERTIFICATION PURSUANT TO OHIO REVISED CODE SECTIONS 9.24, 102.03, 102.04, 2921.42 AND 3517.13	
DIRECTOR OF ENGINE	EERING SERVICES	
Shannon Chemical	Corporation	
BIDDER'S NAM	TE .	
STATE OF Pennsyl	vania	
COUNTY OFChest	er SS:	
The undersigned	being duly sworn, deposes and states as follows:	
1. The under Bidder.	rsigned is duly authorized to make the statements herein on behalf of the	
2. No unreso Auditor of State.	olved finding for recovery has been issued against the Bidder by the	
shareholder, partner, mer	al or employee of the City of Sandusky is officer, director, trustee, mber or owner of the Bidder (each, a "Related Person"), or is a business f the family of the Bidder or a Related Person.	
4. Ar-officia	d or an employee of the City of Sandusky is an efficer, director, trustee,	
associate of a member of	file family of the Pidder or Related Person, but	
ath	e subject of the Contract is necessary supplies or services for the City of	
{02436332.DOC;2}	CITY-BA-1	



		Sandusky	Specializing in LEAD and COPPER Corrosion Control
	b.		r services are unobtainable elsewhere for the same or lower
	Ų.		ing furnished to the City of Sandusky on part of a continuing
			ing established prior to the Related Person becoming a Sity
		official or emp	nlovee:
	c.	the treatment a	accorded the City of Sandualry is either preferential to or the
			ccorded other customers of the Bidder in similar
		transactions	
	d.		anotion exculting in the Contract has been conducted at arms.
			all lanewledge by the City of the interest of the Keizted
		*	coribed in Exhibit A attached hereto; and
	e.		orsen has telten no part in the deliberations or decision of the
		City to the	and to the Cantract,
5.	The I	Bidder is a/an (se	elect one):
٥.	11101	oc) ita a a robbit	siect one).
□ Indivi	idual.	partnership, or	other unincorporated business association (including a
			tion organized under Ohio Revised Code Chapter 1785),
	estate	e, or trust.	
Corpo	oration	organized and ex	xisting under the laws of the State of Pennsylvania
☐ Labor			
organizations compliance von ORC, as app felony of the	Sections) or Swith the olicable of the fifth of	n 3517.13(I)(3), Section 3517.13(e political contril . I understand to degree pursuant	by affirms that the Bidder and each of the individuals, ORC, (with respect to non-corporate entities and labor $B(J)(3)$, ORC, (with respect to corporations) are in full ibutions limitations set forth in Sections 3517.13(I) and (J), that a false representation on this certification constitutes a to Sections 3517.13(AA) and 3517.992(R)(3), ORC. Any diffication shall be rescinded.
COLLEGE WILL	· ·	a a anni and a da m	anound than 50 resoluted.
			1)()2-
			NAME: / / /
Commonwealth of	Pennsylvar	nia - Notary Seal	(SIGNATURE)
KIMBERLY D'AN	ABROSIO - N	lotary Public	arram Dandal G. Bluma
My Commission	ester Count on Expires		NAME: Daniel C. Flynn
Commissio	n Number	1260997	(PRINTED)
			TITLE: V.POperations
STATE OF _	Penn	sylvania	
COUNTY O	F_C	hester	SS:
Sworn to bef	fore me	and subscribed i	in my presence this 6 day of October, 20 20.
			Kumberez O'Ambrusu
		······	NOTARY PUBLIC

CITY OF SANDUSKY BIDDER'S AFFIDAVIT EXHIBIT A

Project Name: _	Not Applicable	
Contract:		
Bidder's Name:	:	
Related official/	l/public employee:	
Name:		
Title/Pos	osition:	
Relation	n to Bidder:	



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CITY OF SANDUSKY BIDDER'S AFFIDAVIT #2

BIDDER'S AFF	IDAYII #2	•
	CONTRACT NAME:	Chemicals 2021
	LOBBYING AND CAI FINANCING CERTIFI	
DIRECTOR OF ENGINEERING SERVICES CITY OF SANDUSKY		
Shannon Chemical Corporation BIDDER'S NAME		
STATE OF Pennsylvania COUNTY OF Chester SS:		
The undersigned hereby certifies as follows: 1. The Bidder is and will remain in compliant and 121.60 et seq. of the Ohio Revised Code relating.	nce with the requiremeng to lobbying.	
2. The Bidder is and will remain in complict Code, Campaign Financing, including that all apprespect to non-corporate entities and labor organizate in full compliance with divisions (I)(1) and (J)(1)	licable parties listed in tions) or (J)(3) (with res	division (I)(3) (with pect to corporations)
	NAME: / (SIGNA' NAME: Daniel C.	FURE) Flynn
	(PRINTE	BD)



Specializing in LEAD and COPPER Corrosion Control

STATE OF	sylvania	•••			
COUNTY OFCh	ester	_ SS:			•
SWORN TO DAY OF0	BEFORE ME A	AND SUBSCE	RIBED IN MY PRI 20	ESENCE THIS _	6th
	Commonwealth of Pennsyl KIMBERLY D'AMBROSIO Chester Co My Commission Expir Commission Numb	o - Notary Public Sunty res Apr 7, 2023	KIMIDITE	O'Ambi Public	<u>who</u>

CITY OF SANDUSKY NON-COLLUSION AFFIDAVIT

STATE OF Pennsylvania }				
COUNTY OF Chester } ss:				
The undersigned hereby certifies as follows:				
(1) The bid to the City of Sandusky, Ohio, submitted in accordance with the Contract Documents has been prepared by the Bidder without collusion of	dated $10/06/20$ (the "Bid")			
(2) The Bid is not made in the interest of or on beha	alf of any undisclosed Person.			
(3) The Base Bid, any Unit Price and any Alternate independently without collusion, consultation, commof restricting competition as to any matter relating to any other Bidder.	nunication or agreement, or for the purpose			
(4) Unless otherwise required by law, the Base Bid, any Unit Price and any Alternate bid in the Bid have not been knowingly disclosed by the Bidder and will not be knowingly disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Price or Alternate bid.				
(5) No attempt has been made or will be made by the Bidder to induce any other Person to submit or not to submit a bid for the purpose of restricting competition.				
Date: October 6 , 20 20	Shannon Chemical Corporation			
	(Name of Bidder)			
	By: Daniel C. Flynn Signature of person authorized to bind			
	Signature of person authorized to bind the Bidder			

STATE OF Pennsylvania	
COUNTY OF Chester) ss)
SWORN TO BEFORE ME AND SOCTOBER 20 20 .	SUBSCRIBED IN MY PRESENCE THIS 6 DAY OF
(seal)	. 1
	Kembery D'Ambrustu
	Notary Public

Commonwealth of Pennsylvania - Notary Seal KIMBERLY D'AMBROSIO - Notary Public Chester County My Commission Expires Apr 7, 2023 Commission Number 1260997

CITY OF SANDUSKY BID GUARANTY AND CONTRACT BOND

(Section 153.571, Ohio Revised Code)

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned

Shannon Chemical Corporation, PO Box 376, Malvern PA 19355

(Name and Address)

Harco National Insurance Company

(Name of Surety)

as Surety, are hereby held and firmly bound unto the City of Sandusky, Ohio, as Obligee, in the penal sum of the dollar amount of the bid submitted by the Principal to the Obligee on October 13, 2020, to undertake the Project known as:

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas the above-named Principal has submitted a bid for the above-referenced Project;

NOW, THEREFORE, if the Obligee accepts the bid of the Principal and the Principal fails to enter into a proper Contract in accordance with the Contract Documents, including the bid, Plans, Specifications and details; and in the event the Principal pays to the Obligee the difference, not to exceed 10% of the penal sum hereof, between the amount specified in the bid and such larger amount for which the Obligee may in good faith contract with the Bidder determined by the Obligee to be the next lowest and best Bidder to perform the Work covered by the bid; or in the event the Obligee does not award the Contract to such next lowest and best Bidder and resubmits the Contract for bidding, the Principal pays to the Obligee the difference not to exceed 10% of the penal sum hereof, between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new Contract Documents, required advertising, and printing and mailing notices to prospective Bidders, whichever is less, then this obligation

shall be null and void, otherwise to remain in full force and effect. If the Obligee accepts the bid of the Principal and the Principal within 10 days after written notice of intent to award the Contract executes the Contract Form in accordance with the Contract Documents, including the bid, Plans, Specifications and details, which said Contract is made a part of this Bond the same as though set forth herein;

NOW ALSO, IF THE SAID Principal shall well and faithfully perform each and every condition of such Contract; and indemnify the Obligee against all damage suffered by failure to perform such Contract according to the provisions thereof and in accordance with the Contract Documents, including the Plans, Specifications and details therefor; and shall pay all lawful claims of Subcontractors, Material Suppliers, and laborers for labor performed and materials furnished in the carrying forward, performing, or completing of said Contract; we agreeing and assenting that this undertaking shall be for the benefit of any Subcontractor, Material Supplier or laborer having a just claim, as well as for the Obligee herein; then this obligation shall be void, otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal sum of this obligation as herein stated.

THE SAID Surety hereby stipulates and agrees that no modifications, omissions, or additions in or to the terms of the said Contract, the Work thereunder or the Contract Documents, including the Plans and Specifications therefor shall in anyway affect the obligations of said Surety on this Bond, and the Surety does hereby waive notice of any such modifications, omissions or additions in or to the terms of the Contract, the Work or the Contract Documents, including the Plans and Specifications.

SIGNED This 13th day of October	, 20 <mark>20</mark> .		
PRINCIPAL: Shannon Chemical Corporation			
BY: DAMIEL C. F.	ynn		
TITLE: V.P-CPERATIONS			
SURETY: Harco National Insurance Company	SURETY ADDRESS:		
	One Newark Center		
٨	Street		
BY: M/h	Newark , NJ 07102-5207		
Attorney-in-Fact	City State Zip		
Morgan S. Ellis, Attorney-in-Fact	610-205-5202		
	Telephone Number		
	SURETY AGENT'S ADDRESS:		
	Engle-Hambright & Davies, Inc.		
	Agency Name		
	1857 William Penn Way		
	Street		
	Lancaster, PA 17601		
	City State Zip		
	717-394-5681		
	Telephone Number		

POWER OF ATTORNEY HARCO NATIONAL INSURANCE COMPANY

INTERNATIONAL FIDELITY INSURANCE COMPANY

Member companies of IAT Insurance Group, Headquartered: 702 Oberlin Road, Raleigh, North Carolina 27605

KNOW ALL MEN BY THESE PRESENTS: That HARCO NATIONAL INSURANCE COMPANY, a corporation organized and existing under the laws of the State of Illinois, and INTERNATIONAL FIDELITY INSURANCE COMPANY, a corporation organized and existing under the laws of the State of New Jersey, and having their principal offices located respectively in the cities of Rolling Meadows, Illinois and Newark, New Jersey, do hereby constitute and appoint

SARAH E. JORDAN, MATTHEW J. SWANICK, JESSICA A WEIDENHAMMER, MORGAN S. ELLIS, BENJAMIN R. PINKERTON, VALERIE A. SASSAMAN, JON K. MILES, ASTRA M. MARX, ROBERT J. MILLER

Lancaster, PA

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said HARCO NATIONAL INSURANCE COMPANY and INTERNATIONAL FIDELITY INSURANCE COMPANY, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of HARCO NATIONAL INSURANCE COMPANY and INTERNATIONAL FIDELITY INSURANCE COMPANY and is granted under and by authority of the following resolution adopted by the Board of Directors of INTERNATIONAL FIDELITY INSURANCE COMPANY at a meeting duly held on the 13th day of December, 2018 and by the Board of Directors of HARCO NATIONAL INSURANCE COMPANY at a meeting held on the 13th day of December, 2018.

"RESOLVED, that (1) the Chief Executive Officer, President, Executive Vice President, Senior Vice President, Vice President, or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, HARCO NATIONAL INSURANCE COMPANY and INTERNATIONAL FIDELITY INSURANCE COMPANY have each executed and attested these presents on this 31st day of December, 2018



STATE OF NEW JERSEY County of Essex

STATE OF ILLINOIS
County of Cook

INSUR

Bond #

BB

Kenneth Chapman

Executive Vice President, Harco National Insurance Company and International Fidelity Insurance Company

On this 31st day of December, 2018 . before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of HARCO NATIONAL INSURANCE COMPANY and INTERNATIONAL FIDELITY INSURANCE COMPANY; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.



IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.

Shirelle A. Outley a Notary Public of New Jersey My Commission Expires April 4, 2023

CERTIFICATION

I, the undersigned officer of HARCO NATIONAL INSURANCE COMPANY and INTERNATIONAL FIDELITY INSURANCE COMPANY do hereby certify that I have compared the foregoing copy of the Power of Attorney and afficiavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand on this day, October 13, 2020

Irene Martins, Assistant Secretary



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Corporate Resolution

At the meeting of directors of SHANNON CHEMICAL CORPORATION, duly noticed and held on September 24, 2020 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 transaction, including but not limited to the execution of all bids, papers, documents, affidavits, bonds, sureties, contracts and acts and to receive and receipt therefore 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

10/06/20

Date

Seal:



Specializing in LEAD and COPPER Corrosion Control

Sodium Permanganate SE-2355-20

Affidavit of Compliance

SHANNON CHEMICAL CORPORATION certifies that SE-2355-20 complies in all aspects to the bid specifications for the City of Sandusky, OH and all participating public entities..

SHANNON CHEMICAL CORPORATION certifies that SE-2355-20, is ANSI/NSF Certified to Standard 60. All raw materials used in the formulation of SE-2355-20 meet or exceed the specifications for additives to potable drinking water as stated in the <u>Water Chemical Codex</u> and the <u>Water Chemical Codex</u>; Supplementary Recommendations for Direct Additives.

SE-2355-20 has the following chemical and physical characteristics:

Formula: NaMnO₄

Color: Deep Purple Solution

Specific Gravity: 1.17 ± 0.01

Density: $9.7\#/\text{gallon} \pm 0.1$

Concentration(Assay): $20.5\% \pm 1$

Solubility: Complete

pH: 5.0 - 8.0

Freezing Point: 6°C (21°F)

NSF Max Use: 176 mg/L

Daniel C. Flynn

Vice President-Operations

SHANNON CHEMICAL CORPORATION



Specializing in LEAD and COPPER Corrosion Control

LETTER OF CERTIFICATION

SE-2355-20 Sodium Permanganate

SE-2355-20 is a 20% liquid sodium permanganate solution with the following chemical and physical specifications:

Formula:

Color:

Specific Gravity:

Density:

Concentration(Assay):

Solubility:

pH:

Freezing Point:

NSF Max Use:

NaMnO₄

Deep Purple Solution

 1.17 ± 0.01

 $9.7 \#/\text{gallon} \pm 0.1$

20.5% ± 1

Complete

5.0 - 8.0

-6°C (21°F)

176 mg/L

General:

SHANNON CHEMICAL Corporation's liquid permanganates are widely used in potable drinking water as an effective oxidant. Other uses include taste and odor control, reduction of common metals (Fe and Mn), radium reduction and color reduction. Some utilities use sodium permanganate for H_2S control as well as preoxidant for HAA and THM control and reduction.

SE-2355-20 is available in 30 and 55 gallon drums, 275 gallon returnable totes and 4000 gallon bulk deliveries.

SE-2355-20 is certified to ANSI/NSF Standard 60. SE-2355-20 is equivalent and a replacement for Carusol 20 sodium permanganate.

Deni

Daniel C. Flynn Vice President-Operations SHANNON CHEMICAL CORPORATION



Safety Data Sheet

SEGUIONAL ADENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Product Identifier

Product Name: SE-2355-20

Trade Name: SE-2355-20

Synonyms: Sodium Permanganate Solution

CAS Number 10101-50-5

SDS Number/Grade 0072

1.2 Use of Substance/Mixture

Recommended use: Oxidizer

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 #: (800) 860-9090

SECTION 2: HAZARDS IDENTIFICATION ::

2.1 Emergency Overview

- SE-2355-20 is an odorless, dark purple liquid.
- The primary routes of exposure for SE-2355-20 are through inhalation, ingestion, skin absorption, and skin or eye contact.

HMIS Rating: Health-3 Fire-1 Reactivity-1

0-Minimal; 1-Slight Hazard; 2-Moderate Hazard; 3-Serious Hazard; 4-Severe Hazard

DANGER! Extremely powerful oxidizer. Will react violently with oxidizable materials.

2.2 Potential Health Effects

Inhalation:

• Acute inhalation toxicity data are not available. However, airborne

concentrations of sodium permanganate in the form of mist may cause

irritation to the respiratory tract.

Contact with Eyes: • SE-2355-20 is damaging to eye tissue on contact. It may cause burns that

result in damage to the eye.

Contact with Skin:

• Momentary contact of solution at room temperature may be irritating to

the skin, leaving brown stains. Prolonged contact is damaging to the skin.

Ingestion • SE-2355-20 if swallowed, may cause burns to mucous membranes of the

mouth, throat, esophagus, and stomach.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Sodium Permanganate Component

% • 19.5 – 21.5

CAS-No. • 10101-50-5

Hazard Data • PEL/C 5.0mg/m³

• TLV-TWA 0.20mg/m^3

UN# • 3214

a a

(2)







SECTION 4: FIRST AID MEASURES

Hazard Symbols

4.1 Eye Exposure• Flush eyes immediately with water while holding eyelids apart and open

for 15 minutes. Seek prompt medical attention.

4.2 Skin Exposure • Wash contaminated area with soap and water. Seek medical attention if a

rash appears or irritation is severe. Note: clothing must be rinsed with water immediately. Sodium Permanganate solution may react and ignite certain fabrics and textiles. Thoroughly wash all contaminated clothing

• Use caution and do not breathe mist or vapors. If exposed move to open

fresh air. If breathing is difficult or stopped, administer oxygen,

resuscitate, and call 911.

4.4 Ingestion

• Seek prompt medical attention. If an individual swallows product give copious amounts of water. NEVER give anything by mouth to an unconscious person.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

• Use large quantities of water.

Unsuitable Extinguishing Media

• Do not use foam, day chemicals, carbon dioxide or halon.

5.2 Special Hazards

Unusual Fire and Explosion

Hazards

• Extremely strong oxidizing agent. Keep away from heat. Do not allow contact with acids, peroxides, combustible materials, organics or any metals. May ignite wood and/or cloth

Special Fire Fighting **Procedures**

• Apply excess water to any fire. Wear self-contained breathing apparatus.

Flash Point

• None

NFPA Rating:

Health-3

Fire- 1

Reactivity- 1

SECTION 6: ACCIDENTAL RELEASE MEASURES:

6.1 Personal Precautions, Protective Equipment & Emergency Procedures

Personal Precaution

• Use proper personal protection equipment at all times when handling SE-2355-20. Remove all ignition sources in areas close to product.

Environmental Precaution

• Do not allow product to enter sewer system, drains, surface water, or well water. Notify proper state agencies immediately.

6.2 Methods and Material for Containment and Cleaning Up

Containment/Clean-up

• Immediately try to contain or dike effected area. Use diatomaceous earth or cover floor with dry absorbent product. DO NOT USE SAW DUST or other incompatible materials.

Dilute solution to 5% with water. Reduce with a thiosulfate, bisulfite, or iron salt. Neutralize solution using soda ash. Filter and decant solution. Deposit sludge in approved landfill and according to all Federal State and local regulations.

Note: Do not use paper towels or any paper products to clean up spill. This may start a fire.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling

• Always wash hands with soap and water after handling. Provide proper

ventilation. Do not eat, drink or smoke near SE-2355-20.

with NFPA 430 requirements for a Class II oxidizer.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage

• Do not store near combustible products. All containers need to be properly sealed. Keep away from sunlight and heat. Store in accordance

Ventilation

• Allow sufficient ventilation (natural or mechanical) to maintain exposure

below TLV/TWA.

SECTIONS: EXPOSURE CONTROL PERSONAL PROTECTION

8.1 Personal Protections

Respiratory Protection

• If the potential to exposure of mists or vapor exists always use an

approved N105H-MSHA mist respirator.

Hand Protection

• Wear protective rubber or plastic gloves.

Eye Protection

• Wear protective eye protection. i.e. face shield, goggles, safety glasses.

Other Protection

• Wear chemical protective apron if the potential for splashing exists. Remove clothing immediately if contaminated. Spontaneous ignition of

clothing may occur.

SECTION 9: RHYSICALIAND CHEMICAL PROPERTIES

9.1 General Information

Appearance

• Dark, deep purple color

Odor

• None

9.2 Important Health Safety and Environmental Information

Density

• 9.7#/gallon ± 0.1

Specific Gravity

• 1.16 ± 0.03

Solubility

Complete

Boiling Point

• 101°C (214°F)

Freezing Point

• -6°C (21°F)

pН

• 5.0 - 8.0

Vapor Pressure

• 760mm Hg at 105°C

Percent Volatile

•80%

SECTION DESCABILITAY AND REACTIVELY

10.1 Chemical Stability

• SE-2355-20 is stable under normal ambient conditions of temperature and pressure.

10.2 Conditions to Avoid

• Heat, sunlight, acids, peroxides, metals, metal oxides, organics, any

oxidizable materials

10.3 Incompatible Materials

• None

10.4 Hazardous

Decomposition Products

• Avoid contact with HCL. Hydrochloric acid this may cause chlorine

gas to be generated.

10.5 Hazardous Polymerization

Will not occur

SECTION LE L'OXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Irritating to skin and body tissues. There is no established acute toxicity for Sodium Permanganate. It is logical to assume acute toxicity will be very similar if not identical to that of potassium permanganate which is listed below.

Ingestion

• LD 50 oral rat: 780 mg/kg male (14 days); 525 mg/kg female (14 days).

• Harmful if swallowed. ALD: 10g. Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the

intestine. Liver and kidney injuries may occur.

Skin Contact

•LD 50 dermal: no data available Major effects of exposure: severe

irritation, brown staining of skin.

Inhalation

•LC 50 inhale. No data available. The product may be absorbed into the body by inhalation. Major effects of exposure: respiratory disorder, cough.

11.2 Chronic Toxicity

No data or known cases of chronic poisoning due to over exposure to permanganates.

11.3 Carcinogenicity

SE-2355-20 has not been classified as a carcinogen by ACGIH, NIOSH, OSHA, NTP, or IARC.

Specifically decological information

No aquatic toxicity is available for sodium permanganate. Toxicity is expected to be similar to that of potassium permanganate. The toxicity data for potassium permanganate is given below:

96Hr LC50	Rainbow trout	1.8mg/L
96Hr LC50	Bluegill sunfish	2.3mg/L
96Hr LC50	Mike fish (Chanos Chanos)	1.4mg/L
96Hr LC50	Carassius auratus	3.3 – 3,93mg/L (static)
96Hr LC50	Cyprinus carpio	2.97 – 3.11mg/L
96Hr LC50	Cyprinus carpio	3.16 - 3.77 mg/L
96Hr LC50	Lepomis macrochirus	2.3mg/L (flow-through)
96Hr LC50	Lepomis macrochirus	1.8 - 5.6mg/L (static)
96Hr LC50	Lepomis macrochirus	2.7mg/L (static)
96Hr LC50	Oncorhynchus mykiss	1.08 - 1.38 mg/L

SECTION 18: DISPOSAL CONSIDERATIONS

• Sodium Permanganate is a D001 hazardous (ignitable) waste. Follow all Federal, State and Legal regulations for proper disposal.

SECTION 14-TERANSPORT INFORMATION

Proper Shipping Name	 Permanganates, Inorganic, Aqueous solution, n.o.s. (contains sodium permanganate)
DOT Hazard Class	• Oxidizer
U.N. Identification	• 3214
Packaging Group	• II
Division	• 5.1

SECTION 15-REGULATORY INTORMATION

OSHA Status

• This product is hazardous under the criteria of the Federal OSHA Hazard

Communication Standard CFR 1910.1200.

TSCA Status: • Listed in the TSCA inventory

SARA Extremely

Hazardous Substances:

• This product does not contain any chemicals subject to reporting

requirements.

SARA Hazard Categories • Acute Y

• Chronic Y

• Fire Y

• Pressure Y

CERCLA Reportable Quantity •No DOT reportable quality.

RCRA Status: •If discarded in this form (20% solution) the product is considered a D001

hazardous (ignitable) waste.

SECTION 16: OTHER INFORMATION

Preparation Date: 01/01/2014 Last Revision Date: 04/01/2020

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 August 1, 2018.

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 [ZN]	Corrosion & Scale Control	15	mg/L
SNC-4442	Corrosion & Scale Control	13	mg/L
	Sequestering		
SNC-Lead Free ^(ZN)	Corrosion & Scale Control	15	mg/L
SNC-N2	Corrosion & Scale Control	10	mg/L
SNC-NO LEAD [ZN]	Corrosion & Scale Control	15	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		
8LI-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.

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SLI-7425	Corrosion & Scale Control	28	mg/L
	Sequestering		
\$LI-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		<u>.</u>
SNC-5240	Corrosion & Scale Control	10	mg/L
	Sequestering		-
SNC-5250	Corrosion & Scale Control	10	mg/L
DAC-2234	Sequestering		
SNC-5270	Corrosion & Scale Control	10	mg/L
511C- 32 10	Sequestering		5.
SNC-5275	Corrosion & Scale Control	10	mg/L
anc-3275	Sequestering		
SNC-5295	Corrosion & Scale Control	10	mg/L
ONL-3253	Sequestering		
SNC-5420	Corrosion & Scale Control	10	mg/L
SNC-5520	Corrosion & Scale Control	10	mg/L
anc-5520	Sequestering		
SNC-7220	Corrosion & Scale Control	12	mg/L
SNC-7220	Sequestering	**	mg/ A
SNC-7435	Corrosion & Scale Control	10	mg/L
	Corrosion & Scale Control	10	mg/L
SNC-HW	Corrosion & Scale Control	10	mg/L
SNC-RS2	Corrosion & Scale Control	10	mg/L
SNC-TYPE B	COLLORION & SCALE CONCLOI	10	mg/D
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			
SHAN-NO-CORR [ZN]	Corrosion & Scale Control	10	mg/L
SHAN-NO-CORR Plus, SNC + [ZN]	Corrosion & Scale Control	10	mg/L
SHAN-NO-CORR TYPE L[ZN]	Corrosion & Scale Control	20	mg/L
SHAN-NO-CORR TYPE N ^[ZN]	Corrosion & Scale Control	10	mg/L

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			•
SHAN-NO-CORR-ZOP ^[ZN]	Corrosion & Scale Control	10	mg/L
SLI-333 (ZN)	Corrosion Control	25	mg/L
SLI-444 S	Corrosion & Scale Control	25	mg/L
SNC-444	Corrosion & Scale Control	10	mg/L
	Corrosion & Scale Control	18.6	mg/L
SNC-444 S SNC-ZOP 123 [ZN]	Corrosion & Scale Control	11	.mg/L
SNC-ZOP 123	Corrosion & Scale Control	11	mg/L
	CO120020 E 20220		<u>.</u>
Miscellaneous Treatment Chemical RSC-100X ^[1]	Ion Exchange Supplement	750	mg/L
Monosodium Orthophosphate		05	/1
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		
manufacto and d			
Phosphoric Acid	Corresion & Scale Control	25	mg/L
SLI-PHOS 36	Corrosion & Scale Control	20.5	mg/L
SLI-PHOS 50	Corrosion & Scale Control	12	mg/L
SLI-PHOS 75	COLIONION & DEGLE CONTRACTOR		•
Potassium Permanganate [PO]			mg/L
SR-3955 C	Disinfection & Oxidation	50	mg/ n
	Oxidant		
SE-3955 F	Disinfection & Oxidation	50	mg/L
	Oxidant		
SR-3955 N	Disinfection & Oxidation	50	mg/L
	Oxidant		
Sodium Acid Pyrophosphate			
SNC-316	Corrosion & Scale Control	12	mg/L
SNC-5185	Corrosion & Scale Control	12	mg/L
[PO]			
Sodium Permanganate [PO]	Disinfection & Oxidation	352	mg/L
SB-2355-10	Oxidant		3, -
	Disinfection & Oxidation	234	mg/L
8B-2355-15			
	Oxidant	176	mg/L
SB-2355-20	Disinfection & Oxidation	110	mg/ D
•	Oxidant	140	/T
SE-2355-25	Disinfection & Oxidation	140	mg/L
	Oxidant		
SB-2355-40	Disinfection & Oxidation	88	mg/L
	Oxidant		
Sodium Polyphosphates, Glassy			
SHAN-O-PHOS	Corrosion & Scale Control	10.7	mg/L
**************************************	Sequestering		
SLI-5125	Corrosion & Scale Control	42.8	ng/L
UMA "	Sequestering		
SLI-5130	Corrosion & Scale Control	35.6	mg/L
ÖПТ- ЭТЭА	Sequestering		
	• •		

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SLI-5135	Corrosion & Scale Control	30.5	mg/L
	Sequestering		
SLI-5140	Corrosion & Scale Control	26.7	mg/L
	Sequestering		
SLI-5145	Corrosion & Scale Control	23.8	mg/L
	Sequestering		
SLI-5150	Corrosion & Scale Control	21.4	mg/L
	Sequestering		•
SLI-5155	Corrosion & Scale Control	19.5	mg/L
	Sequestering		
SLI-5160	Corrosion & Scale Control	17.8	mg/L
DD2 3.00	Sequestering		5, _
CTT Chart 3E	Corrosion & Scale Control	42.8	mg/L
SLI-Quest 25		42.5	mg/ n
	Sequestering		
SLI-Quest 30	Corrosion & Scale Control	35.6	mg/L
	Sequestering		
SLI-Quest 35	Corrosion & Scale Control	30.5	mg/L
	Sequestering		
SLI-Quest 40	Corrosion & Scale Control	26.7	mg/L
	Sequestering		
SLI-Quest 45	Corrosion & Scale Control	23.8	mg/L
	Sequestering		
SLI-Quest 50	Corrosion & Scale Control	21.4	mg/L
	Sequestering		
SLI-Quest 55	Corrosion & Scale Control	19.5	mg/L
nas Edda as	Sequestering		···3/ —
SLI-Quest 60	Corrosion & Scale Control	17.8	mg/L
PTI-Sugar on		17.0	mg/ L
	Sequestering		
SNC-5190	Corrosion & Scale Control	10.7	mg/L
	Sequestering		
Sodium Tripolyphosphate			
SHAN-O-POLY	Corrosion & Scale Control	12	mg/L
	Sequestering		
SNC-5177	Corresion & Scale Control	12	mg/L
	Sequestering		
Tetrapotassium Pyrophosphate	· ,		
SLI-6120	Corrosion & Scale Control	30	mg/L
Sh1-6120		30	mg/ D
	Sequestering		
SLI-6134	Corrosion & Scale Control	22.5	mg/L
	Sequestering		
SLI-K100	Corrosion & Scale Control	30	mg/L
	Sequestering		
SLI-KPHOS	Corrosion & Scale Control	22.5	mg/L
	Sequestering		
SNC-6157	Corresion & Scale Control	14	mg/L
	Sequestering		
SNC-KPHOS	Corrosion & Scale Control	14	mg/L
	Sequestering		
Zinc Chloride [ZN]			
SLI-2125	Corrosion & Scale Control	15	mg/L
-			

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SLI -2150	Corrosion & Scale Control	8	mg/L
SLI-2162	Corrosion & Scale Control	6	mg/L
[2N]			
Zinc Orthophosphate		24	17
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-5210	Corrosion & Scale Control	20	mg/L
SLI-5215	Corrosion & Scale Control	40	mg/L
SLI-5216	Corrosion & Scale Control	29	mg/L
SLI-5217	Corrosion & Scale Control	28	mg/L
SLI-5218	Corrosion & Scale Control	25	mg/L
SLI-5219	Corrosion & Scale Control	22	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.