



BEFORE THE CITY COMMISSION
CITY OF STUART, FLORIDA

RESOLUTION NUMBER 77-2016

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF STUART, FLORIDA TO RENEW ITB NO. 2015-293, CHEMICALS FOR WATER TREATMENT PLANT/WATER RECLAMATION FACILITY ON AN "AS NEEDED" BASIS, FOR THE 1ST RENEWAL PERIOD THROUGH SEPTEMBER 30, 2017 TO THE FOLLOWING FIRMS, PROVIDING AN EFFECTIVE DATE; AND FOR OTHER PURPOSES.

* * * * *

NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF STUART, FLORIDA that:

SECTION 1: The City Commission of the City of Stuart hereby approves the first of two (2) renewal periods of ITB NO. 2015-293 Chemicals for Water Treatment Plant/Water Reclamation Facility for the period October 1, 2016 through September 30, 2017.

<u>Item</u>	<u>Vendor</u>	<u>Chemical</u>	<u>Amount</u>
1	Allied Universal Corporation.	Sodium Hypochlorite	\$68,160.00
2	Tanner Industries, Inc.	Anhydrous Ammonia	\$14,052.50
3	Florida Chemical Supply Inc.	Hydrofluorosilicic acid	\$8,700.00
4	Cheney Lime & Cement	Pebble Quicklime	\$124,880.00
5	Brenntag Mid South Inc.	Hydrochloric Acid	\$2,337.50
6	Shannon Chemical Corporation	Sodium Hexametphosphate	\$19,646.00
7	Sterling Water Technologies	Anionic Dry Polymer	\$5,569.98
8	Fort Bend Services, Inc.	Cationic Liquid Polymer	\$14,128.40
9	Thatcher Chemical of Florida, Inc	Liquid Ferric Sulfate	\$40,320.00
10	Brenntag Mid South Inc.	Liquid Ferric Chloride	\$28,050.00
	Overall Total		\$325,844.38

Resolution No. 77-2016
Renew ITB No. 2015-293 for Chemicals: Water Treatment Plant/Water Reclamation Facility

SECTION 2: This resolution shall take effect upon adoption.

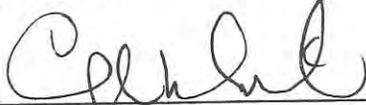
ADOPTED this 12th day of September 2016.

Commissioner MCDONALD offered the foregoing resolution and moved its adoption. The motion was seconded by Commissioner GLASS LEIGHTON and upon being put to a roll call vote, the vote was as follows:

JEFFREY A. KRAUSKOPF, MAYOR
EULA R. CLARKE, VICE MAYOR
TOM CAMPENNI, COMMISSIONER
TROY A. MCDONALD, COMMISSIONER
KELLI GLASS LEIGHTON, COMMISSIONER

YES	NO	ABSENT
X		
X		
		X
X		
X		

ATTEST:

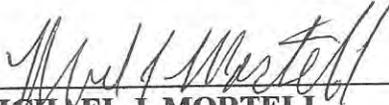


CHERYL WHITE
CITY CLERK



JEFFREY A. KRAUSKOPF
MAYOR

APPROVED AS TO FORM
AND CORRECTNESS:



MICHAEL J. MORTELL
CITY ATTORNEY





City of Stuart

121 SW Flagler Avenue • Stuart • Florida 34994
Department of Financial Services
Procurement & Contracting Services Division

Alaina Knofla
Procurement Specialist
aknofla@ci.stuart.fl.us

Telephone (772) 288-5320
Fax: (772) 600-1202
www.cityofstuart.us

July 25, 2016

Via Email Transmission: subach@brenntag.com

Brenntag Mid South, Inc.
Attn: Mr. Ray Sibbitt
250 Central Florida Parkway
Orlando, FL 32824

Subject: Renewal for ITB #2015-293, Chemicals at Water Treatment/Water Reclamation Facility

Dear Mr. Sibbitt,

This is official notification to your firm that the City of Stuart is satisfied with your firm's performance and wishes to extend your current contract for Hydrochloric Acid and Liquid Ferric Chloride for the period beginning October 1, 2016 and ending on September 30, 2017 which represents the first year of two (one year) renewal options. This extension is granted under the same terms, conditions, and pricing as the original contract. In addition, we need a current copy of Certification of Liability, Property Damage, and Automobile Liability, and Worker's Compensation as outlined in the ITB.

Please complete the bottom portion of this letter if your firm will agree to the requested renewal. Your response must be received **no later than 4:00 p.m., August 3, 2016**. You may fax your response to (772) 600-1202 or send by email to aknofla@ci.stuart.fl.us.

Thank you for your cooperation and immediate attention to this matter. Please contact me at (772) 288-5320, if you should have any questions.

Best Regards,

Alaina Knofla
Procurement Specialist

CC: ITB 2015-293 File

I hereby agree to the contract renewal as specified of the subject Agreement

I am unable to agree to the contract renewal as specified of the subject Agreement

(Signature)

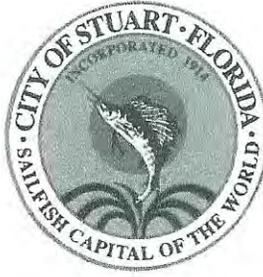
Printed Name

9/6/16

Date

District Manager

Title



BEFORE THE CITY COMMISSION
CITY OF STUART, FLORIDA

RESOLUTION NUMBER 82-2015

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF STUART, FLORIDA TO APPROVE THE AWARD OF ITB NO. 2015-293, CHEMICALS FOR WATER TREATMENT PLANT/WATER RECLAMATION FACILITY TO THE LOWEST, MOST RESPONSIVE RESPONSIBLE BIDDERS, ON AN AS NEEDED BASIS, TO THE FOLLOWING FIRMS, PROVIDING AN EFFECTIVE DATE; AND FOR OTHER PURPOSES.

* * * * *

NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF STUART, FLORIDA that:

SECTION 1: The City Commission of the City of Stuart, Florida approves the award of ITB No. 2015-293 to the lowest most responsive and responsible bidders for the purchase of chemicals on an as-needed basis to operate the Water Treatment Plant/Water Reclamation Facility. This contract will be awarded for an initial one year period with the option to renew for two additional one year periods. The chemicals and bidders involved are as stated below:

Item	Vendor	Chemical	Amount
1	Allied Universal Corporation.	Sodium Hypochlorite	\$68,160.00
2	Tanner Industries, Inc.	Anhydrous Ammonia	\$14,052.50
3	Florida Chemical Supply Inc.	Hydrofluorosilicic acid	\$8,700.00
4	Cheney Lime & Cement	Pebble Quicklime	\$124,880.00
5	Brenntag Mid South Inc.	Hydrochloric Acid	\$2,337.50
6	Shannon Chemical Corporation	Sodium Hexametphosphate	\$19,646.00
7	Sterling Water Technologies	Anionic Dry Polymer	\$5,569.98
8	Fort Bend Services, Inc.	Cationic Liquid Polymer	\$14,128.40
9	Thatcher Chemical of Florida, Inc	Liquid Ferric Sulfate	\$40,320.00
10	Brenntag Mid South Inc.	Liquid Ferric Chloride	\$28,050.00
	Overall Total		\$325,844.38

Resolution No. 82-2015
Award ITB No. 2015-293 for Chemicals: Water Treatment Plant/Water Reclamation
Facility

SECTION 2: This resolution shall take effect upon adoption.

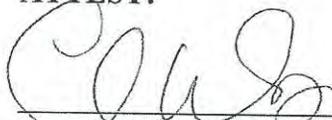
ADOPTED this 14th day of September 2015.

Commissioner MCDONALD offered the foregoing resolution and moved its adoption.
The motion was seconded by Commissioner CAMPENNI and upon being put to a roll
call vote, the vote was as follows:

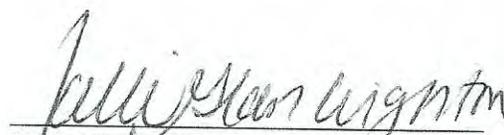
KELLI GLASS-LEIGHTON, MAYOR
JEFFREY KRAUSKOPF, VICE MAYOR
TOM CAMPENNI, COMMISSIONER
TROY MCDONALD, COMMISSIONER
EULA R. CLARKE, COMMISSIONER

YES	NO	ABSENT
X		
		X
X		
X		
X		

ATTEST:



CHERYL WHITE
CITY CLERK

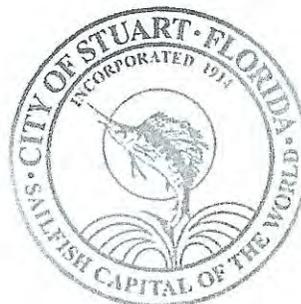


KELLI GLASS-LEIGHTON
MAYOR

APPROVED AS TO FORM
AND CORRECTNESS:



MICHAEL J. MORTELL
CITY ATTORNEY





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
09/25/2015

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 Marsh USA Inc. 1717 Arch Street Philadelphia, PA 19103-2797 424780-ALL-GAW-15-16	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:	FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE	
INSURED BRENNTAG NORTH AMERICA, INC. 5083 POTTSVILLE PIKE READING, PA 19605	INSURER A : Insurance Company Of The State Of PA	19429
	INSURER B : Greenwich Insurance Company	22322
	INSURER C : XL Specialty Insurance Company	37885
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** CLE-005004727-01 **REVISION NUMBER:** 3

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 SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		GL 0696955	01/01/2015	01/01/2016	EACH OCCURRENCE \$ 5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 5,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		RAD943713310	01/01/2015	01/01/2016	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	RWR943509010 (WI) RWD943509110 (AOS) RWD943544101 (AK)	01/01/2015 01/01/2015 01/01/2015	01/01/2016 01/01/2016 01/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 2,000,000 E.L. DISEASE - EA EMPLOYEE \$ 2,000,000 E.L. DISEASE - POLICY LIMIT \$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Re: ITB No. 2015-293, Chemicals for Water Treatment/Water Reclamation Facilities
City of Stuart is included as Additional Insured except for Workers Compensation, where required by written contract. Waiver of subrogation is applicable where required by written contract. This insurance is primary and non-contributory over any existing insurance and limited to liability arising out of the operations of the named insured and where required by written contract. The General Liability policy includes sudden and accidental coverage for pollution.

CERTIFICATE HOLDER City of Stuart 121 SW Flagler Ave Stuart, FL 34994	CANCELLATION 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 of Marsh USA Inc. Manashi Mukherjee <i>Manashi Mukherjee</i>
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City of Stuart

121 SW Flagler Avenue • Stuart • Florida 34994
Department of Financial Services
Procurement and Contracting Services Division

Lenora Darden, CPPB
Procurement Manager
purchasing@ci.stuart.fl.us

Telephone (772) 288-5320
Fax: (772) 600-0134

September 17, 2015

Via: Email transmission, subach@brenntag.com

Brenntag Mid South Inc.
Attn: Mr. Ray Sibbitt, District Manager
250 Central Florida Parkway
Orlando, FL 32824

Subject: Notice of Award
ITB No. 2015-293, Chemicals for Water Treatment/Water Reclamation Facilities

Dear Mr. Sibbitt:

The Stuart City Commission awarded ITB No. 2015-293, Chemicals for Water Treatment/Water Reclamation Facilities, to your firm on Monday, September 14, 2015, in the amount of **\$2,337.50 for Hydrochloric Acid and \$28,050.00 for Liquid Ferric Chloride**. Please consider this your formal notice of award. The City of Stuart requests that you provide all necessary insurance requirements within 10 days (September 27, 2015) as listed below:

A "Certificate of Insurance" which reflects all types and levels of coverage as noted in the Request for Proposal. The insurance certificate must also have printed in the "Remarks" box, words to the effect: **"The City of Stuart is an additional insured"**. The City requests that the insurance certificate lists the **project number and the project name**, ITB No. 2015-293, Chemicals for Water Treatment/Water Reclamation Facilities.

Orders from the City of Stuart will be placed throughout the contract period through the issuance of a Blanket Purchase Order, which will serve as your contract and notice to proceed, upon receipt of required documents. All services shall be coordinated with the City Project Manager, Mike Woodside at 772-288-5343 ext. 5444.

The initial contract period will be for one year, effective October 1, 2015 through September 30, 2016, with two one-year renewal options. The City reserves the right to exercise the option to renew annually, if mutually agreed upon in writing by both parties subject to the same terms and conditions of the original agreement. Annual renewals shall be subject to the appropriation of funds, vendor's satisfactory performance and determination that the contract renewal is in the best interest of the City.

The City of Stuart looks forward to a mutually beneficial business relationship. If you have any questions, please feel free to contact me by email at purchasing@ci.stuart.fl.us or call me at (772) 288-5320.

Sincerely yours,

Lenora Darden
Procurement Manager

Cc: Dave Peters, Assistant Public Works Director
Mike Woodside, Team Leader II
2015-293 ITB File



City of Stuart
121 SW Flagler Avenue
Stuart, FL 34994
Department of Financial Services

Lenora Darden
Procurement Manager

Procurement & Contracting Services Division
772.288.5320 PHONE

772.600.0134 FAX
purchasing@ci.stuart.fl.us

INVITATION TO BID

FOR: CHEMICALS: WATER TREATMENT/WATER RECLAMATION FACILITY

DATE: June 22, 2015

DEPT: Public Works

BID NUMBER: 2015-293

THIS IS NOT AN ORDER

Bids will be opened and publicly read aloud at City Hall, 121 S.W. Flagler Ave., Stuart, FL at 2:30 pm on Wednesday, the 29th day of July, 2015. Bids must be SUBMITTED ON THE desired.

Please attach this completed form as the top sheet for all bids submitted. Bid bonds, if required, may be in the form of a Surety Bond, Cashier's Check or Certified Check (checks payable to The City of Stuart).

Bidder's Name	<u>Ray Sibbitt</u>
Company Name	<u>Brenntag Mid South Inc</u>
Street Address	<u>250 Central Florida Parkway</u>
City, State, Zip	<u>Orlando Florida 32824</u>
Total Amount of Bid	<u>\$ 179,917.50</u>

It is the intent and purpose of the City of Stuart that this Invitation to Bid promotes competitive bidding. It shall be the bidder's responsibility to advise the Procurement Division if any language, requirements, etc., or any combination thereof, inadvertently restricts or limits the requirements stated in this Invitation to Bid to a single source. Such notification must be submitted in writing and must be received by the Procurement Division not later than ten (10) days prior to the bid opening date.

Hand Deliver Mail/Express Bids to:
Stuart City Hall
Procurement & Contracting Services Office
121 S.W. Flagler Avenue
Stuart, Florida 34994

A1 INSTRUCTIONS TO BIDDER

- A1.1 Each bidder shall furnish the information required on the bid schedule and each accompanying sheet thereof on which he makes an entry. Offers submitted on any other format are subject to disqualification.
- A1.2 **All bids must be submitted in a sealed envelope plainly marked on the outside with the invitation to bid number, date and time of opening.**
- A1.3 **All Bids Must Be Submitted in Triplicate. This includes specifically the bid cover page, the bid signature section (A2), any section on which annotations are required or exceptions are taken, the bid schedule (F), and any supporting documentation or literature being submitted with your bid.**
- A1.4 It is the bidder's responsibility to assure that Bids are received in the City of Stuart Procurement & Contracting Services Office, 121 SW Flagler Avenue, Stuart, Florida 34994, not later than **2:30 p.m., on the day and date shown above**. Any received after this date and time will not be accepted or considered, and will be returned unopened to the bidder. No telegraphic or facsimile offers will be considered.
- A1.5 Bids will be publicly opened and read aloud in the 1st Floor Conference Room at City Hall on the above appointed date at 2:30 p.m. or as soon as possible thereafter.
- A1.6 Bids may not be withdrawn for a period of 30 days after the public opening date.
- A1.7 Bidder's attention is specifically called to the terms and conditions of this solicitation.
- A1.8 Please check your prices before submitting your bid, as no change in prices will be allowed after the opening. All prices and notations must be in ink or typewritten. Be sure your bid is signed.
- A1.9 All items quoted must be in compliance with the specifications. Alternate bids will not be considered unless they are specifically called for in this solicitation.
- A1.10 Any actual or prospective bidder who protests the reasonableness, necessity or competitiveness of the terms and/or conditions of the invitation to bid, selection or award recommendation shall file such protest in writing to the Stuart City Manager with a copy to the City Procurement & Contracting Services Manager.
- A1.11 Questions relative to interpretation of specifications or the solicitation process shall be addressed to the Purchasing Agent, in writing, in ample time before the period set for the receipt of bids. Any interpretations, clarifications or changes made will be in the form of written addenda issued by the Procurement Office. Oral answers will not be authoritative.
- A1.12 It will be the responsibility of the bidder to contact the Procurement Office prior to submitting a bid to ascertain if any addenda have been issued, to obtain all such addenda, and to return executed addenda with their bid. **The Procurement & Contracting Services Office is located at 121 SW Flagler Avenue, Stuart, Florida 34994, telephone # (772) 288-5320, Fax (772) 600-0134, and email purchasing@ci.stuart.fl.us.**

A2 BID SIGNATURE SECTION

- A2.1 This sheet must be signed by a person authorized to sign for your firm and returned with your bid. Failure to comply will result in disqualification of submittal.
- A2.2 Delivery shall be a factor in award. Failure to perform within delivery deadline(s) set forth in the specifications or any other contract document shall constitute default.
- A2.3 Section Not Used
- A2.4 The City reserves the right to reject any or all bids, without recourse, to waive technicalities or to accept the bid which in its sole judgment best serves the interest of the City. Cost of submittal of this bid is considered an operational cost of the bidder and shall not be passed on to or be borne by the City.
- A2.5 Goods, services, supplies or equipment covered in the specifications shall be delivered F.O.B. Destination.
- A2.6 The City may accept any item or group of items on any bid unless the offeror qualifies his bid by specific limitations.
- A2.7 Bidders are requested not to contact the City Commission, requesting/evaluating Departments or Divisions after bids are opened. Any questions from bidders or evaluating Departments or Divisions will be answered through the Procurement Division.
- A2.8 If not bidding any or all items, please so state.
- A2.9 Bidders are expected to examine the specifications, delivery schedule, bid prices, extensions and all instructions pertaining to supplies and services. In the event of extension error(s), the unit price will prevail and the Bidder's total offer will be corrected accordingly. In the event of addition errors, the extended totals will prevail and the Bidder's total will be corrected accordingly. Bids having erasures or corrections must be initialed in ink by the Bidder.
- A2.10 Failure to comply with these instructions may result in disqualification of your bid.

Brenntag Mid South Inc

07/28/15

subach@brenntag.com

Firm Name

Date

Email Address



800-876-1727x213

Authorized Signature
(Manual)

Telephone Number

Ray Sibbitt/ District Manager

407-851-3512

Name/Title (Please Print)

Facsimile Number

Any questions regarding this Invitation to Bid should be addressed to the Procurement & Contracting Services Office, City of Stuart, Florida. Contact Purchasing: Email: purchasing@ci.stuart.fl.us, and Fax # (772) 600-0134.

B. GENERAL PROVISIONS

B1. Payment/Invoicing: No payment will be made for materials ordered without proper purchase order authorization. Payment cannot be made until materials, goods or services have been received and accepted by the City in the quality and quantity ordered. Payment will be accomplished by submission of invoice, in duplicate, with Purchase Order Number referenced thereon and mailed to: Financial Services Department, 121 S.W. Flagler Avenue, Stuart, FL 34994. Payment in advance of receipt of goods or services by the City of Stuart cannot be made.

B2. Purchasing Card Program:

A. Preferred method of payment is by means of the City of Stuart Purchasing Card (VISA). The selected Bidder(s) can take advantage of this program and in consideration receive payment within several days, instead of the City's policy of Net 30 Days After Receipt of Invoice (ARI).

B. Bidders are requested to acknowledge acceptance of purchasing VISA card on the Bid Schedule. In the event of failure on the part of the Bidder to make this statement, the City shall assume the purchase or Contract price shall be governed by the Net 30 ARI.

C. The City of Stuart offers bidders who commit to accepting the Purchasing Card as payment, a one percent (1%) reduction in their bid price for evaluation purposes only. When evaluating prices submitted by bidders in response to this solicitation, the total offered price of a bidder committed to accepting the Purchasing Card will be reduced by one percent, the resulting number is then compared to the other bidders' offered price. If the committed bidder is awarded the contract, the award will be at the original bid price.

B3. Fund Availability: Any contract resulting from this solicitation is deemed effective only to the extent of appropriations available.

B4. Permits/Licenses/Fees: Any permits, licenses or fees required will be the responsibility of the successful bidder, no separate payment will be made. Adherence to all applicable code regulations (Federal, State, County, City), are the responsibility of the successful bidder. Confined space permit may be required from the City of Stuart. Please see Section B23. **Safety Standards.**

B5. Taxes: The City of Stuart does not pay Federal excise or State sales taxes. Our tax exemption number is 85-8012740159C-6.

B6. Warranty: The bidder shall state the warranty offered against defective workmanship and material, if required, as specified in Section C-Special Provisions.

B7. Independent Pricing: By submission of this bid, the bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, that in connection with this procurement:

- A. The prices in this bid have been arrived at independently, without consultation, communication, or agreement with any other offeror or with any competitor for the purpose of restricting competition, or in any other way influencing the competitive arena.
 - B. Unless otherwise required by law, the prices, which have been quoted in this bid, have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly to any offeror or to any competitor.
 - C. No attempt has been made or will be made by the bidder to induce any other person or firm to submit or to not submit a bid for the purpose of restricting competition, or in any other way influencing the competitive arena.
- B8. **Inspection/Acceptance Title:** Inspection and acceptance will be at the City of Stuart's ordering department/division unless otherwise stipulated. Title and risk of loss or damage to all items shall be the responsibility of the vendor until accepted by the using department of the City, unless loss or damage results from negligence by the City or it's using Department.
- B9. **Changes:** the City of Stuart reserves the right to order, in writing, changes in the work within the scope of the contract such as change in quantity or delivery schedule. The contractor has the right to request an equitable price adjustment in cases where modifications to the contract under the authority of this clause result in increased costs to the contractor.
- B10. **Liability:** The vendor shall act as an independent contractor and not as an employee of the City of Stuart. The successful bidder is required to indemnify, defend, and hold and save harmless the City, its officers, agents, and employees, from damages arising from the vendor's performance of, or failure to perform, any task or duty required to be performed by the vendor.
- B11. **Conflict of Interest:** All offerors must disclose with their offer the name of any officer, director, or agent who is also an officer or employee of the City of Stuart. Further, all bidders must disclose the name of any City officer or employee who owns, directly or indirectly an interest of ten percent (10%) or more of the bidder's firm or any of its branches.
- B12. **Termination for Convenience:** The City of Stuart reserves the right to terminate the Agreement in whole or part by giving the vendor written notice at least thirty (30) days prior to the effective date of the termination. Upon receipt of termination notice from the City, the vendor shall only provide those services specifically approved or directed by the City. All other rights and duties of the parties under the Agreement shall continue during such notice period, and the City of Stuart shall continue to be responsible to the vendor for the payment of any obligations to the extent such responsibility has not been excused by breach or default of the vendor.

Upon termination, vendor shall bill the City of Stuart for all amounts not previously billed and due the vendor at that time. The vendor shall not be entitled to a professional fee nor to expenses for any work commenced or expenses incurred after the vendor received the notice of termination, unless specifically approved or requested by the City. The vendor shall however, be entitled to payment for services commenced and approved by the City prior to the receipt of notice, or with the express written consent of the City, prior to the effective date of termination.

- B13. **Termination for Default:** The performance of the Agreement may be terminated by the City of Stuart in accordance with this clause, in whole or in part, in writing, whenever the City shall determine that the contractor has failed to meet performance requirement(s) of the Agreement.
- B14. **Venue:** Any contractual arrangement between the City of Stuart and the vendor shall be consistent with, and be governed by, the ordinances of Martin County, the City of Stuart, the whole law of the State of Florida, both procedural and substantive, and applicable federal statutes, rules and regulations. Any and all litigation arising under any contractual arrangement shall be brought in the appropriate court in Martin County, Florida.
- B15. **Contract Modifications:** In addition to changes made under the changes clause, any contract resulting from this solicitation may be modified within the scope of the contract upon the written and mutual consent of both parties, and approval by appropriate legal bodies in the City of Stuart.
- B16. **The Contract:** Notice of award by the City of Stuart will constitute acceptance of the Bid. This bid package, including all terms, conditions and specifications, signed by the successful bidder along with the documentation included in the bidders submittal as required by this Invitation to Bid and other additional materials submitted by the bidder and accepted by the City shall constitute the contract. After notice of award, a valid certificate of insurance shall be issued to the City within 10 days. A purchase order will serve at the contract with an effective date of October 1, 2015.
- B17. **Force Majeure:** Neither party to this agreement shall be liable to the other for any cost or damages if the failure to perform the agreement arises out of causes beyond the control and without the fault or negligence of the parties. Such causes may include, but are not restricted to, acts of God, fires, quarantine restriction, strikes, and freight embargoes. In all cases, the failure to perform must be totally beyond the control and without the fault or negligence of the party. The delivery schedule, if applicable, shall be extended by a period of time equal to the time lost due to such delay.
- B18. **Proposal as Public Domain:** All documents and other materials made or received in conjunction with this project will be subject to public disclosure requirements of chapter 119, Florida Statutes. The bid will become part of the public domain upon opening. **Vendors shall not submit pages marked "proprietary" or otherwise restricted"**

- B19. **Equal Opportunity:** The City of Stuart recognizes fair and open competition as a basic tenet of public procurement and encourages participation by minority and women owned business enterprises. The City requests minority and women owned business enterprises submit evidence of certification with submittals.
- B20. **Assignment & Subcontracting:** The successful bidder will not be permitted to assign its contract with the City, or to subcontract any of the work requirements to be performed without obtaining prior written approval of the City of Stuart.
- B21. **Insurance:** The contractor shall, during the entire period of performance of any contract resulting from this solicitation, procure and maintain at least the minimum types of insurance as stipulated in the insurance attachment to this solicitation. Proof of such insurance must be provided to the City prior to beginning any contract performance.
- B22. **Additional Terms and Conditions:** No additional terms and conditions included with the bid response shall be evaluated or considered; any and all such additional terms and conditions shall have no force and effect and are inapplicable to this bid. If submitted either purposely through intent or design or inadvertently appearing separately in transmitting letters, specifications, literature, price lists, or warranties it is understood and agreed the general and special conditions in this solicitation are the only conditions applicable to this bid and the bidders authorized signature affixed to the bid signature section attests to this.
- B23. **Safety Standards:** All contractors and sub-contractors shall adhere to all Federal, State, County and City safety regulations and requirements. The City of Stuart safety manual is available for use by any vendor contracted to provide services, supplies and/or equipment to the City of Stuart.
- B24. **Public Entity Crimes:** Pursuant to the requirements of Section 287, Florida Statutes, all vendors are subject to those provisions pertaining to Public Entity Crimes and the Convicted Vendor List.
- B25 **Public Records:** In compliance with F.S. 119.0701 the Professional shall:
- A. Keep and maintain public records that would ordinarily and necessarily be required by the public agency in order to perform the service. This includes, without limitation, any and all financial, accounting, operational or service records or reports kept, generated or issued as a normal part of the services provided.
 - B. Provide the public with access to these public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in Chapter 119 or as otherwise provided by law.
 - C. Ensure that public records that are considered exempt or confidential, and therefore exempt from public records disclosure requirements, are not disclosed except as authorized by law.

- D. Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the Professional upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements.
- E. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency."
- F. If the Contractor does not comply with a public records request, the public agency shall enforce the contract provisions in accordance with the Contract.

C. SPECIAL PROVISIONS

- C1. **Intent:** The City of Stuart is seeking qualified and experienced vendors to furnish and deliver the specified chemicals on an "as needed" basis, in full accordance with the specifications, terms, and conditions contained in this Invitation to Bid (ITB).
- C2. **Minimum Requirements:** The bidder should submit the following information with their bid package to be considered responsive in order for the City to fully evaluate the firm's qualifications. Failure to fully submit the requested information may result in the bid being considered non-responsive.
 - A. Bidders are to provide a minimum of three (3) satisfactory references within the past five (5) years of similar accounts and size on the City provided form. Bidder is responsible for verifying correct phone numbers and contact information. Failure to provide accurate data may result in the reference not being obtained or considered.
 - B. Bidder must be an authorized agent, dealer, seller, or distributor for the sale and distribution of product.
 - C. Completion and submission of Questionnaire attached herein.
- C3. **References:** As part of the evaluation process, the City may conduct an investigation of references including a record check of consumer affairs complaints. Bidder's submission of bid constitutes acknowledgment of the process and consent to investigate. City is the sole judge in determining Bidder's qualifications.
- C4. **Qualification of Bidders:** This bid shall be awarded only to a responsive and responsible bidder, qualified to provide the work specified. Bids will be considered from firms who have adequate personnel and equipment and who are so situated as to perform prompt service. Bids will be considered only from firms which are regularly engaged in the business as described in this bid package; with a record of performance of not less than five (5) years, which have sufficient financial support, equipment, and organization to ensure that they can satisfactorily execute the service if awarded an Agreement under the terms and conditions herein stated. The terms "equipment and organization" as used herein shall be construed to mean a fully equipped and well-established company in line with the best business practice in the industry and as solely determined by the City.

- C5. **Quality:** The City will make the sole determination as to the suitability of goods when quality is a question or concern.
- C6. **Minimum Payment Terms:** Minimum payment terms shall be Net 30 days.
- C7. **F.O.B. Point:** F.O.B. point is **destination** for all deliveries. (See Section E5).
- C8. **Firm Prices:** The prices offered shall remain firm for the period of any agreement reached as a result of this invitation to bid.
- C9. **Other Entity Use:** The successful bidder(s) may be requested to convey their bid prices, contract terms and conditions, to municipalities or other governmental agencies within the State of Florida.
- C10. **Silence of Specifications:** The apparent silence of these specifications and any addenda hereto, as to any details; or the omission from it of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail and that the service provided shall be complete and without additional requirement to the utilizing public entity. All interpretations of these specifications shall be made upon the basis of this statement.
- C11. **Attachments:** There are five (5) attachments to this Invitation to Bid. The successful bidder must comply with attachments as follows:

- Attachment A Insurance Requirements ~Proof of ability to obtain insurance to be submitted with bid document.
- Attachment B Qualifications/Experience of Bidder
- Attachment C References
- Attachment D Bidder's Checklist
- Attachment E Statement of No Bid

D. AWARD OR REJECTION OF BIDS

D1. **Award of Contract:** The City of Stuart intends to award to the most responsive responsible bidder with the lowest bid. The purchase order will serve as the notice to proceed.

D2. Method of Award:

A. The City intends to award this bid on an item by item basis to a Primary bidder. Award of the primary will be determined in order of responsiveness, delivery, acceptance of purchasing card program, materials and service proposed, along with bidder's qualifications, adequate organization, and personnel to ensure prompt and efficient performance of work to the City. After the bid has been awarded, the Primary bidder will be used in every instance of ordering products as long as their firm is capable of delivering the product/material in question within the time specified in this bid. If the Primary bidder is not able to deliver the product in

question within the specified time, the City reserves the right to contact the secondary bidder with the subsequent lowest responsive responsible bid accordingly.

- B. Bidders are required to bid all items in Section E9, Technical Specifications and Bid Form to be considered. Bidder should not reference the words "No charge, N/A, included, etc." on any of the line items. Vendor must identify a monetary amount for each line item. If vendor is not providing a bid price for an item, zero (0) must be designated on that line item. Failure to identify a monetary amount for each item may cause bidder's bid response to be considered non-responsive and rejected.
- D3. **Modifications:** This bid shall be awarded only to a responsive and responsible bidder. Bidder hereby certifies that the terms and conditions, including but not limited to, the scope of work have not been altered or modified in any manner. Any modification to this solicitation by the bidder will result in Bidder's response being found non-responsive and thereby disqualified.
- D4. **Best Prices:** Award will be made without further negotiation based upon competitive bids; therefore your best price should be submitted in response to this invitation to bid.
- D5. **Rejection of Bids:** The City of Stuart reserves the right to reject any or all bids with or without cause when such rejection is in the best interests of the City, at the City's sole determination. The City also reserves the right to reject the bid of a bidder who has previously failed to perform properly or complete on time contracts of a similar nature, or whom investigation shows is not in a position to perform the contract.
- D6. **Determining Responsibility:** In determining responsibility, the following qualifications will be considered by the Procurement & Contracting Services Manager:
- A. The bidder's ability, capacity and skill to perform the contract or provide the service within the time specified.
 - B. The reputation, judgment and experience of the bidder.
 - C. The quality of performance of previous contracts or services including previous performance with the City.
 - D. Previous and existing compliance by the bidder with laws and ordinances relating to the contract or service.
 - E. Financial resources of the bidder to perform the contract or provide the service.
 - F. Ability to provide future maintenance and service for the use of the subject of the contract.
 - G. Whether the bidder is in arrears to the City on a debt or contract or is a defaulter on surety to the City, or whether the bidder's taxes or assessments are delinquent.

D7. **Contract Terms:** At all times during the term of the contract, the successful Contractor shall act as an independent Contractor and at no time shall be considered an agent or partner of the City.

A. **Contract Period:** This contract shall be awarded for an initial term of one (1) year subsequent to approval by the City Commission effective October 1, 2015. The contract may be renewed for two (2) additional one year periods provided both the successful bidder and the City agree and all terms and conditions remain the same. Any contract or amendment resulting from this solicitation shall be subject to fund availability and mutual written agreement between the City and the successful bidder. Extension of the contract for additional thirty (30) day periods for the convenience of either party shall be permissible at the mutual consent of both parties.

B. **Option to Extend:** The performance period of any contract resulting from this solicitation may be extended upon mutual agreement between the contractor and the City of Stuart with no change in terms or conditions. Any extension of performance period under this provision shall be in one-year increments. The contract may be renewed for two (2) additional one-year periods, provided both parties are in agreement. Total contract length, including individual one-year extensions, shall not exceed three (3) years. Consideration of price increases at each renewal period will be given provided such escalations are reasonable and acceptable to the City. Any price increases must be justified, documented and approved by the City of Stuart. It is also expected that de-escalation of prices will be extended to the City if the market so reflects.

C. **Contract Amendment:** The City may require additional items of a similar nature, but not specifically identified in the contract. The Contractor agrees to provide such items/services, and shall provide the City prices on such additional items or services based upon a formula or method which is the same or similar to that used in establishing the prices in this bid. If the price(s) offered are not acceptable to the City, and the situation cannot be resolved to the satisfaction of the City, the City reserves the right to procure those items/services from other vendors or to cancel the contract. Furthermore, the City reserves the right to delete or revise items and services under this bid at any time during the contract period when and where deemed necessary. Deletions may be made at the sole discretion of the City at any time during the contract period. Items revised must be mutually agreed upon in writing by the Contractor.

D. **Non Exclusive Contract:** Contractor agrees and understands that the contract shall not be construed as an exclusive arrangement and further agrees that the City may, at any time, secure similar or identical services at its sole option.

D8. **Method of Ordering:** A blanket purchase order shall be issued for the term of the award. The department(s) will order requirement(s) on an "as needed" basis. All terms, conditions and prices of the bid are applicable. Only awarded bid items may be purchased. Vendor is to take all necessary steps to insure this requirement. Invoices must reference Purchase Order.

D9. **Quantities:** The quantities specified are based on annual estimates. The City of Stuart

makes no guarantee regarding the quantity to be purchased and reserves the right to increase or decrease the total quantities, as necessary, to meet actual requirements.

- D10. **Performance:** The City heavily monitors the quality and performance of work performed and/or supplies furnished by the awarded vendor for future consideration and/or reference purposes. The City may return, for full credit, any item(s) received which fail to meet the City's performance standards.

E. SCOPE OF SERVICE

E1. General Information:

- A. The purpose of this bid is to purchase the specified chemicals on an "as needed" basis delivered to designated City of Stuart locations. Chemicals will be ordered on an "as needed" basis for the term of the agreement.
- B. Contract shall allow for all labor, materials, supplies, transportation, services and related services to supply chemicals to the City's Water and Water Reclamation Facilities on an "as needed" basis.

- E2. **Material Safety Data Sheet and Certificate of Analysis:** : In compliance with Florida's Occupational Safety and Health Statute (Chapter 442) any commodity delivery as a result of this bid must be accompanied by a current MSDS and Certificate of Analysis (COA) with bid package submittal and with each receipt of order.

Note: It is incumbent upon all bidders to include information sufficient in detail to allow for an informed decision process.

- E3. **Codes & Regulations:** Goods must be in accordance with the following:

- National Science Foundation (NSF)
- American Water Works Association(AWWA)
- Conformance with any other applicable local codes and standards

E4. Contractor Responsibility:

- A. The bidder shall be responsible for the protection of property in the areas appointed for delivery against spills. Contractor is responsible for clean-up of any spills.
- B. It is hereby made a part of this agreement that before, during and after a public emergency, disaster, hurricane, flood or Act of God that the municipal government, through the City of Stuart, shall require a "first priority" basis for goods and services. It is vital and imperative that the majority of citizens are protected from any emergency situation that threatens public health and safety.

E5. **Delivery Requirements:**

- A. All prices quoted shall be F.O.B. destination, freight prepaid (Bidder pays and bears freight charges, Bidder owns goods in transit and files any claims). The successful bidder shall be fully responsible for any and all travel expenses and/or delivery/transport charges to and from destination. Exact delivery points will be indicated on the purchase order. All bid prices shall be delivered price. The City will not be responsible for separate delivery fees.
- B. Delivery is requested within 72 hours after receipt of purchase order. Delivery coordination shall be made in advance with the City's Project Manager. No deliveries will be accepted before 7:00am or after 3:00pm. Back-orders shall be made known to the City at time of order placement. Failure to supply deliveries within requested time period may result in contract cancellation. Delivery locations are as specified below.
- C. The product shall be delivered on site to two (2) locations:
- Water Treatment Plant: 1002 Palm Beach Road, Stuart, Florida 34994
 - Water Reclamation Facility: 301 SE Stypmann Boulevard, Stuart, Florida 34994

E6. **Quality Assurance & Returned Goods:** All material shall conform to Florida Department of Transportation Standard Specifications latest edition. The successful bidder upon receipt of a purchase order shall assure the product conveyed is of the correct quantity and meets all specifications of the bid, purchase order and order release. Material, which does not meet bid and purchase order specifications and requirements, including quality standards, shall be subject to return to the vendor, at the expense of the vendor.

E7. **Alternate/Exceptions:** The Bidder shall be responsible for reading very carefully, and understanding completely, the requirements and the specifications of the items requested. Any deviation from specifications listed herein must be clearly indicated, otherwise it will be considered that items offered are in strict compliance with these specifications, and the successful bidder will be held responsible therefore; exceptions must be explained in detail on an attached sheet(s) and itemized by number. Any item(s) that does not meet City specifications upon delivery will not be accepted and if the item cannot be brought up to specifications in a reasonable time, the Bidder will be required to compensate the City for the difference in price entailed in going to the next qualified bidder. Bidders offering equivalent items must meet the general design and style given for the "as specified" item.

E8. **Technical Specifications:** The intent of this solicitation is to receive bids for the product specified. The materials specified cannot be substituted with any other materials. City of Stuart personnel shall make all determinations of equipment equivalence and compliance with specifications. Those determinations shall be final. These specifications are based on a particular level of performance required to be responsive to this ITB. Determination of whether an alternate product be offered, a detailed description of specifications **must** be submitted and included with your bid. Failure to comply will result in disqualification of

the bid submittal as non-responsive. Vendors will describe how they comply when asked to specify their compliance.

Technical Specifications					
Item No.	Chemical Description	Physical Data	Individual Shipment Quantities	Compliance	Used at WTP WWTP
1	Liquid Sodium Hypochlorite	<p>Density 1.10 – 1.30, SpG (10%) 1.163, (12%) 1.202</p> <p>Color: liquid=green-yellow</p> <p>Minimum strength of 120 grams per liter (12 trade percent by volume)</p> <p>Contaminant concentration limits:</p> <p>Iron < 0.3 mg/L Copper < 0.3 mg/L</p> <p>Nickel: < 0.3 mg/L Chlorate: < 2,500 mg/L</p> <p>Bromate < 20 mg/L Perchlorate < 20 mg/L</p> <p>Suspended Solids Test Time < 3 minutes</p> <p>The suspended solids in the sodium hypochlorite delivered under this contract shall be minimized and the shipments delivered shall achieve a filtration time of less than 3 minutes for 1,000 ml when applying the "Suspended Solids Quality Test for Bleach Using the Vacuum Filtration" Method co-developed by Dr. Bernard Bubnis of NovaChem.</p>	5,000 gallon combined deliveries, Tanker Truck	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	WTP WWTP
2	Anhydrous Ammonia	<p>SpG 0.62 @ 60 F, pH+ 11.6 (1 N sol. In water) % volatile by volume: 100</p> <p>Solubility in water: 33% @ 68F</p> <p>Vapor density: 0.6 @ 32 F</p> <p>Metallurgical Grade Anhydrous Ammonia</p>	<p>City owns a 1,000 gal tank,</p> <p>The average delivery size is 600 gals/3,000 lbs</p>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	WTP
3	Hydrofluosilicic Acid	<p>23 – 25% AWWA Standard B703-06</p> <p>No more than 0.020% heavy Metals (Mercury, Lead, Bismuth, and Copper expressed as Lead)</p>	300 gallon deliveries, Tanker Truck	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	WTP
4	Quicklime (Pebble Lime) *Florida Lime is Not Acceptable	<p>Not less than 92% available CaO</p> <p>SpG = 3.3, pH 11.7 – 12.5</p> <p>Slaking rate: 100g in 400g of water shall increase temperature from 25C to 72C in three minutes</p> <p>Size: 1/8" x 3/8" (maximum of 10% passing a 1/8" screen & nothing retained on 1/2" screen)</p>	25 ton deliveries, Tanker Truck with pneumatic unloading capability	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	WTP

5	Hydrochloric Acid 31.45% (muriatic acid)	20 Baume, 31.45% active ingredients 68.55% inert	55 gallon drums, Flat-bed Truck (20 drums)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	WTP
6	Sodium Hexametphosphate	Contain not less than 60% phosphorus pentoxide, 26.2 phosphorus, or 80.4% phosphate on an as-is basis, pH of 1% solution 5.7 – 7.3 The typical order size will be one (1) pallet of 50 bags (50 lbs each).	50 pound multi- walled, moisture proof bags, Enclosed Truck with lift-gate	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	WTP
7	Anionic Dry Polymer with a 30 positive charge	FBS 730	50 pound multi- walled, moisture proof bags, Enclosed Truck with lift-gate 500 lbs per order	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	WTP
8	Cationic Liquid Polymer	FBS 7602 The cationic liquid polymer at the Water Reclamation Facility is used for sludge dewatering with a belt press, price per gallon sold in 55 gallon containers @ 42% active content	55 gallon drums, Flat-bed Truck with lift-gate	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	WWTP
9	Liquid Ferric Sulfate	The liquid Ferric Sulfate shall conform to all applicable AWWA/ANSI standards, latest revisions, including ANSI/AWWA Standard B406 or the latest revision; "Standard for Ferric Sulfate". The liquid ferric sulfate shall be supplied as aqueous solution containing nor less than 12.5% ferric iron and contain no more than 0.1% ferrous iron, all soluble, which is approved for potable water treatment.	275 gallon semi- bulk tote bins Flat-bed Truck with lift-gate	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	WTP
10	Liquid Ferric Chloride	The liquid Ferric Chloride shall conform to all applicable AWWA/ANSI standards, latest revisions including ANSI/AWWA Standard 60 certified for use in potable water treatment.	275 gallon semi- bulk tote bins Flat-bed Truck with lift-gate	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	WTP

F. **BID SCHEDULE:** In accordance with the terms, conditions and specifications, the undersigned bidder hereby submits the following prices for supplying The City of Stuart with the goods and/or services called for in Bid #2015-293.

Item No.	Description	Estimated Quantity	Unit of Measure	Unit Price	Annual Price
1	12% Sodium Hypochlorite, liquid or <i>a minimum</i>	120,000	GAL	\$.68	\$ 81,600.00
2	Ammonia (NH3)	18,250 LB	GAL	\$	\$
3	Fluoride	3,000	GAL	\$	\$
4	Pebble Lime (CaO) (Quick Lime)	560	TON	\$	\$
5	Hydrochloric Acid 31.45%	1,100	GAL	\$ 2.125	\$ 2,337.50
6	Sodium Hexametaphosphate	19,000	LB	\$ 1.15	\$ 21,850.00
7	Polymer, anionic-granular	2,600	LB	\$	\$
8	Polymer, cationic liquid	1,430	GAL	\$	\$
9	Liquid Ferric Sulfate	18,000	GAL	\$ 2.56	\$ 46,080.00
10	Liquid Ferric Chloride	10,000	GAL	\$ 2.805	\$ 28,050.00
Item(s) #: <u>5</u> - Overall Total for all items that apply					\$ 179,917.50
Is Bidder offering the above product as specified? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
If No, bidder is to indicate their equivalent below and attach product literature.					
Item #: _____ Product _____		Item #: _____ Product _____			
Item #: _____ Product _____		Item #: _____ Product _____			
F.O.B. Destination: # <u>72</u> Hours for Delivery after receipt of order (ARO)					

Company Name: Brenntag Mid South Inc

Date: 07/28/15

Preferred method of payment is by the City Purchasing Card (VISA). **DO YOU ACCEPT THE PURCHASING CARD (VISA)?** Yes No

If you are not the successful bidder awarded as primary provider, would you accept serving as the secondary (backup) provider, with the same terms as conditions as your bid? Yes No

All Prices will remain firm for a period of forty-five (45) days from the date of Bid opening.

The City of Stuart offers bidders who commit to accepting the Purchasing Card, noted above in the Bid Schedule as payment method, a one percent (1%) reduction in their bid price for evaluation purposes only. When evaluating prices submitted by bidders in response to this solicitation, the total offered price of a bidder committed to accepting the Purchasing Card will be reduced by one percent, the resulting number is then compared to the other bidders' offered price. If the committed bidder is awarded the contract, the award will be at the originally bid price.

The undersigned bidder hereby certifies that the invitation to bid has not been altered in any manner; and that bidder has received all the Addenda listed below and has incorporated them into his Bid listed herein. Failure to acknowledge the above requirements will render the bid non-responsive and no further evaluation of the bid will occur.

ACKNOWLEDGEMENT IS HEREBY MADE OF RECEIPT OF ADDENDA ISSUED DURING THE SOLICITATION PERIOD:

ADDENDUM # THROUGH ADDENDA #

Company Name: Brenntag Mid South Inc Date: 07/28/15

Name of individual submitting Bid: Ray Sibbitt

Email address: subach@brenntag.com Ph: 800-876-1727 x213

AUTHORIZED SIGNATURE: 

ATTACHMENT A

INSURANCE REQUIREMENTS

The successful bidder shall **not** commence any work in connection with this agreement until it has obtained all of the following types of insurance and the City has approved such insurance. Nor shall the successful bidder allow any subcontractor to commence work on its subcontract until all similar insurance required of the subcontractor has been so obtained and approved.

Proof of the following insurance will be furnished by the successful bidder by Certificate of Insurance, which names the bidder, its officers, board members, employees and agents as additional insured on General Liability and Automobile Liability insurance policies. Such certificate must contain a provision for notification of the City 30 days in advance of any material change or cancellation. The City by and through its Risk Manager, reserves the right to review, modify, reject or accept any required policies of insurance, including limits coverages or endorsements, herein from time to time throughout the term of this contract. All insurance carriers must have an A.M. Best Rating of at least A: VII or better. When a self-insured retention or deductible exceeds \$5,000, the City reserves the right, but not the obligation, to review and request a copy of bidder's most recent annual report or audited financial statement.

All contractors including any independent contractors and subcontractors utilized must comply with the following insurance requirements:

1. Commercial General Liability including Bodily Injury/Property Damage, Personal & Advertising Injury and Products/Completed Operations coverage for at least \$5,000,000 Limit per claim. Products Liability shall extend coverage for pollution conditions that arise from chemicals manufactured, sold or distributed. The City shall be included as Additional Insured and policy shall contain a waiver of subrogation rights endorsement and coverage should respond as primary. If the policy is written on a claims made basis, the retroactive date shall be prior to or equal to the effective date of this contract. In the event the policy is canceled, non-renewed, switched to an occurrence form or there is a change in the retroactive date, the distributor shall purchase an extended reporting period rider during the life of the agreement of not less than 3 years.
2. Pollution Liability and Remediation Legal Liability coverage for at least \$5,000,000 Limit per claim. This shall provide coverage for loss, remediation expense and legal defense expense for sudden and gradual pollution conditions. The City shall be included as Additional Insured, policy shall contain a waiver of subrogation rights endorsement and coverage should respond as primary. If the policy is written on a claims made basis, the retroactive date shall be prior to or equal to the effective date of this contract. In the event the policy is canceled, non-renewed, switched to an occurrence form or there is a change in the retroactive date, the distributor shall purchase an extended reporting period rider during the life of the agreement of not less than 3 years.

3. Commercial Auto Liability with limit of at least \$1,000,000 per occurrence which provides coverage for any auto (owned, hired and non-owned) and shall not contain any exclusion for pollution legal liability as respects the transportation, loading and unloading of chemicals. The City shall be included as Additional Insured and the policy should contain a waiver of subrogation rights endorsement.
4. Worker's Compensation Insurance: The Contractor/Lessee/Service Provider shall take out and maintain during the life of this Agreement, Worker's Compensation Insurance with limits equal to Florida Statutory requirements. Employers liability must include limits of at least \$1,000,000 each accident, \$1,000,000 each disease/employee, \$1,000,000 each disease/maximum. A waiver of subrogation must be provided. Coverage should apply on a primary basis. Should scope of work performed by contractor qualify its employee for benefits under Federal Workers Compensation Statute, proof of appropriate Federal Act Coverage must be provided.
5. Loss Deductible Clause: The City shall be exempt from, and in no way liable for, any sums of money which may represent a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the Contractor and/or subcontractor providing such insurance.
6. Certificates of Insurance: The Contractor **upon notice of award** will furnish Certificate of Insurance Form within ten (10) days. These shall be completed by the authorized Resident Agent and returned to the Office of the Purchasing Manager. This certificate shall be dated and show:
 - (a) The name of the insured contractor, the specified job by name and job number, the name of insurer, the number of the policy, its effective date, and its termination date.
 - (b) Statement that the Insurer will mail notice to the City at least thirty (30) days prior to any material changes in provisions or cancellation of the policy.
 - (c) City shall be listed as Additional Insured on Commercial General Liability Insurance, Automobile Liability Insurance.

NOTE: The City can decrease or increase these limits, depending on the project, at its sole discretion. Any insurance provided which does not meet the above requirements will not be deemed acceptable under the terms of this contract unless accepted in writing by the City's Risk Manager.

ATTACHMENT B

QUALIFICATION OF BIDDERS INFORMATION/QUESTIONNAIRE

THIS IS A FILLABLE FORM

Part A - Qualifications Questionnaire

Information provided shall fully explain the firm's qualifications and experience of their Organization to provide chemicals for the City as stated below: **(Bidders may attach additional sheets, if necessary).**

Provide supporting documentation that Bidder is an authorized agent, dealer, seller, or distributor for the sale and distribution of product. Is supporting documentation included?

Yes No

Part B - Other Information

1. Contractor to provide details of uniform and identification worn by employees.
CLEARLY MARKED UNIFORMS WITH COMPANY NAME AND PICTURE ID
2. Provide office hours and contact information of staff responsible for coordination of services.
Monday through Friday basis from (7:00 a.m. through 3:00 p.m.)
407-857-9310 - customer service
3. Please provide 24-hour Emergency Contact Information if different than above:
John Warner
4. Number of year's organization has been in business. 47+ years
5. Have you any similar work in progress at this time? Yes No
6. Submission of quality control program: Yes No
7. Submission of Safety program: Yes No

Company Name Brenntag Mid South Inc

ATTACHMENT C

REFERENCES

Provide three (3) satisfactory references within the past five (5) years of similar complexity, nature, and size of this project.

#1 REFERENCE

Company/Entity Name: Pinellas County	
Address Po Box 2438	
City Clearwater	, State Fl Zip Code 33757
Contact Name: Marjorie Hammond	Title: Buyer
Phone No:(727) 453 - 6704 Fax:() -	
Email:	
Delivery Date: Weekly	Location Clearwater
Type of Product Supplied Sulfur Dioxide, Lime, Aluminum Sulfate, Sod Hydrogen, Chlorine	
Governmental or Private G	Dollar Value of Contract \$ -

#2 REFERENCES

Company/Entity Name: City of Pt St Lucie	
Address 121 SW Port St Lucie Blvd	
City Pt St Lucie	, State Fl Zip Code 33131
Contact Name: Karen	Title: Buyer
Phone No:(772) 871 - 5321 Fax:() -	
Email:	
Delivery Date:	Location Pt St Lucie
Type of Product Supplied Sodium Hypochlorite, Hydrochloric Acid, Soda Ash, Chlorine, Muriatic Acid, Citric Acid, Lime, Caustic, Sodium Hydroxide, +	
Governmental or Private G	Dollar Value of Contract \$ -

#3 REFERENCES

Company/Entity Name: Orange County	
Address 8100 Presidents Drive Suite D	
City Orlando	, State Fl Zip Code 32809
Contact Name: Tom	Title: Buyer
Phone No:(407) 254 - 7738 Fax:(407) 836 - 6910 Email:	
Delivery Date: Weekly	Location Orlando
Type of Product Supplied Chlorine, Sodium Hypochlorite, Caustic, Sodium Hydroxide, Calcium Hypochlorite,	
Governmental or Private G	Dollar Value of Contract \$ -

Company Name Brenntag Mid South Inc

ATTACHMENT D

BIDDERS CHECKLIST

This checklist is provided to assist each Bidder in the preparation of their bid response. Included in this checklist are important requirements, which is the responsibility of each Bidder to submit with their response in order to make their response fully compliant. This checklist is only a guideline~ it is the responsibility of each Bidder to read and comply with the Invitation to Bid in its entirety.

Is Bid envelope marked accordingly?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is Invitation to Bid cover page (page 1) completed, signed and attached?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is copy of bidder's valid Business Tax Receipt submitted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is Bid Schedule Form completed, signed and attached?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is safety report and Quality program included?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is bid submitted in triplicate (one original, two copies) ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Bidder must submit proof that their firm name is registered. with their State of origin	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is proof of insurance included?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is minimum Qualification of Bidders/Questionnaire information included?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is Reference Form completed and enclosed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is MSDS or COA submitted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Are addendum (if any issued) signed and submitted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Submit a copy of all Licenses, Certificates, or Registrations, held by Bidder	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is W-9 Form completed, signed and attached?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
All prices have been reviewed for mathematical accuracy, all price corrections initialed, and all price extensions and totals thoroughly checked.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Company Name Brenntag Mid South Inc

ATTACHMENT E

STATEMENT OF "NO BID"

If you do not intend to bid on this requirement, please complete and return this form prior to date shown for receipt of bids to: The City of Stuart Procurement & Contracting Services Office, 121 S.W. Flagler Avenue, Stuart, Florida 34994.

We have declined to bid on this solicitation for the following reasons.

- Specifications too "restrictive", i.e., geared toward one brand or manufacturer (please explain below)
- Insufficient time to respond to Invitation to Bid.
- We do not offer this product or equivalent.
- Our project schedule would not permit us to perform.
- Unable to meet specifications.
- Unable to meet bond requirements.
- Specifications unclear (please explain below).
- Other (please specify below).

REMARKS: _____

WE UNDERSTAND THAT IF THE "NO BID" LETTER IS NOT EXECUTED AND RETURNED, OUR NAME MAY BE DELETED FROM THE LIST OF QUALIFIED BIDDERS FOR THE CITY OF STUART FOR FUTURE PROJECTS.

Typed Name and Title _____

Company Name _____

Address _____

Signature _____ Title _____

Telephone Number _____ Date _____

ABS Quality Evaluations

Certificate Of Conformance

This is to certify that the Quality Management System of:

Brenntag Mid-South, Inc.

Headquarters

**1405 Hwy. 136 West
Henderson, KY 42420
U.S.A.**

(WITH ADDITIONAL FACILITIES LISTED ON ATTACHED ANNEX)

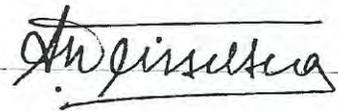
has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:

ISO 9001:2008

The Quality Management System is applicable to:

TOLLING, BLENDING, PACKAGING, DISTRIBUTION, WAREHOUSING, AND DELIVERY OF CHEMICALS.

Certificate No: 30523
Original Certification Date: 08 December 1993
Effective Date: 29 October 2014
Expiration Date: 08 November 2017
Revision Date: 29 October 2014



Alex Weisselberg, President



Validity of this certificate is based on the periodic audits of the management system defined by the above scope and is contingent upon prompt, written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.

ABS Quality Evaluations, Inc. 16855 Northchase Drive, Houston, TX 77060, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

ABS Quality Evaluations

ISO 9001:2008

Certificate Of Conformance

ANNEX

Certificate No: 30523

Brenntag Mid-South, Inc.

At Below Facilities:

Facility: Distribution Center
4616 South Enterprise Drive
Bartonville, IL 61607
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Distribution Center
4510 Gilbertsville Road
Calvert City, KY 42029-1309
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Packaging Plant
317 Wauhatchie Pike
Chattanooga, TN 37419
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
1575 Sunshine Drive
Clearwater, FL 3758
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Distribution Center
2627 121 N.W.
Decatur, IL 62526-9454
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Packaging Plant
2225 Lawrence Avenue
East Point, GA 30344
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

ABS Quality Evaluations

ISO 9001:2008

Certificate Of Conformance

ANNEX

Certificate No: 30523

Brenntag Mid-South, Inc.

At Below Facilities:

Facility: Packaging Plant
324 East Yusen Drive
Georgetown, KY 40324
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Distribution Center
134 Reliance Drive
Hebron, OH 43025
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Packaging Plant
1405 Hwy. 136 West
Henderson, KY 42420
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
3111 North Post Road
Indianapolis, IN 46266
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
5200 Stillwell Avenue
Kansas City, MO 64120
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
6301 NE Birmingham Road
Kansas City, MO 64117
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

Brenntag Mid-South, Inc.

July 28, 2015

Safety Report for Brenntag Mid-South Inc Orlando Location

LLTI Days – 2,149

LLTI Date – 09/08/2009

Murphy

Request for Taxpayer Identification Number and Certification

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

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Brenntag Mid-South, Inc

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification; check only one of the following seven boxes:
 Individual/sole proprietor or single-member LLC
 C Corporation
 S Corporation
 Partnership
 Trust/estate
 Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____
 Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.
 Other (see Instructions) ▶ _____

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

5 Address (number, street, and apt. or suite no.)
PO Box 20

6 City, state, and ZIP code
Henderson, KY 42419-0020

7 List account number(s) here (optional)

Requester's name and address (optional)

Print or type
See Specific Instructions on page 2.

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Social security number								
			-			-		
Or								
Employer identification number								
6	1	-	0	5	0	4	5	4

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

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

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here Signature of U.S. person ▶ Jessica Williams Date ▶ 1/6/2015

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

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

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.
 If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

- By signing the filled-out form, you:
- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
 - Certify that you are not subject to backup withholding, or
 - Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
 - Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

FLORIDA DEPARTMENT OF STATE
DIVISION OF CORPORATIONS



Detail by Entity Name

Foreign Profit Corporation

BRENNTAG MID-SOUTH, INC.

Filing Information

Document Number	823462
FEI/EIN Number	610504545
Date Filed	10/28/1969
State	KY
Status	ACTIVE
Last Event	CORPORATE MERGER
Event Date Filed	07/27/2001
Event Effective Date	08/01/2001

Principal Address

1405 Highway 136 West
Henderson, KY 42420

Changed: 04/10/2015

Mailing Address

1405 Highway 136 West
Henderson, KY 42420

Changed: 04/10/2015

Registered Agent Name & Address

CT CORPORATION SYSTEM
1200 S. PINE ISLAND ROAD
PLANTATION, FL 33324

Name Changed: 06/22/1992

Address Changed: 06/22/1992

Officer/Director Detail

Name & Address

Title President, Director

Hopper, Joel R
1405 Highway 136 West
Henderson, KY 42420

Title Secretary, Director

Boyadjian, H Edward
 5083 Pottsville Pike
 Reading, PA 19605

Title Director

Klaehn, Markus
 5083 Pottsville Pike
 Reading, PA 19605

Title Senior Vice President

Massie, Chad
 1405 Highway 136 West
 Henderson, KY 42420

Title VP

Roberts, Corey
 1405 Highway 136 West
 Henderson, KY 42420

Title Executive VP

Skipp, Andrew K
 1405 Highway 136 West
 Henderson, KY 42420

Title Tax Officer

Winslow, Robert
 5083 Pottsville Pike
 Reading, PA 19605

Annual Reports

Report Year	Filed Date
2014	04/07/2014
2014	07/21/2014
2015	04/10/2015

Document Images

<u>04/10/2015 -- ANNUAL REPORT</u>	View image in PDF format
<u>07/21/2014 -- AMENDED ANNUAL REPORT</u>	View image in PDF format
<u>04/07/2014 -- ANNUAL REPORT</u>	View image in PDF format
<u>04/19/2013 -- ANNUAL REPORT</u>	View image in PDF format
<u>04/26/2012 -- ANNUAL REPORT</u>	View image in PDF format
<u>04/12/2011 -- ANNUAL REPORT</u>	View image in PDF format



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
03/03/2015

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
Marsh USA Inc.
1717 Arch Street
Philadelphia, PA 19103-2797

CONTACT NAME:
PHONE (A/C, No, Ext):
E-MAIL ADDRESS:
FAX (A/C, No):

424780-*ALL-GAW-15-16

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A:	Insurance Company Of The State Of PA	19429
INSURER B:	N/A	N/A
INSURER C:	N/A	N/A
INSURER D:		
INSURER E:		
INSURER F:		

INSURED
BRENNTAG MID-SOUTH, INC.
1405 HIGHWAY 136 WEST
HENDERSON, KY 42420

COVERAGES

CERTIFICATE NUMBER:

CLE-003285220-22

REVISION NUMBER: 3

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 <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC			GL 0696955	01/01/2015	01/01/2016	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 1,000,000
							PRODUCTS - COMP/OP AGG	\$ 1,000,000
								\$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident)	\$
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
	UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE	\$
							AGGREGATE	\$
								\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						WC STATUTORY LIMITS	OTHER
							E.L. EACH ACCIDENT	\$
							E.L. DISEASE - EA EMPLOYEE	\$
							E.L. DISEASE - POLICY LIMIT	\$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
RE: Evidence of Coverage Only

CERTIFICATE HOLDER

CANCELLATION

BRENNTAG MID-SOUTH, INC.
1405 HIGHWAY 136 WEST
HENDERSON, KY 42420

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
of Marsh USA Inc.

Manashi Mukherjee

Manashi Mukherjee

ABS Quality Evaluations

ISO 9001:2008

Certificate Of Conformance

ANNEX

Certificate No: 30523

Brenntag Mid-South, Inc.

At Below Facilities:

Facility: Packaging Plant
3200 Moon Station Road
Kennesaw, GA 30144
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
3900 Tucker Avenue
Louisville, KY 40216
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Distribution Center
395 Swancott Road
Madison, AL 35758
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Packaging Plant
2701 Channel Avenue
Memphis, TN 38113
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Distribution Center
8700NW 36th Avenue
Miami, FL 33147
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Distribution Center
355 Pottertown Road
Midway, TN 37809
U.S.A.

Activity: Distribution, Warehousing and Delivery



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

ABS Quality Evaluations

ISO 9001:2008

Certificate Of Conformance

ANNEX

Certificate No: 30523

Brenntag Mid-South, Inc.

At Below Facilities:

Facility: Packaging Plant
Plant Road PO Box 309
Nitro, WV 25143
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Distribution Center
2235 West Battlefield Road
Springfield, MO 65807
U.S.A.

Activity: Distribution, Warehousing and Delivery

Facility: Packaging Plant
250 Central Florida Parkway
Orlando, FL 32824
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
319 First Street North
St. Albans, WV 25177
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
126 Chouteau Avenue
St. Louis, MO 63102-2490
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Packaging Plant
139 East Soper Street
St. Louis, MO 63111
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

ABS Quality Evaluations

ISO 9001:2008

Certificate Of Conformance

ANNEX

Certificate No: 30523

Brenntag Mid-South, Inc.

At Below Facilities:

Facility: Packaging Plant
3520 Alamo Drive
Tampa, FL 33605
U.S.A.

Facility: Packaging Plant
1400 Lockport Road
Terre Haute, IN 47802
U.S.A.

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Activity: Tolling, Blending, Packaging, Distribution, Warehousing and Delivery

Facility: Distribution Center
1622 James P. Rodgers Drive
Valdosta, GA 31601
U.S.A.

Activity: Distribution, Warehousing and Delivery



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.



SAFETY DATA SHEET

1. Identification

Product identifier SODIUM HYPOCHLORITE
Other means of identification None.
Recommended use ALL PROPER AND LEGAL PURPOSES
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer
Company name Brenntag Mid-South, Inc.
Address 1405 Highway 136, West Henderson, KY 42420
Telephone 270-830-1222
E-mail Not available.
Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Acute toxicity, dermal Category 1
 Skin corrosion/irritation Category 1A
 Serious eye damage/eye irritation Category 1
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1
 Hazardous to the aquatic environment, long-term hazard Category 1
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Fatal in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off immediately all contaminated clothing and wash it before reuse. Collect spillage.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
SODIUM HYDROXIDE (NA(OH))		1310-73-2	12.52
CHLORINE		7782-50-5	10.6503
Other components below reportable levels			76.8297

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Discard any shoes or clothing items that cannot be decontaminated.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
CHLORINE (CAS 7782-50-5)	Ceiling	3 mg/m ³
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	PEL	1 ppm 2 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value
CHLORINE (CAS 7782-50-5)	STEL	1 ppm
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	TWA Ceiling	0.5 ppm 2 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
CHLORINE (CAS 7782-50-5)	Ceiling	1.45 mg/m ³
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	Ceiling	0.5 ppm 2 mg/m ³

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form	Liquid.
Color	YELLOWISH-GREEN
Odor	CHLORINE
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	262.59 °F (128.11 °C) estimated / 20 °F (-6.67 °C)
Initial boiling point and boiling range	476.57 °F (246.98 °C) estimated
Flash point	999.0 °F (537.2 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	829.31 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	17.77 lbs/gal estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	76.83 % estimated
Specific gravity	2.13 estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acids. Ammonia.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Fatal in contact with skin. Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Fatal in contact with skin.

Components	Species	Test Results
CHLORINE (CAS 7782-50-5)		
Acute		
Inhalation		
LC50	Mouse	137 ppm, 1 Hours

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components	Species	Test Results
CHLORINE (CAS 7782-50-5)		
Aquatic		
Fish	LC50 Atlantic silverside (<i>Menidia menidia</i>)	0.037 mg/l, 96 hours
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)		
Aquatic		
Crustacea	EC50 Water flea (<i>Ceriodaphnia dubia</i>)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50 Western mosquitofish (<i>Gambusia affinis</i>)	125 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Product #: 813540 From: BRENNTAG MID-SOUTH INC. To: Tuesday, July 28, 2015

Local disposal regulations Dispose in accordance with all applicable regulations.
Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN1791
UN proper shipping name HYPOCHLORITE SOLUTIONS (RQ = RQ)
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
ERG number 154
DOT information on packaging may be different from that listed.

DOT



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

CHLORINE (CAS 7782-50-5) Listed.

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

CHLORINE (CAS 7782-50-5) 10 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
CHLORINE	7782-50-5	10	100 lbs		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
CHLORINE	7782-50-5	10.6503

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

CHLORINE (CAS 7782-50-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

CHLORINE (CAS 7782-50-5)

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CHLORINE (CAS 7782-50-5)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Massachusetts RTK - Substance List

CHLORINE (CAS 7782-50-5)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

CHLORINE (CAS 7782-50-5)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Pennsylvania Worker and Community Right-to-Know Law

CHLORINE (CAS 7782-50-5)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Rhode Island RTK

CHLORINE (CAS 7782-50-5)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-06-2015
Version #	01
HMIS® ratings	Health: 4 Flammability: 0 Physical hazard: 0

Material name: SODIUM HYPOCHLORITE

813540 Version #: 01 Issue date: 05-06-2015

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NFPA ratings

Health: 4
Flammability: 0
Instability: 0

Disclaimer

BNA cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



SAFETY DATA SHEET

1. Identification

Product identifier HYDROCHLORIC ACID 20 BE NSF
Other means of identification None.
Recommended use ALL PROPER AND LEGAL PURPOSES
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer
Company name Brenntag Mid-South, Inc.
Address 1405 Highway 136, West
 Henderson, KY 42420
Telephone 270-830-1222
E-mail Not available.
Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Acute toxicity, oral Category 4
 Skin corrosion/irritation Category 1A
 Serious eye damage/eye irritation Category 1
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.
Precautionary statement
Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.
Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.
Storage Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
HYDROCHLORIC ACID		7647-01-0	31.5
Other components below reportable levels			68.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Material name: HYDROCHLORIC ACID 20 BE NSF

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4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m3
		5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	2 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m3
		5 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

COLORLESS TO SLIGHTLY YELLOW

Odor

Pungent

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

-63 °F (-52.78 °C)

Initial boiling point and boiling range

107.08 °F (41.71 °C) estimated

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

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Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	9.68 lbs/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	68.5 % estimated
Specific gravity	1.16

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Amines.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results
HYDROCHLORIC ACID (CAS 7647-01-0)		
Acute		
Dermal		
LD50	Mouse	1449 mg/kg
Inhalation		
LC50	Mouse	1108 ppm, 1 Hours
	Rat	3124 ppm, 1 Hours
Oral		
LD50	Rabbit	900 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

- Serious eye damage/eye irritation** Causes serious eye damage.
- Respiratory or skin sensitization**
 - Respiratory sensitization** Not a respiratory sensitizer.
 - Skin sensitization** This product is not expected to cause skin sensitization.
- Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

HYDROCHLORIC ACID (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

- Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.
- Specific target organ toxicity - single exposure** Not classified.
- Specific target organ toxicity - repeated exposure** Not classified.
- Aspiration hazard** Not an aspiration hazard.
- Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
HYDROCHLORIC ACID (CAS 7647-01-0)		
Aquatic		
Fish	LC50 Western mosquitofish (<i>Gambusia affinis</i>)	282 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

- Persistence and degradability** No data is available on the degradability of this product.
- Bioaccumulative potential** No data available.
- Mobility in soil** No data available.
- Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

- Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Local disposal regulations** Dispose in accordance with all applicable regulations.
- Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

- UN number** UN1789
- UN proper shipping name** HYDROCHLORIC ACID
- Transport hazard class(es)**
 - Class** 8
 - Subsidiary risk** -
 - Packing group** II
- Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

ERG number 157
 DOT information on packaging may be different from that listed.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

HYDROCHLORIC ACID (CAS 7647-01-0) Listed.

SARA 304 Emergency release notification

HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
HYDROCHLORIC ACID	7647-01-0	5000	500 lbs		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
HYDROCHLORIC ACID	7647-01-0	31.5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

HYDROCHLORIC ACID (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

HYDROCHLORIC ACID (CAS 7647-01-0)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

HYDROCHLORIC ACID (CAS 7647-01-0) 6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

HYDROCHLORIC ACID (CAS 7647-01-0) 20 %WV

DEA Exempt Chemical Mixtures Code Number

HYDROCHLORIC ACID (CAS 7647-01-0) 6545

Material name: HYDROCHLORIC ACID 20 BE NSF

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US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

HYDROCHLORIC ACID (CAS 7647-01-0)

US. Massachusetts RTK - Substance List

HYDROCHLORIC ACID (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act

HYDROCHLORIC ACID (CAS 7647-01-0)

US. Pennsylvania Worker and Community Right-to-Know Law

HYDROCHLORIC ACID (CAS 7647-01-0)

US. Rhode Island RTK

HYDROCHLORIC ACID (CAS 7647-01-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-05-2015
Revision date	07-27-2015
Version #	14
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 0 Instability: 0

Disclaimer While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

BRENNTAG**SAFETY DATA SHEET****1. Identification**

Product identifier FERRIC CHLORIDE 38-42% NSF
Other means of identification None.
Recommended use ALL PROPER AND LEGAL PURPOSES
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer
Company name Brenntag Mid-South, Inc.
Address 1405 Highway 136, West
Henderson, KY 42420
Telephone 270-830-1222
E-mail Not available.
Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Acute toxicity, oral Category 2
Skin corrosion/irritation Category 1A
Serious eye damage/eye irritation Category 1
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, long-term hazard Category 2
OSHA defined hazards Not classified.

Label elements

Signal word Danger
Hazard statement Fatal if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement
Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.
Response If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Collect spillage.
Storage Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information 1.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 1.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
IRON CHLORIDE (FECL3)		7705-08-0	40
HYDROCHLORIC ACID		7647-01-0	1.5
Other components below reportable levels			58.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p>
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

Material name: FERRIC CHLORIDE 38-42% NSF

273144 Version #: 05 Revision date: 07-16-2015 Issue date: 05-05-2015

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m ³
		5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	2 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m ³
		5 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Reddish-brown
Odor	SLIGHTLY PUNGENT
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-15 °F (-26.11 °C)
Initial boiling point and boiling range	362.52 °F (183.62 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.

Material name: FERRIC CHLORIDE 38-42% NSF

273144 Version #: 05 Revision date: 07-16-2015 Issue date: 05-05-2015

Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.27 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	11.26 lbs/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	58.5 % estimated
Specific gravity	1.35

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Fatal if swallowed. Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Fatal if swallowed.

Components	Species	Test Results
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HYDROCHLORIC ACID (CAS 7647-01-0)

Acute

Dermal

LD50	Mouse	1449 mg/kg
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Components	Species	Test Results
Inhalation		
LC50	Mouse	1108 ppm, 1 Hours
	Rat	3124 ppm, 1 Hours
Oral		
LD50	Rabbit	900 mg/kg
IRON CHLORIDE (FECL3) (CAS 7705-08-0)		
Acute		
LD50	Mouse	450 mg/kg
	Rat	28 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

HYDROCHLORIC ACID (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
HYDROCHLORIC ACID (CAS 7647-01-0)		
Aquatic		
Fish	LC50	Western mosquitofish (Gambusia affinis)
		282 mg/l, 96 hours
IRON CHLORIDE (FECL3) (CAS 7705-08-0)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
		9.6 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)
		20.26 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN2582
UN proper shipping name	FERRIC CHLORIDE, SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ERG number	154

DOT information on packaging may be different from that listed.

DOT



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

HYDROCHLORIC ACID (CAS 7647-01-0)	Listed.
IRON CHLORIDE (FECL3) (CAS 7705-08-0)	Listed.

SARA 304 Emergency release notification

HYDROCHLORIC ACID (CAS 7647-01-0)	5000 LBS
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
HYDROCHLORIC ACID	7647-01-0	5000	500 lbs		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
HYDROCHLORIC ACID	7647-01-0	1.5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

HYDROCHLORIC ACID (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

HYDROCHLORIC ACID (CAS 7647-01-0)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

HYDROCHLORIC ACID (CAS 7647-01-0) 6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

HYDROCHLORIC ACID (CAS 7647-01-0) 20 %WV

DEA Exempt Chemical Mixtures Code Number

HYDROCHLORIC ACID (CAS 7647-01-0) 6545

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

HYDROCHLORIC ACID (CAS 7647-01-0)

US. Massachusetts RTK - Substance List

HYDROCHLORIC ACID (CAS 7647-01-0)

IRON CHLORIDE (FECL3) (CAS 7705-08-0)

US. New Jersey Worker and Community Right-to-Know Act

HYDROCHLORIC ACID (CAS 7647-01-0)

IRON CHLORIDE (FECL3) (CAS 7705-08-0)

US. Pennsylvania Worker and Community Right-to-Know Law

HYDROCHLORIC ACID (CAS 7647-01-0)

IRON CHLORIDE (FECL3) (CAS 7705-08-0)

US. Rhode Island RTK

HYDROCHLORIC ACID (CAS 7647-01-0)

IRON CHLORIDE (FECL3) (CAS 7705-08-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

Material name: FERRIC CHLORIDE 38-42% NSF

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Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-05-2015
Revision date	07-16-2015
Version #	05
HMIS® ratings	Health: 4 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 4 Flammability: 0 Instability: 0

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Revision Information
 Hazard(s) identification: Hazard statement
 Hazard(s) identification: Response
 Hazard(s) identification: Supplemental information
 Handling and storage: Precautions for safe handling
 Toxicological information: Acute toxicity
 Toxicological information: Skin contact
 Regulatory information: US federal regulations



Material Safety Data Sheet



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY UNDERTAKING

Identification

Product Name Sodium Hexametaphosphate (SHMP)
Reference Number AST10053
Date June 2, 2009
Synonyms: Glass H, Hexaphos, Sodaphos, SHMP; glassy Sodium Phosphate; Sodium Polyphosphate, glassy; Metaphosphoric Acid, Sodium Salt; Sodium Acid Metaphosphate; Graham's Salt.

Use of the substance or preparation

Food Ingredient

Company Information:

ICL PERFORMANCE PRODUCTS LP
622 Emerson Road - Suite 500
St. Louis, Missouri 63141

Emergency telephone: In USA call CHEMTREC: 1 800 424 9300
 In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

<u>Substance</u>	<u>CAS No</u>	<u>EINECS No</u>	<u>%w/w</u>	<u>Risk Phrase</u>
Sodium Hexametaphosphate Polyphosphoric acids, sodium salts)	68915-31-1	272-808-3	100	R36/37/38

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EC Classification None
Safety phrase S26 S36

Human Health Effects

May cause skin, eye and respiratory tract irritation.

Environmental Effects

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Hexametaphosphate

Reference No.: AST10053

Page 2 of 6
June 2, 2009

On the basis of available information, this material is not expected to produce any significant environmental effects when recommended use instructions are followed.

4. FIRST-AID MEASURES

General

This product has low oral toxicity and is minimally irritating to the skin and eyes. Treatment is controlled removal of exposure and symptomatic and supportive care.

Eye contact

Rinse immediately with plenty of water. Get medical attention if irritation occurs and persists. The dry material may cause foreign body irritation in some individuals.

Skin contact

Wash with plenty of water. Prolonged contact with the dry material may cause drying or chapping of the skin.

Inhalation

Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation of the dust may cause coughing and sneezing.

Ingestion

Drink plenty of water. Never give anything by mouth to an unconscious person. No significant adverse health effects are expected if only small amount (less than a mouthful) are swallowed.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible. No special requirement.

Unsuitable extinguishing media

Non-combustible. No special requirement.

Exposure hazards

No special considerations.

Protective equipment

As a general precaution, firefighters, and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Hexametaphosphate

Reference No.: AST10053

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No special requirement.

Environmental precautions

Small quantities: Presents no environmental problems.

Large quantities: As general precaution, avoid discharge into the environment.

Methods for cleaning up

Sweep, scoop or vacuum and place into containers for disposal.

Flush area with water.

7. HANDLING AND STORAGE

Handling

Good industrial practice in housekeeping and personal hygiene should be followed.

Avoid contact with eyes and skin.

Wash hands immediately after handling.

Remove material from clothing.

Engineering measures

Prevention of eye and skin contact may be required under normal use conditions. However, severe agitation or dispersion into the work environment may require enclosure of the process and local exhaust ventilation at the source to prevent release into the air. If the work environment controls are not implemented, then personal protection for inhalation, skin and eye may be required.

Storage

Store in cool, dry place to maintain product performance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit

ACGIH TLV 10 mg/m³ (inhalable) 8-hr TWA, 3 mg/m³ (respirable) 8-hr TWA

OSHA PEL 15 mg/m³ (total dust) 8-hr TWA, 5 mg/m³ (respirable) 8-hr TWA

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use approved respiratory protective equipment as described in the U.S. OSHA 29 CFR 1910.134 or European Standard EN149.

Hand/skin protection

Wearing protective clothes is recommended; wash hand and contaminated skin thoroughly after handling.

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Hexametaphosphate

Reference No.: AST10053

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June 2, 2009

Eye protection

Wear appropriate protective eye glasses or chemical safety goggles as described in the U.S. OSHA 29 CFR 1910.133 or European Standard EN 166.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Chemical Formula:	Na ₂ O P ₂ O ₅
Form	powder, free flowing
Color	White
Odor	Odorless

Important health, safety and environmental information

pH (1% solution) SHMP:	7.0
long chain SHMP:	5.6-6.8
Specific gravity:	1.79 (20 °C / 4 °C)
Water solubility:	< 150 g/l (partly soluble)
Melting point:	628 °C or 1162 °F
Boiling point:	1500 °C or 2732 °F
Bulk density:	700 kg/m ³ (loose) 850 kg/m ³ (packed)

Other Information

Miscibility with water	< 150g/l
Flash point:	not applicable
Lower/upper explosion limits:	not applicable
Minimum ignition temperature:	not applicable
Particulate size and distribution	> 45% -100 mesh USSS

10. STABILITY AND REACTIVITY

Solutions of this product will hydrolyze to form ortho-phosphate and other shorter chain phosphates. Dissolution is impacted by temperature and pH of the system.

Conditions to avoid

Excessive moisture.

Materials to avoid

No special material to avoid.

Hazardous decomposition products

Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Laboratory data

Oral LD ₅₀ (rat):	6600 mg/kg.
Dermal LD ₅₀ (rabbit):	> 7940 mg/kg.
Eye Irritation (rabbit):	1.3/110.0; slightly irritating

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Hexametaphosphate

Reference No.: AST10053

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June 2, 2009

Skin irritation (rabbit): 0.0/8.0, nonirritating

Rats fed this material in their diet for one month showed decreased growth, increased kidney, lung and spleen weight, and kidney damage. Rats fed this material for two years also showed decreased weight gain, increased kidney weight, and kidney changes. No increase in tumors was reported. No adverse effects in reproduction capacity were reported in a multigenerational study using rats fed this material.

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

12. ECOLOGICAL INFORMATION

Environmental Toxicity

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity

48-hr EC ₅₀ Daphnia magna	> 485 mg/l
96-hr LC ₅₀ Rainbow trout	> 1000 mg/l
96-hr LC ₅₀ Medina & Mysid shrimp	> 1000 mg/l

Environmental Fate

Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

13. DISPOSAL CONSIDERATIONS

European waste catalog number

Unknown

Disposal Considerations

This material when discarded is not a hazardous waste as that term is defined by the U.S. Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be land filled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

Road/Rail, Sea and Air

IMDG/JN	Not classified
ICAO/IATA	Not classified
RID/ADR	Unknown
Canadian TDG	Not classified
U.S. DOT	Not classified

15. REGULATORY INFORMATION

EC label

ICL Performance Products LP Material Safety Data Sheet

Material: Sodium Hexametaphosphate

Reference No.: AST10053

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Hazard symbol: none
Risk phrase R36/37/38 – irritating to eyes, respiratory system and skin.
Safety phrase S26 – In case of contact with eyes, immediately flush with plenty of water and seek medical attention
S36 – Wear suitable protective clothing

Chemical Inventory

USA TSCA:	Listed	Australia	Listed
Canada DSL:	Listed	Korea	Listed
EC:	Listed	Philippines	Listed
Japan	Listed	China	Listed

Additional Information

WHMIS Classification Not Controlled

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Immediate, Delayed
Section 302 Extremely Hazardous Substances: None
Section 313 Toxic Chemical(s): None

CERCLA Reportable Quantity: Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

16. OTHER INFORMATION

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	F F = Safety glasses, gloves, synthetic apron, dust respirator

Reason for revision: Revised section 15. Supersedes MSDS dated: May 1, 2006
Drafted in accordance with ECC Dir 2001/58/EC

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Product name
KEMIRA PIX-317

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture

Waste water treatment chemical, Water treatment chemical, odour control

Recommended restrictions on use

Supplier's details

Kemira Water Solutions, Inc.
1000 Parkwood Circle, Suite 500
30339 Atlanta USA
Telephone+18635335990, Telefax. +18635337077
ProductSafety.US.Lakeland@kemira.com

HEAD OFFICE
Kemira Oyj
P.O. Box 330
00101 HELSINKI
FINLAND
Telephone +358108611 Telefax +358108621124

Emergency telephone number

CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Corrosive to metals; Category 1; May be corrosive to metals.;
Acute toxicity; Category 4; Harmful if swallowed.;
Skin irritation; Category 2; Causes skin irritation.;
Serious eye damage; Category 1; Causes serious eye damage.;

GHS-Labeling

KEMIRA PIX-317

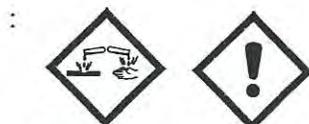
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Hazard pictograms



Signal word

: Danger

Hazard statements

Hazard statements:

H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.

Precautionary statements

Prevention:

P234 Keep only in original container.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash face, hands and any exposed skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P390 Absorb spillage to prevent material damage.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 P330 Rinse mouth.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P321 Specific treatment (see supplemental first aid instructions on this label).
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/ physician.

Storage:

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P405

Store locked up.

P406

Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501

Dispose of contents/container as special waste in compliance with local and national regulations.

Other hazards which do not result in classification

Advice; Causes eye, skin, and respiratory tract irritation. Gastrointestinal irritation
Inhalation; May cause respiratory tract irritation.

Skin; Causes moderate skin irritation.

Eyes; Causes moderate-severe eye irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances /Mixtures

Hazardous components

Chemical Name	CAS-No.	Concentration[%]
Diiron tris(sulphate)	10028-22-5	60 - 80 %

Further information

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

This product contains WHMIS regulated (hazardous) components.

4. FIRST AID MEASURES

Description of first aid measures

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Inhalation

If breathing has stopped, apply artificial respiration. If breathing is difficult, remove to fresh air and provide oxygen. When symptoms persist or in all cases of doubt seek medical advice.

Skin contact

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an ophthalmologist if necessary.

Ingestion

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

5. FIREFIGHTING MEASURES

Suitable extinguishing media

The product is not combustible., Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Irritant and toxic fumes are formed in burning.

Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use NIOSH/MSHA approved respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Stop the leakage if possible.

Environmental precautions

Prevent product from entering the environment.

Restrict the spread of the spillage by using inert absorbent material (sand, gravel). Cover the drains. Must be disposed of in accordance with local and national regulations.

Methods and materials for containment and cleaning up

Clean-up methods - small spillage

Dilute residues with water and then neutralize with lime or limestone powder to a solid consistency. Shovel or sweep up. Must be disposed of in accordance with local and national regulations.

Clean-up methods - large spillage

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Remove spill using a vacuum truck. Dilute residues with water and then neutralize with lime or limestone powder to a solid consistency. Shovel or sweep up remaining material. Must be disposed of in accordance with local and national regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

Storage tanks, containers, piping, and pumps should be made of stainless steel, FRP, or plastic.

Materials to avoid:

Carbon steel, brass, Nylon

mineral acids, Bases, Alkaline materials

Storage stability:

Storage period 12 Months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Form of exposure	Control parameters	Update	Basis
Sulphuric acid	7664-93-9	TWA	Thoracic fraction	0.2 mg/m ³	2007-01-01	ACGIH
		TWA		1 mg/m ³	2005-09-01	NIOSH REL
Diiron tris(sulphate)	10028-22-5			1 mg/m ³		
				1 mg/m ³		
		TWA		0.1 mg/m ³		

Appropriate engineering controls

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Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with skin, eyes and clothing. Wash hands before eating, drinking, or smoking.

Individual protection measures, such as personal protective equipment

Respiratory protection

When there is a potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Hand protection

Chemical resistant gloves.

Skin and body protection

Wear suitable protective equipment.

Eye protection

Wear eye protection/ face protection. Tightly fitting safety goggles or face-shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid,
Colour	red brown
Odour	acidic
pH	< 2.0
Freezing point :	-20 °C -4 °F
Initial boiling point and boiling range	Boiling point/boiling range 105 - 110 °C Boiling point/boiling range 220 - 230 °F
Flash point	non flammable
Evaporation rate	similar to water
Density	ca. 1.60 g/cm ³
Solubility(ies): Water solubility	soluble

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Volatile organic content (VOC)

Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of hazardous reactions

Hazardous reactions:

Hazardous polymerisation does not occur.

Conditions to avoid

Conditions to avoid:

Stable
Avoid extreme temperatures.

Incompatible materials

Materials to avoid:

Carbon steel
brass
Nylon

mineral acids
Bases
Alkaline materials

Hazardous decomposition products

Hazardous decomposition products:

Thermal decomposition products:
Sulphur oxides
Oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity

Sulfuric acid:

/Rat/2,140 mg/kg/LD50

Diiron tris(sulphate):

/OECD Test Guideline 423Remarks: Calculated as Fe

/Rat/220 mg/kg/LD50

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Acute inhalation toxicity

Sulfuric acid:

LC50/Rat/4 h/0.375 mg/l

Remarks: aerosol

Conclusion: Although the LC50 values from the various inhalation toxicity studies performed with sulphuric acid theoretically trigger classification for Acute inhalation toxicity, classification is not proposed. The effects of sulphuric acid following inhalation are entirely due to local irritation of the respiratory tract: there is no evidence for the systemic toxicity of sulphuric acid in any study, as effects are limited to the site of contact. Classification for acute inhalation toxicity is not considered to be appropriate.

Diiron tris(sulphate):

LC50

Remarks: No data available, Not applicable

Acute dermal toxicity

Diiron tris(sulphate):

LD50/Rat/>

/3,154 mg/kg/OECD Test Guideline 402

Remarks: Read-across (Analogy), CAS-No., 7758-94-3

Diiron tris(sulphate):

LD50/Rat/>

/881 mg/kg/OECD Test Guideline 402

Remarks: Calculated as Fe

Skin corrosion/irritation

Sulfuric acid:

Result: Corrosive

Conclusion: Causes severe burns.

Diiron tris(sulphate):

Rabbit

Result: No skin irritation

/OECD Test Guideline 404

Conclusion: Moistened solid is expected to be irritant as a consequence of low pH.

Serious eye damage/eye irritation

Sulfuric acid:

Result: Corrosive

Conclusion: Risk of serious damage to eyes.

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	Diiron tris(sulphate): Rabbit Result: Causes serious eye damage. /OECD Test Guideline 405 Remarks: Read-across (Analogy), 7758-94-3, dry substance
Respiratory or skin sensitisation	
Skin sensitisation	Sulfuric acid: Conclusion: Not sensitizing. Diiron tris(sulphate): Conclusion: According to experience sensitization is not expected.
Germ cell mutagenicity	
Genotoxicity in vivo	Diiron tris(sulphate): Result: negative
Carcinogenicity	
Carcinogenicity	Diiron tris(sulphate): /Rat/Oral/2 years Remarks: Information given is based on data obtained from similar substances. Not believed to be a carcinogen. Long-term test
Reproductive toxicity	
Toxicity for reproduction	Sulfuric acid: Developmental toxicity test/Rabbit/0.020 mg/l Conclusion: Did not show teratogenic effects in animal experiments. Diiron tris(sulphate): Reproductive effects/Rat/>/500 mg/kg Remarks: Read-across (Analogy) Diiron tris(sulphate): Developmental toxicity test/Rat/>/1,000 mg/kg Remarks: Read-across (Analogy) Conclusion: In animal studies, did not interfere with reproduction.

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Teratogenicity

Diiron tris(sulphate):

Rat/Oral/>/1,000 mg/kg

Conclusion: Did not show teratogenic effects in animal experiments., Information given is based on data obtained from similar substances.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

Sulfuric acid:

LC50/96 h/Lepomis macrochirus (bluegill sunfish)/static test: 16 - 28 mg/l fresh water

EC50/48 h/Daphnia magna (Water flea)/static test/OECD Test Guideline 202: > 100 mg/l fresh water

EC50/72 h/Desmodesmus subspicatus (green algae)/static test/OECD Test Guideline 201: > 100 mg/l
Remarks: May be harmful to aquatic organisms because of the low pH value.

Diiron tris(sulphate):

LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 100 mg/l

NOEC/90 d/Oncorhynchus kisutch (Coho salmon): > 1 mg/l

EC50/48 h/Daphnia (water flea): 82.8 mg/l

NOEC/21 d/Daphnia magna (Water flea): > 1 mg/l

The compound is considered to have no long term effects in aquatic systems due to the rapid formation of insoluble hydroxides.

Toxicity to other organisms

Sulfuric acid:

NOEC/37-d/active sludge/static test: 26 g/l fresh water

NOEC/30 d/active sludge/static test: > 30 g/l fresh water

Persistence and degradability

Biological degradability:

Sulfuric acid:

The methods for determining biodegradability are not applicable to inorganic substances.

Diiron tris(sulphate):

The methods for determining the biological degradability are not applicable to inorganic substances.

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Bioaccumulative potential

Sulfuric acid:

Does not bioaccumulate.

Diiron tris(sulphate):

Does not bioaccumulate.

Partition coefficient: n-octanol/water: Not applicable, inorganic compound

Mobility in soil

Water solubility: soluble

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Product	Must be disposed of in accordance with local and national regulations.
Contaminated packaging	EPA Hazardous Waste - D002 Packages that cannot be cleaned must be disposed of the same way as the unused product.

14. TRANSPORT INFORMATION

UN number 3264

Land transport

DOT:

Description of the goods:	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Ferric sulfate)
Proper shipping name	sulfate)
Class:	8
Packaging group:	III
DOT-Labels	8
Reportable quantity	Ferric sulfate

Sea transport

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IMDG:

Description of the goods:
UN proper shipping name

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (FERRIC SULFATE)

Class:

8

Packaging group:

III

IMDG-Labels:

8

Air transport

ICAO/IATA:

Description of the goods:

UN proper shipping name

UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Ferric sulfate)

Class:

8

Packaging group:

III

ICAO-Labels:

8

Special precautions for user

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 311 Categories

Immediate (Acute) Health Effects: Yes;

Delayed (Chronic) Health Effects: No;

Fire Hazard: No;

Sudden Release Of Pressure Hazard: No;

Reactivity Hazard: No;

SARA 313 - Specific Toxic Chemical Listings

Sulfuric acid (7664-93-9)

OSHA a. United States Occupational Safety and Health Administration substances, 29 CFR 1910.1000, Sub Part Z.

CERCLA Hazardous substance (Reportable Quantities)

CERCLA Hazardous substance (Reportable Quantities)

Diiron tris(sulphate) (10028-22-5)

1,000 lb

Sulfuric acid (7664-93-9)

1,000 lb

WHMIS Classification

E Corrosive Material

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Diiron tris(sulphate) (10028-22-5)

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

None Present ()

Remarks: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulations : None

Notification status

- : All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
- : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
- : All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).
- : All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
- : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
- : All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
- : All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
- : All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
- : All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory (NZIoC).

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16. OTHER INFORMATION

HMIS Rating

Health: 2

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.