

PROPOSAL FORM
Mid-Michigan Drinking Water Consortium Bulk Chemicals

Note: This form may be completed using MS Word®

Provide the following business and contact information:

Legal Name: Key Chemical Inc		Federal ID or Social Security Number: 90-0053161
Address: 9503 Dovewood Place		State of Incorporation Delaware
City: Waxhaw	State & Zip: NC 28173	Primary E-Mail: bids@keychemicalinc.com
Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> LLC <input type="checkbox"/> LLP <input type="checkbox"/> Sole Proprietor <input type="checkbox"/> Partnership <input type="checkbox"/> S-Corporation <input type="checkbox"/> Other (Explain)		
Office Phone: 704-843-9873	Alternate Office Phone:	Office Fax: 704-973-9281
Primary Contact: Sara Cauthen	Contact Phone: 704-843-9873	Contact Fax: 704-973-9281
Contact Mobile: 803-577-8287	Contact E-Mail:	Website URL:

Provide responses to the following questions:

How many years has your firm been in business under the present ownership?	13 Years
Have you done business with the Board of Water and Light? If so, furnish specifics.	Yes, 2014 Joint Chemical Contract
Have you done business with the City of Lansing? If so, furnish specifics.	NO
Have you ever defaulted on a contract or been involved in litigation with the Board of Water and Light or the City of Lansing? If so, furnish specifics.	NO
Have you ever defaulted on a contract or been involved in litigation or pending litigation or claims with any other client in the past five years? If so, furnish specifics.	NO
List any relationships between your firm's staff and any current BWL employee.	N/A
Specify your background, training, experience, credentials and other factors which qualify you to perform the work described in the Scope of Work included in this Request for Proposal.	Please see attached company information
List at least three (3) references for similar work you have performed for other clients. Include Client name, contact name, title and phone number.	Please see attached list of references
List subcontractors that you plan to use on this project.	Only dedicated freight companies
Indicate any exceptions to the enclosed General Requirements.	N/A
Include any additional information you may deem helpful in evaluating your proposal.	N/A

SWORN AND NOTARIZED AFFIDAVIT OF COMPLIANCE

IRAN ECONOMIC SANCTIONS ACT

Michigan Public Act No. 517 of 2012

All bidders must submit the following certification statement in compliance with Public Act No. 517 of 2012 (the "Iran Economic Sanctions Act") and attach this form to the bid. **The Lansing Board of Water & Light shall not accept any bid that does not include this sworn and notarized certification of statement.**

The undersigned, the owner or authorized officer of Key Chemical Inc. (the Bidder), pursuant to the compliance certification requirement provided in the Lansing Board of Water & Light Request for Proposal, hereby certifies, represents and warrants that the Bidder (including its officers, directors and employees) is not an "Iran linked business" within the meaning of the Iran Economic Sanctions Act, and that in the event the Bidder is awarded a contract as a result of the aforementioned Request for Proposal, the Bidder will not become an "Iran linked business" at any time during the course of performing the work or any services under the contract.

The Bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification is made, whichever is greater, the cost of the Lansing Board of Water & Light's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a Request for Proposal for three (3) years from the date it is determined that the person has submitted the false certification.

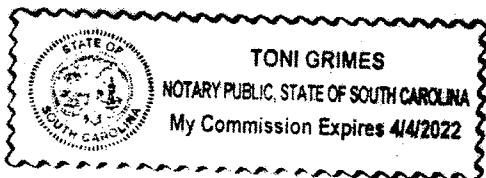
BIDDER

Key chemical Inc.
By: Sara Coeth
Its: Bid Coordinator
Date: 3/16/15

STATE OF South Carolina

COUNTY OF York

This instrument was acknowledged before me on the 16th day of March 2015, by Toni Grimes



[Signature]
Notary Public
York County, SC
My Commission Expires: 4/4/2022
Acting in the County of: York

PROPOSAL FORM
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The undersigned Bidder hereby acknowledges receipt of the following addenda:

Addendum No.	Date	Enter addenda numbers and received dates if applicable
1	3/3/15	
2	3/6/15	

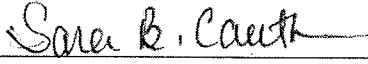
Provide pricing:

Activity	Unit Pricing
Pebble Quick Lime Chemical: Demurrage:	\$ <u> No Bid </u> / ton \$ <u> No Bid </u> / hour *first 4 hours free
Sodium Hypochlorite Chemical: Demurrage:	\$ <u> No Bid </u> / ton \$ <u> No Bid </u> / hour *first 4 hours free
Hydrofluosilic Acid Chemical in minimum 40,000 lbs. shipments: Chemical in minimum 30,000 lbs. shipments: Chemical split between Dye and Wise Plants minimum 40,000 lbs. shipments: Demurrage:	\$ <u>413.24</u> / ton \$ <u>428.14</u> / ton \$ <u>420.95</u> / ton \$ <u>60.00</u> / hour *first 4 hours free
Ferric Chloride Dry Chemical: Liquid Chemical: Demurrage:	\$ <u> No Bid </u> / ton \$ <u> No Bid </u> / ton \$ <u> No Bid </u> / hour *first 4 hours free

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The undersigned Bidder states that this proposal is made in conformity with the Proposal Documents and agrees that, in the event of any discrepancies or differences between any conditions of their proposal and the Proposal Documents, the provisions of the latter shall prevail. No verbal or written agreements or understandings considered or entered into prior to signing of a contract in the form of a purchase order, shall be binding after the signing of the contract unless incorporated in the contract.

The undersigned Bidder certifies that this proposal is made in good faith, without collusion or connection with any other person or persons submitting proposals for the work.

Company Name: Key Chemical Inc.
Signature: 
Name: Sara B Cauthen
Title: Bid Coordinator
Date: March 16, 2015

END OF PROPOSAL FORM



ADDENDUM ACKNOWLEDGEMENT

The undersigned Bidder acknowledges receipt of **Addendum No. 01**, dated 03/03/2015, to Request for Proposal for Mid-Michigan Drinking Water Consortium Bulk Chemicals, and certifies that it has considered same in formulating its proposal.

Name of Bidder: Key Chemical Inc.

Address of Bidder: 9503 Dovewood Place
Wayhew NC 28173

Acknowledged By: Sara Cauthen
Signature

Sara Cauthen
Name

Bid Coordinator
Title

March 16, 2015
Date



ADDENDUM ACKNOWLEDGEMENT

The undersigned Bidder acknowledges receipt of **Addendum No. 02**, dated 03/06/2015, to Request for Proposal for Mid-Michigan Drinking Water Consortium Bulk Chemicals, and certifies that it has considered same in formulating its proposal.

Name of Bidder:

Key Chemical Inc.

Address of Bidder:

9503 Dorewood Place
Wayhawn NC 28173

Acknowledged By:

Sara Cauthen
Signature

Sara Cauthen
Name

Bid Coordinator
Title

March 16, 2015
Date



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9503 Dovewood Place • Waxhaw, NC 28173
Phone: (704) 843-9873 • Fax: (704) 973-9281

Hydrofluorosilicic Acid 23%

Affidavit of Compliance with NSF / AWWA Current Standard

To Whom It May Concern:

This letter certifies that the Hydrofluorosilicic Acid furnished by Key Chemical will meet or exceed all of your required specifications (AWWA B703, NSF 60).

Attached is a UL (an ANSI Accredited Agency) certification attesting that our product meets current AWWA/NSF standards.

Please note our material is manufactured in the USA.

Key Chemical is a strong supplier to the water treatment industry. We look forward to being a reliable supplier bringing you quality products when you need them.

Best Regards,

A handwritten signature in black ink, appearing to read "Steven V. Norris", with a long horizontal flourish extending to the right.

Steven V. Norris
President

Certificate of Compliance

Certificate Number 20110118 – MH47618-25246
Report Reference MH47618, 2010 February 01
Issue Date 2011 January 18

Page 1 of 1



**Underwriters
Laboratories Inc.®**

Issued to: **KEY CHEMICAL INC**
9503 DOVEWOOD PL
WAXHAW, NC 28173 USA

*This is to certify that
representative samples of*

Drinking Water Treatment Chemicals

Model Descriptions: Hydrofluosilicic Acid 20-25% (Fluosilicic Acid).


*Have been investigated by Underwriters Laboratories Inc.® in accordance
with the Standard(s) indicated on this Certificate.*

Standard(s) for Safety: The basic standard used to investigate products in this category is ANSI/NSF 60-2009, "Drinking Water Treatment Chemicals - Health Effects."

Additional Information: Marking:
Bakersville, NC

<u>Product</u>	<u>Maximum Use Level, mg/L</u>
Hydrofluosilicic Acid 20-25%	6.0

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle symbol:  with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and, the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product

William R. Cramer
Director, North American Certification Programs



MATERIAL SAFETY DATA SHEET FLUOROSILICIC ACID

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Key Chemical, Inc
9503 Dovewood Place
Waxhaw, NC 28173

EMERGENCY TELEPHONE NUMBER:
Chemtel 800-255-3924

TRADE NAME:
Hydrofluorosilicic Acid
CHEMICAL NAME:
Fluorosilicic Acid

IDENTIFICATION NUMBER:
UN 1778
SYNONYMS:
Fluorosilicic Acid, HFS

2. INGREDIENTS

Component	CAS #	Percent	ACGIH TLV	OSHA PEL	Units
Water	7732-18-5	70-80	Not Est.	Not Est.	Not Est.
Fluorosilicic Acid	16961-83-1	20-30	2.5 (As F-)	2.5 (As F-)	mg/M ³
Hydrogen Fluoride	7664-39-3	0-1	3 (C)	3 6 (STEL)	ppm ppm

ACGIH TLVs are based on 1997 values. OSHA PELs are based on the more stringent 1987 values, which were subsequently vacated by the courts. All values are 8-hour time-weighted averages unless otherwise noted. (C) represents a ceiling exposure limit that should not be exceeded at any time. (STEL) represents Short Term Exposure Limit - normally 15 minutes.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Product is a clear liquid with a pungent, sour, penetrating odor. Liquid may cause severe irritation and chemical burns of the eyes, skin, mucous membranes, and respiratory tract. Development of hydrofluoric acid burns may take up to 12 hours after exposure. Wear appropriate personal protective equipment. Keep individuals not involved in the clean-up out of the area. Prevent spread of release by diking with earth, sand, or other non-reactive materials. Prevent entry into storm or sanitary sewers, ground water, or soil. Releases may be reportable to local, state, and/or federal authorities. Absorb releases material with a sorbent suitable for acidic materials or pump into appropriate containers for disposal. After clean up, slowly neutralize residual materials with a weakly basic media, preferably ground or powdered limestone. All materials collected during clean-up operations may be contaminated and should be treated as hazardous unless specific testing, including TCLP, shows the collected material to be non-hazardous.

4. HAZARDS IDENTIFICATION - Continued

POTENTIAL HEALTH EFFECTS:

Eye:	May cause severe irritation and chemical burns of the eyes. Burns may not become evident for up to 12 hours after exposure.
Skin Contact:	May cause severe irritation and chemical burns of the skin. Burns may not become evident for up to 12 hours after exposure.
Skin Absorption:	Not known to be absorbed through the intact skin.
Ingestion:	MAY BE FATAL IF LARGE AMOUNTS ARE INGESTED. May cause abdominal pain diarrhea, vomiting, excess salivation, and painful spasms of the limbs.
Inhalation:	May cause severe irritation and chemical burns of the nose, throat, mucous membranes and respiratory tract.

Chronic and Carcinogenicity: Prolonged exposure may cause dermatitis. The product has not been identified as a carcinogen or potential carcinogen. Pre-existing skin, lung, central nervous system, and kidney conditions may be aggravated by exposure to the components of the product. Exposure to fluorides at concentrations well above the TLV or PEL may cause a chronic bony fluorosis. See Section 11.

5. FIRST AID MEASURES

Inhalation:	Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.
Eyes:	Flush with tepid water for at least 20 minutes holding the eyelids wide open. Seek medical attention immediately.
Skin:	Wash thoroughly with mild soap and water. Seek medical attention immediately and advise medical personnel of possible hydrogen fluoride exposure. Remove any contaminated clothing and discard properly.
Ingestion:	SEEK MEDICAL ATTENTION IMMEDIATELY. Give water or milk to dilute. Do not induce vomiting unless directed by licensed medical personnel. Advise medical personnel of possible fluoride and hydrogen fluoride exposure. Never give anything by mouth to an unconscious individual.

6. FIRE FIGHTING MEASURES

Flash Point: NA LEL: NA UEL: NA Auto Ign. Temp.: NA

Product will not ignite. Material in or near fires should be cooled with a water spray or fog if compatible with fire fighting techniques for the other materials involved in the fire. A self-contained breathing apparatus operating in the positive pressure mode and full fire fighting gear should be worn for combating fires. Water used to fight fires should be contained. See Section 12.

7. ACCIDENTAL RELEASE MEASURES

Prevent spread of release by diking with earth, sand, or other non-reactive materials. Absorb releases with a sorbent suitable for acidic materials or pump into appropriate containers for disposal. After initial clean up, slowly neutralize the release area with a weakly basic media, preferably ground or powdered limestone. Appropriate personal protective equipment cited in Section 8 should be worn during all clean-up operations. All materials collected during clean-up operations may be contaminated and should be treated as hazardous unless specific testing, including TCLP, shows the collected material to be non-hazardous. Releases may be reportable to local, state, and/or federal authorities. See Sections 12 & 15.

7. HANDLING AND STORAGE

Do not store in metal containers or with or near incompatible materials cited in Section 10. Store in tightly closed containers out of contact with the elements and in a well-ventilated area. Appropriate personal protective equipment cited in Section 8 should be worn during handling. Good housekeeping and engineering practices should be employed to prevent spills of the product in the workplace. Any spills should be cleaned up as soon as possible to minimize the possibility of contact. See Section 6. Wash hands and face thoroughly before eating, drinking or smoking.

8. EXPOSURE CONTROL - PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation should be provided to maintain exposures below the limits cited in Section 2. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the ACGIH Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI, 48910. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer.

Respiratory Protection: If exposures may exceed the limits cited in Section 2, use, as a minimum, a NIOSH approved 1/2 face-piece respirator with cartridges approved for acid gases, hydrogen fluoride. If exposures exceed 10 times the limits cited in Section 2, consult your respiratory protection equipment supplier or a professional industrial hygienist for selection of the proper equipment. The evaluation of the need for respiratory protection should be made by a professional industrial hygienist.

Eye Protection: Chemical protective goggles are recommended where there is the possibility of eye contact with the product. Safety glasses with side-shields are recommended for all other operations.

Protective Gloves: Polymeric gloves are recommended to prevent possible chemical burns. Butyl rubber is recommended.

General: A butyl coated apron or other body covering is recommended where regular work clothing may become contaminated with the product. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND PHYSICAL STATE: Clear to Yellow Liquid with Pungent Odor	EVAPORATION RATE (BUTYL ACETATE = 1): NA
VAPOR DENSITY (AIR =1): N/A	FREEZE POINT: 4° F
pH: 1.5 - 2 (1-10% concentration)	BOILING POINT: 225° F
SPECIFIC GRAVITY/BULK DENSITY: 1.21 (water = 1)	% Volatile: NA
% SOLUBILITY (H₂O): 100%	Bulk Density: 9.7-10.2 lb. /gallon at 20-25% sol. @75°

10. STABILITY AND REACTIVITY

Stability & Polymerization: Product is stable. Hazardous polymerization will not occur.

Incompatibility (Conditions to Avoid): Do not store in metal or glass containers, with or near strong acids, reducing agents, organics, glass, concrete, leather, natural rubber, or metals. Fluorosilicic acid can react with many metals to liberate hydrogen gas which is highly flammable. May react with strong mineral acids to liberate hydrogen fluoride or hydrofluoric acid which are highly toxic and corrosive.

Hazardous Decomposition Products: Toxic and corrosive fluoride gases.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

The acute lethal oral toxicity in rats for fluorosilicic acid is approximately 35 mg per kilogram of body weight. Based on the fluorosilicic acid content, this is equivalent to approximately 9 grams for the average human. Hydrofluoric acid burns from dilute solutions may not become evident for up to 12 hours after exposure. They are characterized by intense pain and burning at the site of contact. Appropriate medical treatment to neutralize the causative agent is the only way to alleviate the pain and burning. Chronic bony fluorosis is a very rare condition and is not expected to develop if exposures are maintained below mandated or recommended exposure limits.

12. ECOLOGICAL INFORMATION

Fluorides can be highly toxic to aquatic and terrestrial flora and fauna. Care should be taken to prevent the product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Product is defined as a Corrosive Hazardous Waste (D002). It should be disposed of in accordance with all applicable local, state, and/or federal regulations. If used or waste product is disposed of, testing, including TCLP, should be conducted to determine hazard characteristics. Empty containers will contain product residues. Do not use for any purpose other than to store product.

14. TRANSPORTATION INFORMATION

DOT Shipping Description:	Fluorosilicic Acid, 8, UN 1778, PGII
Label:	Corrosive
DOT ERG Number:	154
Restrictions:	Passenger Aircraft = 1L; Cargo Only Aircraft = 30 L

15. REGULATORY INFORMATION

The hydrogen fluoride component of the product is reportable under Section 313 of the Superfund Amendments and Reauthorization Act of 1986.

OSHA Hazard Communication Categories: Irritant, Lung Hazard, Skin Hazard, Kidney Hazard

SARA Hazard Categories: Acute Hazard, Chronic Hazard

The Reportable Quantity (RQ) for releases of hydrogen fluoride to the environment is 100 pounds.

Hydrogen fluoride has been listed as a Special Health Hazard Substance by the State of New Jersey.

All components of the product are included in the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

Not Est. = Not Established; NA = Not Applicable; ND = Not Determined

Preparation /Revision Date: 07/02/2013

Reason for Revision: Review information and convert to ANSI Z400.1 format

IMPORTANT SAFETY NOTICE

The information contained in the Material Safety Data Sheet relates only to the specific material(s) described herein and does not relate to use in combination with any other material or substance or in any process. We believe that the information contained herein is current as of the date of issue of this Material Safety Data Sheet. *Because the use of this information and these opinions and the conditions of use of this product are not within the control of Key Chemical, it is the user's obligation to determine the conditions of safe use of the product.*

Users of this product should study this Material Safety Data Sheet and become aware of the product hazards and safety information before using the product. Users should also notify their employees, agents, and contractors regarding information contained in this Material Safety Data Sheet and any product hazards and safety information in order to provide safe use of this product.



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HYDROFLUOSILICIC ACID

SALES SPECIFICATION

Chemical Analysis

	Specification	Typical
Assay (H ₂ SiF ₆)	Minimum 23.00%	23.0%
Fluorine (F)	18.22% ± 1.5%	19.0%
Heavy Metals such as Lead (Pb)	0.02% max	0.0002%
Hydrofluoric Acid (HF)	Less than 1.00%	nil

Physical Properties

Description	Typically water white meeting both the AWWA Standard B-703-00 and the NSF/ANSI Standard 60 for Fluorosilicic Acid.
Color	Typically water white solution with a less than 100 units (APHA) in accordance with method 2120B, visual comparison method.
Specific Gravity	1.2 (H ₂ O = 1) for 23% @ 70°F
Boiling Point for 23%	222.5°F
Freezing Point for 23%	4°F (-15.5°C)
Molecular Weight	144.8
Weight per Gallon for 23%	10.2 lbs / gal

The information herein is believed to be reliable and is to assist customers in determining whether our products are suitable for their applications. However, no warranty, express or implied is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness nor of protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages. We shall not be liable for damages to person or property resulting from its use. Consult the Material Safety Data Sheet for additional information.

Rev 01/2014



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Key Chemical, Inc. Company Information & Qualifications

Key Chemical is a supplier of commodity and specialty chemicals used in the water and wastewater treatment industry. We supply railcars, truckloads, drums and bags of many chemicals, such as Hydrofluosilicic Acid, Caustic Soda, Alum, Sodium Bisulfite, Potassium Permanganate, etc. We furnish distributors and end users that are looking for competitive pricing from a reliable quality-driven supplier.

Key Chemical, which began selling liquid Caustic Soda in the Southeastern U.S. in 2002, has expanded its terminal network to cover the continental United States. We now have the ability to ship caustic soda and other products from Baltimore MD, Wilmington NC, Savannah GA, Jacksonville FL, Houston TX, Los Angeles CA, Chicago IL and several other inland terminals as well.

We Care

At Key Chemical, we realize that you have a choice. We would like to earn your business by exemplifying the values below.

Quality

Our quality assurance program mandates that you receive quality product, impeccable customer service, excellent packaging and aggressive pricing every time you order from Key Chemical.

Philosophy

Key Chemical realizes that companies don't do business with companies; **people do business with people**. We recognize that truth, and we hold character as the primary trait of our people. Key Chemical's leadership represents years of industry expertise working in executive positions in some of the most recognizable names in the world. When you partner with Key Chemical, you get core values that start with executive management and infuse through the entire organization.



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Values

These values have become the philosophy of Key Chemical:

- **INTEGRITY** in every aspect of our business—people, practices, and principles
- **PASSION** for performance, customers and the betterment of fellow professionals
- **COMMITMENT** to quality, self-improvement and personal excellence
- **ACCOUNTABILITY** for quality of work

Products that We Supply:

Key Chemical Inc. supplies railcars, truckloads, drums and bags of many chemicals.

- Activated Carbon
- Aluminum Sulfate (Alum)
- Antifoamers/Defoamers
- Ascorbic Acid / Erythorbic Acid
- Caustic Soda (Sodium Hydroxide)
- Corrosion Inhibitors
- Algaecide
- Ferric Chloride
- Ferrous Chloride
- Ferrous Sulfate
- Hydrogen Peroxide (35%, 50% and 70%)
- Hydrochloric Acid (Muriatic Acid)
- Hydrofluosilicic Acid (HFS Acid)
- Methanol
- Phosphoric Acid
- Phosphates (various)
- Poly Aluminum Chloride (PAX)
- Polymers
- Sodium Silicofluoride (SSF)
- Soda Ash
- Sodium Aluminate
- Sodium Bisulfite
- Sodium Bicarbonate
- Sodium Hydrosulfite
- Sodium Hypochlorite (Bleach)
- Sodium Permanganate
- Sulfuric Acid
- Potassium Permanganate
- Thiourea Dioxide
- Zinc Orthophosphate (Corrosion Inhibitor)
- Water Treatment Chemicals
- Wastewater Treatment Chemicals



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Qualifications

Key Chemical has been and remains in the business as a supplier of commodity and specialty chemicals used in the water and wastewater treatment industry for over 12 years.

Mr. Steven V. Norris has been The Owner / Operator / President for Key Chemical for the past 12 years. Mr. Norris Steve brings over 20 years of chemical industry experience and knowledge to make the company the success it is today. Currently Key Chemical serves customers all along the Eastern Seaboard and out to the Mid-West.

HFS-

Key Chemical, Inc. is one of the largest suppliers of Hydrofluorosilicic Acid (HFS Acid) in the United States. Our Fluorosilicic Acid is UL certified to meet NSF/ANSI Standard 60. Key Chemical supplies some of the purest HFS Acid in the Country. It is preferred by water plants and re-packagers due to the purity and clarity.

Our HFS acid is a "water-white" material manufactured using the purest process. It is not manufactured through the phosphate industry and contains fewer impurities. We have procured supply from domestic manufacturers. We have current contracts in place to ensure we have material to supply all our customers.

We supply hundreds of plants, from small towns (Northbrook IL, Wilmette, IL) to large cities (Detroit MI, Charlotte NC, Columbia MO etc.).

Long term supply: We have long-term supply contracts.

Supply Plan

Key Chemical has material available direct from the manufacturer, or out of our 600,000 gallon storage facility.

Multiple shipping points: Over five (5) shipping points from which to supply the Lansing MI Water System. During inclement weather we have multiple locations which can ship HFS Acid.

Largest storage in U.S.: With the completion of our second storage and blending facility, we have the ability to store up to 600,000 gallons (3000 tons / 135 truckloads) of inventory. This means security of supply for the Lansing MI Water System.



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Production: Key Chemical, Inc. is an authorized agent and has committed sufficient volume of Liquid Hydrofluorosilicic Acid (HFS Acid) to cover the approximate annual quantities of 200+ tons required by the Lansing MI Water System. We have three contract production sites and our own plant as well. All sites are UL/NSF Certified and are the closest production facilities to the Lansing MI Water System of all HFS producers. Production capacity exceeds 50,000 tons of HFS Acid.

- Willoughby, OH
- Bakersville, NC
- Spruce Pine, NC

We have a successful history of providing or obtaining any and all necessary tools and equipment in a timely manner.

Key Chemical, Inc. neither uses nor anticipates using any sub-contractors in the performance of our business and this contract.

Key Chemical, Inc. does not have any current or past situations that will or may be considered a Conflict of Interest as regards to this solicitation/contract.

Truck Fleet: We have one of the largest dedicated HFS Acid truck fleets in the Eastern U.S. (over 15 units). Our large truck fleet allows for rapid response. We can respond to an emergency need for next day deliveries if necessary.

Security: Key Chemical sets the standard in world class service and safe delivery of chemical to clients. Most clients have specific delivery instructions and parameters for delivery to their facilities and Key Chemical Inc adheres to all customer delivery requirements including but not limited to delivery time, timeliness and expected performance. It is our policy to follow all Homeland security guidelines and pay specific attention to Homeland security alerts and advisements. Our delivery team prides itself on professional and safe delivery of chemical and far exceeds expectations for each of our clients.

Responsible & Reliable Employees: (Immigration compliance) It is the policy of Key Chemical Inc to employ only United States citizens, and those non-U.S. citizens authorized to work in the United States in compliance with the Immigration Reform and Control Act of 1986.

Every employee must complete the Employment Eligibility Verification Form I-9, and present valid documentation. Furthermore, Key Chemical, Inc. utilizes the Department of Homeland Security's E-Verify website to confirm citizenship / work-authorization status for each and every employee.

The manufacturing, distribution, possession, sale or purchase of illegal drugs and alcohol on company property is strictly prohibited. Being under the influence of illegal drugs or alcohol on company property or while performing Key Chemical Inc company business is prohibited.



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Background checks and reference checks are performed on all employees; we make it our best practice to hire employees who have a proven track record of exemplary performance and longevity at previous related positions.

Key Chemical does not subcontract.

Professional and immediate Emergency Response:

It is Key Chemical, Inc's mission to eliminate any threat to the public and the environment that can result from any incident involving hazardous or non-hazardous material. We accomplish this mission through proper training, safe operations of motor vehicles, proper maintenance of all equipment and a meticulous hiring standard.

Our Emergency response plan provides the communication for any action that is warranted in the event of an accident or incident involving the release of a hazardous material or substance as defined by the CFR 49 regulations in the event of a roadside emergency during transit. At all sites, plants, locations and tank washes management will call a certified first response team such as Southeast Response and Remediation. Each trucker will be trained in the implementation of the following procedures. Refresher training is required on an annual basis.

Our Emergency Response team is available 24/7.

Project Examples & References

Services are current and ongoing executed contracts

Client	Details	Location	Contact
City of Detroit Water and Sewerage Department Office of Purchasing	HFS 4000 tons per year \$2M	9300 West Jefferson, Room 213 Detroit, MI 48209	Michele Pollock Office: 313-297-6490 pollock@dwsd.org
Louisville KY - Crescent Hills WTP	HFS 856 tons per year \$331,366	3018 Frankfort Ave Louisville KY 40206	Vince Ilari vilari@lwcky.com 502-569-3645
Charlotte NC Franklin Treatment Plant	HFS 800 tons per year \$344,848	5200 Brookshire Blvd. Charlotte, NC 28216	Susan Dunn 704-399-2426 ext. 221
City of Fort Worth TX Rolling Hills Plant	HFS 4000 tons per year \$2.2M	2500 SE Loop 820 Fort Worth, TX 76140	Plant Operator 817-392-5960

Mineral City Transport

Spruce Pine, NC

828-765-2424 800-999-7615

To: Whom it may concern
RE: Dedicated HFS Trailers

Mineral City Transport uses dedicated trailers for its HFS acid movements. These trailers haul only HFS acid and have not had any other material inside them since being in Mineral City Transport's ownership. Following are the trailers by unit number.

L1
L2
L3
L4
L5
L104

Thanks,
Gordon Underwood

