

RESOLUTION NO. 76-2021

Introduced by Joe Dike

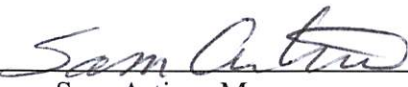
A RESOLUTION AUTHORIZING THE CITY MANAGER TO AWARD THE BID AND AUTHORIZE THE EXPENDITURE OF FUNDS FOR THE PURCHASE OF WATER TREATMENT CHEMICALS TO UNIVAR SOLUTIONS USA INC. IN AN AMOUNT NOT TO EXCEED THIRTEEN THOUSAND THREE HUNDRED EIGHTY AND XX/100 DOLLARS (\$13,380.00)

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

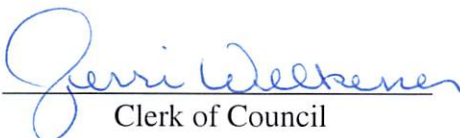
SECTION 1. That the City of Sandusky having advertised for bids on behalf of the City of Huron and other entities, has provided a final bid tabulation indicating the lowest and best bid for each chemical and that based on that tabulation, the City Manager is authorized and directed to award the bid and expenditure of funds for the purchase of 6,000 Gallons of Hydrofluosilicic Acid to Univar Solutions USA Inc. in an amount not to exceed Thirteen Thousand Three Hundred Eighty and xx/100 Dollars (\$13,380.00), bid in the form of Exhibit "A" attached hereto and made a part hereof.

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

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



Sam Artino, Mayor

ATTEST: 

Clerk of Council

ADOPTED: 09 NOV 2021

BIDDER'S NAME:

Authorized Signature:

Print Name of Authorized Signatory:

Title:

Participant Name (If different from Bidder):

Company Name:

Mailing Address:

Telephone Number:

Facsimile Number:

E-Mail Address:

Where Incorporated:

Federal Tax Identification Number:

Contact Person for Contract processing:

ADDITIONAL SIGNATURE FOR JOINT VENTURE

Authorized Signature:

Print Name of Authorized Signature:

Title:

Participant Name:

Mailing Address:

Telephone Number:

Facsimile Number:

{00341693.DOC;6}

CITY-BF-6

By: Shelley Riggle
Shelley Riggle
Municipal Specialist
Univar Solutions USA Inc
4600 Dues Drive
Cincinnati Ohio 45246
513-969-7393
Shelley.Riggle@univarsolutions.com
Washington
91-1347935
Shelley Riggle

CITY OF SANDUSKY, HURON AND ERIE COUNTY
CHEMICALS FOR CALENDAR YEAR 2022

ITEM NO.	CHEMICAL DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
1	Liquid Sodium Permanganate (NaMnO ₄)	12,000 Gallons More or Less	\$ 0	\$ 0
2	Hydrofluosilicic Acid (H ₂ SiF ₆)	17,000 Gallons More or Less	\$ 2.13 gallon	\$ 36,210.00
3	Sodium Hydroxide Liquid (NaOH) 50%	50,000 Gallons More or Less	\$ 3.368 gallon	\$ 168,400.00
4	Sodium Hypochlorite (NaOCl)	90,000 Gallons More or Less	\$ 0	\$ 0
5	Aluminum Sulfate Polymer Blend - Liquid (Type One) (Al ₂ (SO ₄) ₃)	101,500 Gallons More or Less/ Wet Tons 600	\$ 0	\$ 0
6	Powdered Activated Carbon (PAC)	123,000 Pounds More or Less	\$ 0	\$ 0
7	Ferrous Chloride Solution (FeCl ₂)	350,000 Pounds More or Less Dry Weight \$/dry lbs of Fe	\$ 0	\$ 0
8	Polymer - Liquid	88,000 Pounds More or Less	\$ 0	\$ 0
9	Ferrous Chloride Solution (FeCl ₂)	25,000 Gallons More or Less	\$ 0	\$ 0
10	Sodium Aluminate - Liquid	16,000 Gallons More or Less in bulk loads and/or 300 gallon totes	\$ 0	\$ 0
11	Sodium Bisulfite Solution (Reductant)	7,000 Gallons in 300 Gallon Totes 900 Gallons in 15 Gallon Drums More or Less	\$ 0	\$ 0
12	Sodium Hypochlorite (NaOCl)	15,000 Gallons in 300 Gallon Totes 2,700 Gallons in 50 Gallon Drums 2,600 Gallons in 15 Gallon Drums	\$ 0	\$ 0
13	Polymer - Liquid	More or Less 10,000 Pounds more or less in 2,300 Pound Totes	\$ 0	\$ 0
14	Liquid Chlorine (Cl ₂)	28,000 Pounds More or Less \$/lbs Deposit fee per 150 lb. cylinder, if applicable	\$ 0	\$ 0
15	Powdered Activated Carbon (PAC)	8 Tons More or Less	\$ 0	\$ 0

Updated 9/23/2021

CITY-BF-2

CITY OF SANDUSKY, HURON AND ERIE COUNTY
CHEMICALS FOR CALENDAR YEAR 2022

16	Sodium Hydroxide Liquid (NaOH) 25% Aluminum Chlorhydrate Polymer Blend - Liquid (Al(OH) ₃ Cl)	12,000 Gallons More or Less	\$ 1.649 gallon	\$ 19,788. ⁰⁰
17		12,000 Gallons More or Less	\$ -	\$ -
18	★ 1,800 gallon minimum order by # Hydrofluosilicic Acid (H ₂ SiF ₆)	8,000 Gallons More or Less	\$ 2.23 gallon	\$ 17,840. ⁰⁰
19	Liquid Sodium Permanganate (NaMnO ₄)	4,000 Gallons More or Less	\$ -	\$ -
20	Chlorine (Cl ₂)	12,000 Pounds More or Less	\$ -	\$ -
21	Liquid Caustic Soda - 50% NaOH	7,200 Gallons More or Less	\$ -	\$ -
22	Hydrofluosilicic Acid - 25%	18,000 Pounds More or Less	\$ -	\$ -
23	Polyaluminum Chloride Solution	250,000 Pounds More or Less	\$ -	\$ -
24	Liquid Ferrous Chloride	20,000 Gallons More or Less	\$ -	\$ -
25	Clarifloc CE-1583 Polymer	10 (275 gallon) Totes More or Less	\$ -	\$ -
26	Sodium Hypochlorite (NaOCl)	17 (300 gallon) Totes More or Less	\$ -	\$ -
27	Sodium Bisulfite Solution	15 (300 gallon) Totes More or Less	\$ -	\$ -
Bidder Name: <u>Univar Solutions USA Inc</u> Bidder Address: <u>4600 Dues Drive</u> Telephone Number: <u>513-949-7383</u> Fax Number: <u>513-949-7383</u> Date: <u>10-07-2021</u> Email Address: <u>shelley.riggie@univarsolutions.com</u>				

HURON

VERMILION

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

Univar Solutions USA Inc
Shelley Riggie
124 Chapel Hill Drive
Fairfield Ohio 45014

Mailing
Address

Updated 9/23/2021

CITY-BF-3

CITY OF SANDUSKY
BID GUARANTY AND CONTRACT BOND

(Section 153.571, Ohio Revised Code)

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

Univar Solutions USA Inc., 4600 Dues Drive, Cincinnati, OH 45246
(Name and Address)

as Principal, and Travelers Casualty and Surety Company of America
(Name of Surety)

as Surety, are hereby held and firmly bound unto the City of Sandusky, Ohio, as Oblige, in the
penal sum of the dollar amount of the bid submitted by the Principal to the Oblige on
October 14, 2021, to undertake the Project known as:

CHEMICALS FY2022

The penal sum referred to herein shall be the dollar amount of the Principal's bid to the
Obligee, incorporating any additive Alternate bids proposals made by the Principal on the date
referred to above to the Obligee, which are accepted by the Obligee. In no case shall the penal
sum exceed the amount of _____ Dollars (\$ _____). (If the
above lines are left blank, the penal sum will be the full amount of the Principal's bid,
including additive Alternates. Alternatively, if completed, the amount stated must not be less
than the full amount of the bid, including additive Alternates, in dollars and cents. A
PERCENTAGE IS NOT ACCEPTABLE.) For the payment of the penal sum well and truly to
be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators,
successors, and assigns.

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

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

{02436332.DOC.2}

CITY-CB-1

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

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

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

SIGNED This 24th day of September, 2021.

PRINCIPAL: Univar Solutions USA Inc.

BY: Julie Kalperin

TITLE: Julie Kalperin, Assistant Secretary

SURETY: Travelers Casualty and Surety Company of America SURETY ADDRESS:

One Tower Square, Bond 5/PB

Street

Hartford, CT 06183

City State Zip

() 925-945-4121

Telephone Number

SURETY AGENT'S ADDRESS:

AON

Agency Name

5555 San Felipe, Suite 1500

Street

Houston, Texas 77056

City State Zip

() 832-476-6803

Telephone Number

TRAVELERS**Travelers Casualty and Surety Company of America**
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Misty Wright of HOUSTON, Texas, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

City of Hartford ss.

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026



Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her, and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary, and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary, or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority, and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or undertaking to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 24th day of September, 2021



Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

Effective Date: November 27, 1984

Expiration Date: April 1, 2022

State of Ohio
Department of Insurance
Certificate of Authority

This is to Certify, that

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

NAIC No. 31194

is authorized in Ohio to transact the business of insurance as defined in the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Aircraft	Accident & Health
Allied Lines	Multiple Peril - Homeowners
Bolter & Machinery	Ocean Marine
Burglary & Theft	Other Liability
Commercial Auto - Liability	Private Passenger Auto - Liability
Commercial Auto - No Fault	Private Passenger Auto - No Fault
Commercial Auto - Physical Damage	Private Passenger Auto - Physical Damage
Credit	Surety
Earthquake	Workers Compensation
Fidelity	
Financial Guaranty	
Fire	
Glass	
Inland Marine	
Medical Malpractice	
Multiple Peril - Commercial	
Multiple Peril - Farmowners	

This Certificate of Authority is subject to the laws of the State of Ohio.



Mike DeWine, Governor

Judith L. French

Judith French, Director

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2020

CAPITAL STOCK \$ 6,480,000

ASSETS		LIABILITIES & SURPLUS	
CASH AND INVESTED CASH	\$ 239,403,348	UNEARNED PREMIUMS	\$ 1,121,070,380
BONDS	3,831,156,861	LOSSES	1,003,200,669
STOCKS	108,674,035	LOSS ADJUSTMENT EXPENSES	163,346,678
INVESTMENT INCOME DUE AND ACCRUED	30,856,709	COMMISSIONS	49,805,693
OTHER INVESTED ASSETS	4,970,512	TAXES, LICENSES AND FEES	13,561,421
PREMIUM BALANCES	277,653,788	OTHER EXPENSES	42,506,558
NET DEFERRED TAX ASSET	55,189,715	CURRENT FEDERAL AND FOREIGN INCOME TAXES	4,865,464
REINSURANCE RECOVERABLE	32,553,518	REMITTANCES AND ITEMS NOT ALLOCATED	5,946,301
RECEIVABLES FROM PARENT, SUBSIDIARIES AND AFFILIATES	14,876,347	AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS	42,228,250
OTHER ASSETS	4,155,794	POLICYHOLDER DIVIDENDS	12,353,304
		PROVISION FOR REINSURANCE	7,930,280
		ADVANCE PREMIUM	1,867,512
		CEDED REINSURANCE NET PREMIUMS PAYABLE	63,102,972
		RETROACTIVE REINSURANCE RESERVE ASSUMED	800,763
		OTHER ACCRUED EXPENSES AND LIABILITIES	568,668
		TOTAL LIABILITIES	\$2,534,655,020
		CAPITAL STOCK	\$6,480,000
		PAID IN SURPLUS	433,603,760
		OTHER SURPLUS	1,650,750,847
		TOTAL SURPLUS TO POLICYHOLDERS	\$2,061,034,607
TOTAL ASSETS	\$ 4,825,889,627	TOTAL LIABILITIES & SURPLUS	\$4,825,889,627

STATE OF CONNECTICUT)
COUNTY OF HARTFORD) SS.
CITY OF HARTFORD)

MICHAEL J. DODDY, BEING DULY SWORN, SAYS THAT HE IS VICE PRESIDENT - FINANCE, OF TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA,
AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT STATEMENT OF THE FINANCIAL CONDITION OF SAID
COMPANY AS OF THE 31ST DAY OF DECEMBER, 2020.

Michael J. Doddy
VICE PRESIDENT - FINANCE

NOTARY PUBLIC

SUSAN M. WEISSELEDER
Notary Public
My Commission Expires November 30, 2022

SUBSCRIBED AND SWORN TO BEFORE ME THIS
6TH DAY OF MARCH, 2021



NATIONAL ASSOCIATION OF SURETY BOND PRODUCERS

7735 Old Georgetown Road, Suite 900

Bethesda, MD 20814

Tel: 240.200.1270

Fax: 240.200.1295

www.nasbp.org

NASBP White Paper: Resident Agent Countersignature Laws Have Been Eradicated and Violate the Law in Every U.S. State

The purpose of this short white paper is to inform the reader that resident agent countersignature laws have been eradicated throughout the United States and its territories (with the exception of Guam, where it has not been challenged). Any bid, performance, or payment bond that requires a resident agent countersignature or a resident agent signature violates the law, as such requirements have been held unconstitutional by federal courts throughout the United States or have been repealed by state legislatures, because such requirements impermissibly favor licensed resident agents over licensed non-resident agents. It is not the countersignature requirement that is problematic; it is the *resident agent* countersignature requirement that violates the law.

The National Association of Surety Bond Producers (NASBP) is aware that officials in some state and local agencies are not informed about the illegality of resident agent countersignature mandates. These officials will improperly reject a bid based on lack of a required resident agent countersignature or improperly refuse to accept performance and payment bonds based on lack of a required resident agent countersignature. NASBP receives dozens of member requests each year to send comment letters to public agencies that have included the unlawful resident agent countersignature requirement in their surety bonds.

Countersignature laws date back to the early twentieth century when states passed the laws as a consumer protection measure. The regulations requiring non-resident agents to receive sign-off by a local resident agent were originally intended to ensure compliance with local insurance laws. Those regulations also meant that out-of-state agents had to pay local agents for their signatures. By the 1990s, technology made the countersignature laws an anachronism of regulation. The movement to repeal countersignature laws began in the 1990s and ended in 2008 when the Ninth Circuit struck down Nevada's countersignature law. This movement was spearheaded by The Council of Insurance Agents & Brokers.

One of the most well-known and widely quoted cases on this matter is *Council of Insurance Agents and Brokers v. Tom Gallagher*, 287 F. Supp. 2d 1302 (N.D. Fla. 2003), in which the U.S. District Court for the Northern District of Florida struck down a Florida statute that impermissibly favored resident agents. The district court determined that there was no rational basis for a distinction between Florida licensed resident agents and Florida licensed non-resident agents and declared unconstitutional the Florida statute at issue that discriminated against Florida-licensed non-resident agents.

Agency officials may want to have the agency's bond forms reviewed to ensure that its bonds do not contain an illegal resident agent signature or countersignature requirement. The bonds should contain a licensed (resident OR non-resident) agent requirement.

October 2018

4600 Dues Drive
Cincinnati Ohio 45246
45246
USA



PROJECT NAME: Chemicals FY 2022
CONTRACT NO.: _____

PERSONAL PROPERTY TAX
CERTIFICATION
REQUIRED BY OHIO REVISED CODE
SECTION 5719.042

FINANCE DIRECTOR
CITY OF SANDUSKY

Univar Solutions USA cnc
BIDDER'S NAME

STATE OF Ohio
COUNTY OF Butler SS:

THE UNDERSIGNED HEREBY CERTIFIES THAT THE BIDDER TO WHOM CONTRACT AWARD IS BEING CONSIDERED WAS NOT CHARGED WITH ANY DELINQUENT PERSONAL PROPERTY TAX ON THE GENERAL TAX LIST OF PERSONAL PROPERTY FOR ANY COUNTY IN THE STATE OF OHIO AT THE TIME THE BID WAS SUBMITTED FOR THE ABOVE-REFERENCED CONTRACT.

NAME: Shelley Biggs
(SIGNATURE)
NAME: Shelley Biggs
(PRINTED)
TITLE: Municipal Specialist

STATE OF Ohio
COUNTY OF Butler SS:

SWORN TO BEFORE ME AND SUBSCRIBED IN MY PRESENCE THIS 16th DAY
OF Oct



Gezelis Salazar
NOTARY PUBLIC

NOTE: THIS AFFIDAVIT IS TO BE REPRODUCED ON THE BIDDER'S LETTERHEAD AND SIGNED BY THE APPROPRIATE SIGNATORY BEFORE A NOTARY PUBLIC.



4600 Dues Drive
Cincinnati Ohio 45246
45246
USA

**CITY OF SANDUSKY
BIDDER'S AFFIDAVIT**

(NOTE: THIS AFFIDAVIT IS TO BE REPRODUCED ON THE BIDDER'S LETTERHEAD AND SIGNED BY THE APPROPRIATE SIGNATORY BEFORE A NOTARY PUBLIC. CROSS OUT EITHER PARAGRAPH 3 OR 4, WHICHEVER IS NOT APPLICABLE. IF PARAGRAPH 3 IS NOT CROSSED OUT, EXHIBIT A MUST BE COMPLETED AND ATTACHED TO NAME AND DESCRIBE THE INTERESTS OF ALL RELATED PERSONS.)

PROJECT NAME: Chemicals FY 2022
CONTRACT: _____

ETHICS CERTIFICATION PURSUANT TO OHIO
REVISED CODE SECTIONS 9.24, 102.03, 102.04,
2921.42 AND 3517.13

DIRECTOR OF ENGINEERING SERVICES
CITY OF SANDUSKY

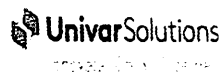
Univar Solutions USA cnc
BIDDER'S NAME

STATE OF Ohio
COUNTY OF Butler SS:

The undersigned being duly sworn, deposes and states as follows:

1. The undersigned is duly authorized to make the statements herein on behalf of the Bidder.
2. No unresolved finding for recovery has been issued against the Bidder by the Auditor of State.
3. No official or employee of the City of Sandusky is officer, director, trustee, shareholder, partner, member or owner of the Bidder (each, a "Related Person"), or is a business associate or a member of the family of the Bidder or a Related Person.
4. An official or an employee of the City of Sandusky is an officer, director, trustee, shareholder, partner, member or owner (each, a "Related Person") of the Bidder, or is a business associate or a member of the family of the Bidder or Related Person, but
 - a. the subject of the Contract is necessary supplies or services for the City of

4600 Dues Drive
Cincinnati Ohio 45246
45246
USA



- b. the supplies or services are unobtainable elsewhere for the same or lower cost, or are being furnished to the City of Sandusky as part of a continuing course of dealing established prior to the Related Person becoming a City official or employee;
- c. the treatment accorded the City of Sandusky is either preferential to or the same as that accorded other customers of the Bidder in similar transactions;
- d. the entire transaction resulting in the Contract has been conducted at arms-length, with full knowledge by the City of the interest of the Related Persons as described in Exhibit A attached hereto; and
- e. the Related Person has taken no part in the deliberations or decision of the City with respect to the Contract.

5. The Bidder is a/an (select one):

- ☐ Individual, partnership, or other unincorporated business association (including a professional association organized under Ohio Revised Code Chapter 1785), estate, or trust.
- ☒ Corporation organized and existing under the laws of the State of Washington
- ☐ Labor organization.

6. The undersigned hereby affirms that the Bidder and each of the individuals specified in Section 3517.13(I)(3), ORC, (with respect to non-corporate entities and labor organizations) or Section 3517.13(J)(3), ORC, (with respect to corporations) are in full compliance with the political contributions limitations set forth in Sections 3517.13(I) and (J), ORC, as applicable. I understand that a false representation on this certification constitutes a felony of the fifth degree pursuant to Sections 3517.13(AA) and 3517.992(R)(3), ORC. Any contract that contains a falsified certification shall be rescinded.

NAME: Shelley Riggle
(SIGNATURE)

NAME: Shelley Riggle
(PRINTED)

TITLE: Municipal Specialist

STATE OF Ohio

COUNTY OF Butler SS:

Sworn to before me and subscribed in my presence this 1st day of Oct, 20 21



NOTARY PUBLIC

CITY-BA-2

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CITY OF SANDUSKY
BIDDER'S AFFIDAVIT
EXHIBIT A

Project Name: Chemicals for the Calendar Year 2022

Contract: _____

Bidder's Name: Univar Solutions USA clve

Related official/public employee:

Name:

Title/Position:

Relation to Bidder:

N/A

{02436332.DOC:2}

CITY-BA-3

4600 Dues Drive
Cincinnati Ohio 45246
45246
USA



CITY OF SANDUSKY
BIDDER'S AFFIDAVIT #2

CONTRACT NAME: Chemicals FY22

LOBBYING AND CAMPAIGN
FINANCING CERTIFICATION

DIRECTOR OF ENGINEERING SERVICES
CITY OF SANDUSKY

Univar Solutions USA Inc
BIDDER'S NAME

STATE OF Ohio
COUNTY OF Butler SS:

The undersigned hereby certifies as follows:

1. The Bidder is and will remain in compliance with the requirements of Sections 101.70 and 121.60 *et seq.* of the Ohio Revised Code relating to lobbying.
2. The Bidder is and will remain in compliance with Chapter 3517 of the Ohio Revised Code, Campaign Financing, including that all applicable parties listed in division (I)(3) (with respect to non-corporate entities and labor organizations) or (J)(3) (with respect to corporations) are in full compliance with divisions (I)(1) and (J)(1) of the Ohio Revised Code Section 3517.13.

NAMES Shelley Riggle
(SIGNATURE)

NAME: Shelley Riggle
(PRINTED)

TITLE: Municipal Specialist

CITY-BA2-1

4600 Dues Drive
Cincinnati Ohio 45246
45246
USA



STATE OF Ohio
COUNTY OF Butler SS:

SWORN TO BEFORE ME AND SUBSCRIBED IN MY PRESENCE THIS 6th
DAY OF June 2021



Gerald Stallings
NOTARY PUBLIC

NOTE: THIS AFFIDAVIT IS TO BE REPRODUCED ON THE BIDDER'S
LETTERHEAD AND SIGNED BY THE APPROPRIATE
SIGNATORY BEFORE A NOTARY PUBLIC.

CITY-BA2-2

CITY OF SANDUSKY
NON-COLLUSION AFFIDAVIT

STATE OF Ohio }
COUNTY OF Butler } ss:

The undersigned hereby certifies as follows:

- (1) The bid to the City of Sandusky, Ohio, submitted by the Bidder on 10-6-2021 in accordance with the Contract Documents dated 10-6-2021 (the "Bid") has been prepared by the Bidder without collusion or fraud with any Person.
- (2) The Bid is not made in the interest of or on behalf of any undisclosed Person.
- (3) The Base Bid, any Unit Price and any Alternate bid in the Bid have been arrived at independently without collusion, consultation, communication or agreement, or for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Price or Alternate with any other Bidder.
- (4) Unless otherwise required by law, the Base Bid, any Unit Price and any Alternate bid in the Bid have not been knowingly disclosed by the Bidder and will not be knowingly disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Price or Alternate bid.
- (5) No attempt has been made or will be made by the Bidder to induce any other Person to submit or not to submit a bid for the purpose of restricting competition.

Date: 10-6, 2021

Univar Solutions US LLC
(Name of Bidder)

By: Shelley Pigg
Signature of person authorized to bind
the Bidder

(STREET RESURFACING)

CITY-NCA-1

STATE OF Ohio }
COUNTY OF Butler } ss

SWORN TO BEFORE ME AND SUBSCRIBED IN MY PRESENCE THIS 6th DAY OF October, 2021.



Myra A. Smith
Notary Public

(STREET RESURFACING)

CITY-NCA-2

Tech Data Sheet

UnivarSolutions

Caustic Soda Diaphragm Grade 25%

Specifications

PROPERTIES	PARAMETERS
NaOH, % wt.	23.0 – 27.0
Na ₂ O, % wt.	17.4 – 21.3
NaCl, % wt.	0.55 max
Na ₂ CO ₃ , % wt.	0.1 max.
NaClO ₃ , %wt	0.2 max.
Na ₂ SO ₄ , % wt.	0.0375 max.
Fe, ppm	5.0 max

UTDS-0445 – Caustic Soda Diaphragm Grade 25% - 04-14-2021

Consult the SDS for additional information. All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar Solutions USA Inc. ("Univar") makes no representation or warranty, express or implied, concerning the accuracy or sufficiency of the information. Univar Solutions is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar Solutions' standard Terms and Conditions, available at univarsolutions.com or upon request. Univar Solutions makes no additional representations or warranties, express or implied, as to the Product.

3075 Highland Pkwy, Suite 200, Downers Grove, IL 60515 USA | +1 855.888.8648 | univarsolutions.com

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Tech data sheet

UnivarSolutions

Caustic Soda 50% - Diaphragm Grade

Product details

- Caustic Soda Diaphragm Grade 50% is a clear or opaque liquid.
- Univar Solutions supplied 50% Liquid Sodium Hydroxide meets the purity standards of the Food Chemical Codex

Specifications

PROPERTIES	PARAMETERS
Sodium Hydroxide (NaOH), % wt.	49.00 - 51.50
Sodium Oxide (Na ₂ O), % wt.	38.00 – 39.90
Sodium Chloride (NaCl), % wt.	1.10
Sodium Carbonate (Na ₂ CO ₃), % wt.	0.20 max.
Sodium Chlorate (NaClO ₃), % wt.	0.40 max
Sodium Sulfate (Na ₂ SO ₄), % wt.	0.075 max
Iron (Fe), ppm	10.0 max.

UTDS – 0107 Caustic Soda 50% Diaphragm Grade 06.03.2020

Consult the SDS for additional information. All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar Solutions USA Inc. ("Univar") makes no representation or warranty, express or implied, concerning the accuracy or sufficiency of the information. Univar Solutions is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar Solutions' standard Terms and Conditions, available at univarsolutions.com or upon request. Univar Solutions makes no additional representations or warranties, express or implied, as to the Product.

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INDUSTRIAL PRODUCTS

Source: Aurora

Alternate Names: Fluorosilicic Acid, FSA

Product Name: Hydrofluorosilicic Acid (HFSA)

23% H_2SiF_6

Grade: Industrial

Order Code: HFSA

SDS No.: 217

page 1 of 1

TYPICAL ANALYSIS	TYPICAL	GUARANTEED
HFSA, as H_2SiF_6	24.1	23.0 min.
H_2SiF_6 , as F	19.1	
Heavy Metals, as lead (Pb)	<0.02%	
Phosphates, as P_2O_5	0.2	
Lead, as Pb	1.0 ppm	
Iron, as Fe_2O_3	70 ppm	
Iodide, as I	16 ppm	
Arsenic, as As	6.0 ppm	

PHYSICAL DATA	TYPICAL	GUARANTEE
Appearance	Water White to Straw Yellow	
Specific Gravity @ 75°F	1.23	
Weight, bagal @ 75°F	10.3	

PotashCorp

05/2016

PCS Sales (USA), Inc. • 1101 Skokie Blvd., Northbrook, Illinois 60062 Phone: (847) 849-4200 • 1 (800) 654-4514



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 06/04/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 25%
Recommended use of the chemical and restrictions on use : Industrial chemical

Manufacturer or supplier's details
Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2681
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Corrosive to metals : Category 1
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS label elements
Hazard pictograms



Signal word : Danger
Hazard statements : H280 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements : Prevention:
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

SDS Number: 100000038904

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 06/04/2020

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 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.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
Storage:
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	10 - 20

Actual concentration is withheld as a trade secret
Any Concentration shown as a range is due to batch variation.

Synonyms : Sodium Hydroxide,

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 06/04/2020

If swallowed

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Take victim immediately to hospital.

Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 06/04/2020

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0

Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

- Eye protection : Eye wash bottle with pure water

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CAUSTIC SODA 25%



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- Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : colorless
- Odour : odorless
- Odour Threshold : No data available
- pH : 14 @ 20 - 25 °C (68 - 77 °F)
- Freezing Point : No data available
- Boiling Point : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : No data available
- Relative density : 1.27 - 1.28 Reference substance: (water = 1)
- Density : No data available
- Water solubility : No data available
- Solubility in other solvents : No data available
- Partition coefficient n- : No data available

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CAUSTIC SODA 25%



Safety Data Sheet
CAUSTIC SODA 25%

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octanol/water

Auto-ignition temperature : No data available

Thermal decomposition : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Acids
Halogenated compounds
Metals
organic nitro compounds
Zinc

SECTION 11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Components:

1310-73-2:

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation

Components:

1310-73-2:

Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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CAUSTIC SODA 25%



Safety Data Sheet
CAUSTIC SODA 25%

Version 1.2

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human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further Information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential

: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S.

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 08/04/2020

Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):
UN1824, Sodium hydroxide solution, 8, II

IATA (International Air Transport Association):
UN1824, Sodium hydroxide solution, 8, II

IMDG (International Maritime Dangerous Goods):
UN1824, SODIUM HYDROXIDE SOLUTION, 8, II

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	10000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Corrosive to metals
Skin corrosion or irritation

SDS Number: 100000035904

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 08/04/2020

SERIOUS eye damage or eye irritation
SARA 302 : This material does not contain any components with a section 302 EHS TPQ.
SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

7732-18-5 Water
1310-73-2 Sodium hydroxide

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory
DSL : On the inventory, or in compliance with the inventory
AICS : On the inventory, or in compliance with the inventory
NZIoC : On the inventory, or in compliance with the inventory
ENCS : Not in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory

SDS Number: 100000035904

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CAUSTIC SODA 25%



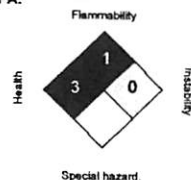
Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 06/04/2020

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HFA: TH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 06/04/2020

Material number:

16160832, 16137556, 16137474, 16137324, 16152197, 16158393, 16152426, 16144481, 16147885, 16159715, 16143521, 16160487, 16160771, 16160572, 16160486, 16147888, 16147884, 16147854, 16147799, 16148872, 16144724, 16144461, 16148802, 16152705, 16145049, 16136108, 16135898, 16135793, 16135298, 16143511, 16143409, 16143472, 16143461, 16143389, 16142429, 16140693, 16140424, 16142307, 16142009, 16141887, 16140353, 16141665, 16140968, 16142282, 16140375, 16140289, 16140979, 16141187, 16145400, 16145399, 16140956, 16140806, 16140704

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals

SDS Number: 10000038904

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 25%

Version 1.2

Revision Date: 06/04/2020

EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

SDS Number: 10000038904

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CAUSTIC SODA 25%



Safety Data Sheet CAUSTIC SODA 50%

Version 1.5

Revision Date: 12/11/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 50%
CAS Name : 1310-73-2 (50%)

Recommended use of the chemical and restrictions on use

Recommended use : Detergent
Industrial chemical

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60516
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-428-2681
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H280 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements : Prevention:
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

SDS Number: 100000010751

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CAUSTIC SODA 50%



Safety Data Sheet CAUSTIC SODA 50%

Version 1.5

Revision Date: 12/11/2019

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 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.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
Storage:
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	50 - 70

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty

SDS Number: 100000010751

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CAUSTIC SODA 50%



Safety Data Sheet CAUSTIC SODA 50%

Version 1.5

Revision Date: 12/11/2019

- of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Take victim immediately to hospital.
- If swallowed :
- Keep respiratory tract clear.
 - Do not induce vomiting without medical advice.
 - Do not give milk or alcoholic beverages.
 - Never give anything by mouth to an unconscious person.
 - If symptoms persist, call a physician.
 - Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling :
- Do not breathe vapours/dust.
 - Avoid contact with skin and eyes.
 - For personal protection see section 8.
 - Smoking, eating and drinking should be prohibited in the application area.
 - Container may be opened only under exhaust ventilation hood.
 - To avoid spills during handling keep bottle on a metal tray.
 - Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage :
- Keep container tightly closed in a dry and well-ventilated place.
 - Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 - Observe label precautions.
 - Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m ³	ACGIH
		C	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z-1
		C	2 mg/m ³	OSHA P0

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

- Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection

- Impervious clothing

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Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, opaque

Odour : odorless

Odour Threshold : No data available

pH : 14 @ 20 °C (68 °F)

Freezing Point (Freezing Point) : -32 - 15 °C (-26 - 59 °F)

Boiling Point (Boiling point/boiling range) : 110 - 148 °C (230 - 298 °F)

Flash point : > 200 °C (> 392 °F)

Evaporation rate : < 1.0
(Butyl Acetate = 1)

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 50 mmHg @ 20 °C (68 °F)

Relative vapour density : < 1.0 @ 20 - 25 °C (68 - 77 °F)

Relative density : 1.11 - 1.55 @ 20 °C (68 °F)
Reference substance: (water = 1)

Density : 1.5288 g/cm³ @ 15.6 °C (59.9 °F)

Solubility(ies)
Water solubility : No data available

Solubility in other solvents : completely soluble

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

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Thermal decomposition : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : Exposure to water vapour.
Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Organic materials
Strong acids
Strong oxidizing agents
metals subject to acid corrosion

Hazardous decomposition products : Sodium oxides
Hydrogen

SECTION 11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

1310-73-2:

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

1310-73-2:

Species: Rabbit

Result: Risk of serious damage to eyes.

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Carcinogenicity IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed *human carcinogen* by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Aspiration toxicity

Product:

No aspiration toxicity classification

Further Information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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Additional ecological information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1824, Sodium hydroxide solution, 8, II

IATA (International Air Transport Association):

UN1824, Sodium hydroxide solution, 8, II

IMDG (International Maritime Dangerous Goods):

UN1824, SODIUM HYDROXIDE SOLUTION, 8, II, Flash Point: > 200 °C(> 392 °F)

SECTION 15. REGULATORY INFORMATION

WHMIS Classification

: E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	1942

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation

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- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:
1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:
1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

US State Regulations

Massachusetts Right To Know

1310-73-2 Sodium hydroxide 50 - 70 %

Pennsylvania Right To Know

7732-18-5 Water 50 - 70 %
1310-73-2 Sodium hydroxide 50 - 70 %

New Jersey Right To Know

7732-18-5 Water 50 - 70 %
1310-73-2 Sodium hydroxide 50 - 70 %

California Prop 65

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

The components of this product are reported in the following inventories:

- TSCA** : On TSCA Inventory
- DSL** : All components of this product are on the Canadian DSL
- AICS** : On the inventory, or in compliance with the inventory
- NZIO** : On the inventory, or in compliance with the inventory
- ENCS** : On the inventory, or in compliance with the inventory
- KECI** : On the inventory, or in compliance with the inventory
- PICCS** : On the inventory, or in compliance with the inventory

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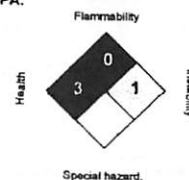
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- IECSC** : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661)
SDSNA@univarsolutions.com

Revision Date : 12/11/2019

Material number:

16160438, 16134981, 16141290, 16152709, 16141049, 16145955, 16143347, 16141315, 16141131, 16141316, 16141169, 16140431, 16142295, 16142410, 16140880, 16142220, 16141914, 16140681, 16140749, 16142290, 16140467, 16142463, 16140904, 16145402, 16145403, 16140930, 16145404, 16145405, 16140858, 16141077, 16140717, 16141148, 16141543, 16140448, 16140132, 85829, 16055985, 16055984, 16055983, 16054023, 16014539, 20138, 706729, 660414, 642832, 504035, 173626, 546366, 86436, 103611, 54187, 69954, 102127, 102124, 102211, 102393, 85816, 103214, 86335, 53573, 69365, 70560, 86011, 86832, 86316, 54528, 69432, 70564, 124846, 150838, 136566, 54529, 506924, 39831, 35724, 20141, 20139

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety and Health

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as List			Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Offfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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Safety Data Sheet HYDROFLUOSILICIC ACID SOLUTION

Version 1.4

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYDROFLUOSILICIC ACID SOLUTION

Recommended use of the chemical and restrictions on use

Recommended use : Industrial chemical

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-627-3887

Additional information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 3

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.

Precautionary statements : Prevention:
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 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.
P362 Take off contaminated clothing and wash before reuse.
P390 Absorb spillage to prevent material damage.
Storage:
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
16961-83-4	Fluorosilicic Acid	20 - 25
7684-39-3	Hydrofluoric acid	0.1 - 1

Actual concentration is withheld as a trade secret.
Any Concentration shown as a range is due to batch variation.

Synonyms : HFS; Fluorosilicic Acid; Hydrofluorosilicic Acid,

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

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advice.
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Take victim immediately to hospital.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Take victim immediately to hospital.

If swallowed : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)
Foam
Dry powder
Water mist

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

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- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Prevent unauthorized access.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7664-39-3	Hydrofluoric acid	TWA	0.5 ppm (Fluorine)	ACGIH
		C	2 ppm (Fluorine)	ACGIH
		TWA	3 ppm 2.5 mg/m3	NIOSH REL
		C	6 ppm 5 mg/m3	NIOSH REL
		TWA	3 ppm	OSHA Z-2
		TWA	3 ppm (Fluorine)	OSHA PD
		STEL	6 ppm (Fluorine)	OSHA PD

Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

- Hygiene measures : Avoid contact with skin, eyes and clothing.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Clear, Colorless, Straw color
Odour	: pungent
Odour Threshold	: No data available
pH	: 1 - 2
Freezing Point (Melting point/freezing point)	: -20 °C (-4 °F)
Boiling Point (Initial boiling point and boiling range)	: 136 - 163 °C (277 - 325 °F)
Flash point	: does not flash
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.2 @ 25 °C (77 °F) Reference substance: (water = 1)
Density	: 10.17 lb/gal
Solubility(ies) Water solubility	: Miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions. No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. No data available
Incompatible materials	: glass Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	: Acute toxicity estimate: 500.1 mg/kg
Acute inhalation toxicity	: Acute toxicity estimate: 50.01 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	: Acute toxicity estimate: 500.05 mg/kg

Components:

7664-39-3:

Acute oral toxicity	: Assessment: The component/mixture is highly toxic after single ingestion. Remarks: No data available
Acute inhalation toxicity	: LC50 (Rat): 1610 ppm Assessment: The component/mixture is highly toxic after short term inhalation.
Acute dermal toxicity	: Assessment: The component/mixture is extremely toxic after single contact with skin. Remarks: No data available

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Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

16961-63-4:

Species: Rat

Result: Causes burns.

7664-39-3:

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

7664-39-3:

Species: Rabbit

Result: Risk of serious damage to eyes.

Germ cell mutagenicity

Components:

7664-39-3:

Genotoxicity in vitro

: Test Type: Ames test
Species: *Salmonella typhimurium*
Result: negative

Genotoxicity in vivo

: Test Type: in vivo micronucleus test
Species: Mouse
Result: negative

Germ cell mutagenicity -
Assessment

: Tests on bacterial or mammalian cell cultures did not show
mutagenic effects.

Carcinogenicity

Components:

7664-39-3:

Species: Rat

NOAEL: 25 mg/kg bwd/day

Carcinogenicity - Assess-
ment

: Not classifiable as a human carcinogen.

IARC

No component of this product present at levels greater than or
equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or
equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or
equal to 0.1% is identified as a known or anticipated carcinogen
by NTP.

Reproductive toxicity

Components:

7664-39-3:

Reproductive toxicity - As-
sessment

Fertility classification not possible from current data.

Teratogenicity - Assessment

: Embryotoxicity classification not possible from current data.

Further Information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

7664-39-3:

Toxicity to fish

: Remarks: No data available

Toxicity to daphnia and other
aquatic invertebrates

: EC50 (*Daphnia magna* (Water flea)): 97 mg/l
Exposure time: 48 h

Toxicity to algae

: Remarks: No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

SDS Number: 10060639688

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Safety Data Sheet

HYDROFLUOSULFONIC ACID SOLUTION

Version 1.4

Revision Date: 05/24/2021

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment, Part 82 Pro-

Substances : Section of Stratospheric Ozone - CAA Section 602 Class I

Remarks: This product neither contains, nor was manufac-

tured with a Class I or Class II ODS as defined by the U.S.

Clean Air Act Section 602 (40 CFR 82, Subpl. A, App. A + B).

Additional ecological infor-

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

: Dispose of in accordance with all applicable local, state and

federal regulations

For assistance with your waste management needs - including

disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-637-7922

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging

: Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1778, Fluorosulfonic acid, 8, II

IATA (International Air Transport Association):

UN1778, Fluorosulfonic acid, 8, II

IMDG (International Maritime Dangerous Goods):

UN1778, FLUOROSULFONIC ACID, 8, II

SECTION 15. REGULATORY INFORMATION

EPRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrofluoric acid	7664-39-3	100	10001
Hydrochloric acid	7647-01-0	5000	*

SDS Number: 10000039688

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Safety Data Sheet

HYDROFLUOSULFONIC ACID SOLUTION

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Revision Date: 05/24/2021

: Calculated RQ exceeds reasonably estimable upper limit.

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrofluoric acid	7664-39-3	100	10001
Hydrochloric acid	7647-01-0	5000	*

SARA 311/312 Hazards

: Corrosive to metals

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

: This material does not contain any components with a section

302 EHS TPQ.

SARA 313

: This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Sec-

tion 112 (40 CFR 81).

Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(y) for Accidental Inter-

mediate or Final VOCs (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid

Hydrofluoric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid

Hydrofluoric acid

Massachusetts Right To Know

Fluorosulfonic Acid

Hydrochloric acid

Pennsylvania Right To Know

Water

Fluorosulfonic Acid

California Prop 65

: This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other re-

productive harm.

SDS Number: 10000039688

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Safety Data Sheet

HYDROFLUOSILICIC ACID SOLUTION

Version 1.4

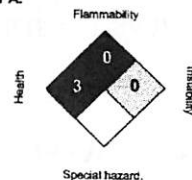
Revision Date: 05/24/2021

The components of this product are reported in the following inventories:

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3/
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 05/24/2021

Material number:

16170213, 16169394, 16171091, 16145665, 16144609, 16151122, 16148601, 16159674, 16166531, 16141271, 16148010, 16150746, 16145666, 16143932, 16147890, 16140484

SDS Number: 100600039888

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Safety Data Sheet

HYDROFLUOSILICIC ACID SOLUTION

Version 1.4

Revision Date: 05/24/2021

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Offshore Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

SDS Number: 100600039888

13 / 13 HYDROFLUOSILICIC ACID SOLUTION



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of Friday, September 24, 2021 at 12:15 a.m. Eastern Time.
Please **contact NSF** to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

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

[CompanyName=Univar+Solutions+USA+Inc&ChemicalName=Sodium+Hydroxide&PlantState=Ohio+OH&PlantCountry=UNITED+STATES&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Univar+Solutions+USA+Inc&ChemicalName=Sodium+Hydroxide&PlantState=Ohio+OH&PlantCountry=UNITED+STATES&)

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

Univar Solutions USA Inc. DBA Univar USA Inc.

3075 Highland Parkway
Suite 200
Downers Grove, IL 60515
United States
425-889-3400

Facility : # 2 Distribution Center - Toledo, OH

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 50%	Corrosion Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 50%	Corrosion Control	100mg/L
	pH Adjustment	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

<https://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Univar+Solutions+USA+Inc&TradeName=&ChemicalName=Sodium+Hydroxide&PlantState=Ohio+OH&PlantCountry=UNITED+STATES&> 1/2

Facility : Distribution Center - Cincinnati, OH

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Walbridge, OH

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Number of matching Manufacturers is 1

Number of matching Products is 8

Processing time was 0 seconds

<https://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Univar+Solutions+USA+Inc&TradeName=&ChemicalName=Sodium+Hydroxide&PlantState=Ohio+OH&PlantCountry=UNITED+STATES&> 2/2



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Thursday, July 16, 2020** at 12:15 a.m. Eastern Time. Please **contact NSF** to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

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

CompanyName=NUTRIEN&ChemicalName=Hydrofluosilicic+Acid&

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

PCS Sales DBA Nutrien
1101 Skokie Boulevard, Suite 400
P.O. Box 3320
Northbrook, IL 60062
United States
847-849-4301

Facility : Aurora, NC

Fluosilicic Acid
Trade Designation
Fluosilicic Acid

Product Function
Fluoridation

Max Use
6mg/L

Number of matching Manufacturers is 1

Number of matching Products is 1

Processing time was 0 seconds

CO# 9259063
U# B374570

SECTION B - COMPANY IDENTIFICATION
1. UNIVAR USA - DOWNERS GROVE
3075 HIGHLAND PKWY STE 200
DOWNERS GROVE, IL 60515

EQUAL EMPLOYMENT OPPORTUNITY
2018 EMPLOYER INFORMATION REPORT
INDIVIDUAL ESTABLISHMENT REPORT - TYPE 4

SECTION C - TEST FOR FILING REQUIREMENT

1-Y-2-Y-3-Y DUNS NO.:10297785 EIN :311347835

SECTION E - ESTABLISHMENT INFORMATION
NAICS: 424890 Other Chemical and Allied
Products Merchant Wholesalers

SECTION D - EMPLOYMENT DATA

JOB CATEGORIES	HISPANIC OR LATINO		NOT-HISPANIC OR LATINO										OVERALL TOTALS		
	MALE	FEMALE	***** MALE *****					***** FEMALE *****					AMERICAN INDIAN OR ALASKAN NATIVE	TWO OR MORE RACES	
			WHITE	BLACK (OR AFRICAN AMERICAN)	NATIVE AMERICAN	ASIAN	AMERICAN INDIAN OR ALASKAN NATIVE	TWO OR MORE RACES	WHITE	BLACK (OR AFRICAN AMERICAN)	NATIVE AMERICAN	ASIAN			
EXECUTIVE/IN SPECIALTIES & MGMT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROFESSIONALS	0	0	15	0	0	0	0	0	0	3	2	0	0	0	20
TECHNICIANS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
SALES WORKERS	0	0	7	0	0	0	0	0	0	1	0	0	0	0	1
ADMINISTRATIVE SUPPORT	0	0	4	0	0	0	0	0	0	3	0	0	0	0	10
CRAFT WORKERS	0	0	1	0	0	0	0	0	0	10	1	0	0	0	15
OPERATIVES	0	0	24	3	0	0	0	0	0	0	0	0	0	0	1
LABORERS & HELPERS	0	0	21	4	0	0	0	0	0	0	0	0	0	0	27
SERVICE WORKERS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	26
TOTAL	0	0	72	7	0	0	0	0	0	0	0	0	0	0	0
PREVIOUS REPORT TOTAL	0	0	76	8	0	0	0	0	0	19	3	0	0	0	101

SECTION F - REMARKS