

Univar Solutions USA LLC.
8201 S. 212th
Kent, WA 98032-1994
USA

T 253-872-5040
F 253-572-5041
www.univarusa.com



February 12, 2025

Bay Area Clean Water Agencies

RE: Bid for Sodium Hydroxide, BACC Bid No. 12-2025

To Whom it may concern:

Univar Solutions USA LLC. is pleased to offer a price quote on your ITB due Thursday, February 20, 2025, and has done so on the attached required paperwork.

Our contact information for all things bid and contract related, as well as the information for your local branch, is also attached.

We look forward to hearing the results of your request – we have included a self-addressed, stamped envelope for the bid tabulations.

Thank you,

Jennifer Perras

Sr. Municipal Bid Specialist
Western Region
Univar Solutions USA LLC.
Muniteam-west@univarsolutions.com
www.univarsolutions.com

Please Note: Where applicable, any State, Federal or other appropriate taxes and/or the California Mill Assessment will appear as separate line items on any invoices from Univar. If Univar's offer (pricing) was inclusive of these charges – they will be backed out of the "product" line item and shown as their own line item(s) at the time of billing.

Please Note: Cooperative Purchasing/Contract Piggy-Back Clauses: Unless otherwise checked "yes" within the attached offer, it is Univar's standard policy NOT to agree to/participate in Cooperative Purchasing but rather to work with each individual agency and reach a pricing agreement that is based on their needs and is advantageous for both parties. Unless otherwise noted within the attached offer – pricing within is only applicable for the locations (and any potential locations) listed within these bid documents.



CERTIFICATE OF SECRETARY

I, Jumoke Onibokun, hereby certify that:

1. I am the duly elected, qualified and acting Assistant Secretary of Univar Solutions USA LLC, a Washington Limited Liability Company (the "Company"), and am a custodian of the corporate records of the Company and am familiar with the matters herein certified.
2. The below list of persons are authorized to execute, for and on behalf of the Company, written municipal bids or municipal proposals for the sale of other disposition of products up to \$2.5 million handled by the Company.

Shawnasey McCarthy- Municipal Commercial Manager

Victoria Meakim - Municipal Specialist

Roise Holiday-Henry- Municipal Specialist

Jennifer Perras – Sr. Municipal Specialist

Shelley Riggle - Municipal Specialist

Stacy Ziegler- Municipal Specialist

Raven Claudio - Municipal Specialist

Ileana Caballero – Municipal Specialist

IN WITNESS WHEREOF, I have executed this Certificate of Secretary of the Company this 4th day of January 2024.

DocuSigned by:

Jumoke Onibokun

E78147ZEB84FA7D

Jumoke Onibokun, Assistant Secretary

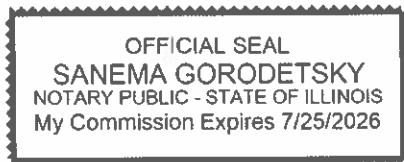
State of Illinois)

)

County of DuPage)

This Certificate of Secretary was signed and sworn before me on this 4th day of January 2024 by Jumoke Onibokun, Assistant Secretary of Univar Solutions USA LLC.

Seal



DocuSigned by:

Sanema Gorodetsky

EB3185C32E35401

Sanema Gorodetsky

Notary Public

My commission expires July 25, 2026

Univar Solutions USA LLC.
2461 Crocker Circle
Fairfield, CA 94533



T 408-435-8700
F 408-435-1735
800-659-5908
www.univarsolutions.com

GENERAL INFORMATION

Regular Office Hours during which orders may be placed:

Monday – Friday 7:00 am – 5:00 pm (PST)

In case of an emergency during non-business hours:

For Non-Chemical Emergencies:

After-hours emergency – 24-hour response:

Jennifer Bernhard - (650) 216-8909 (cell)
Brian Wills- (650) 670-7267 (cell)
CS Afterhours/emergency number: (480)-573-4726 **must leave voicemail.**

For Chemical Related Emergencies: ChemTrec: (800) 424-9300

Names, telephone/FAX numbers of those responsible for taking orders and initiating delivery:

Office Phone:	(855) 785-9499		
Office Fax:	(408) 435-1735		
Customer Service:	(855) 785-9499	Custsvc-la@univarsolutions.com	***NEW EMAIL***
	(480) 573-4707		

For anything pertaining to bids:

Please send all bid packets/documents to:
(Unless otherwise specified)

Univar Solutions USA LLC.
Attn: WER Muni Team
8201 S. 212th
Kent, WA 98032-1994

Contacts: muniteam-west@univarsolutions.com

Jennifer Perras
Sr. Municipal Specialist
Phone: (253) 872-5040
Fax: (253) 872-5041
Jennifer.perras@univarsolutions.com

Roise Holiday
Municipal Specialist
(253) 872-5068
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Roise.Holiday@univarsolutions.com

Stacy Ziegler
Municipal Specialist
(253) 872-5023
(253) 872-5041
Stacy.ziegler@univarsolutions.com

Shawnasey McCarthy
Municipal Business Manager
(253) 872-5052
(253) 872-5041
Shawnasey.mccarthy@univarsolutions.com

Remittance Address:

Univar Solutions USA LLC.
62190 Collections Center Drive
Chicago, IL 60693-0621
Please include remit information

Standard Payment Terms:

Net 30 days

Mission Statement

Univar sets out to be the preferred quality partner for the distribution of chemicals and services. We combine economic success with social and environmental responsibility.

Vision Statement

Be the benchmark of excellence.

Quality Policy

Univar USA Inc. is committed to the success of our customers and supplier/partners by providing value-added products and services that consistently meet requirements. In the spirit of innovation, management encourages full employee participation in the continuous review and improvement of Univar's business processes and its total quality process.

Statement of Core Values

- *Safety: Safety is the first priority, the most important aspect of our work.*
- *Continuous Improvement: We will improve results for all our stakeholders by doing the right things better every time.*
- *Employees: We respect and value every employee and are committed to support and develop each other personally and professionally.*
- *Environment: We are committed to protecting the health and well being of our employees, our customers, the community and the environment.*
- *Ethics: We treat every individual in our business and personal practices ethically with integrity and honesty.*
- *Leadership: Each of us strives to lead and motivate by example and consistently live up to these core values. We coach, train, develop and empower employees to reach their full potential.*



**Univar Solutions USA Inc.
Supplier Information
Company Overview**

Univar is a leading global distributor of industrial and specialty chemicals, with an extensive network of over 260 distribution facilities in North America, Europe, the Asia-Pacific region, and Latin America, and additional sales offices in Eastern Europe, the Middle East, and Africa.

We serve over 115,000 customers in more than 115 countries, representing nearly every major industry and a highly diverse set of end markets.

We source chemicals from more than 3,500 producers, including the premier global chemical manufacturers, and distribute more than 4,500 chemical products in over 110,000 stock keeping units.

In addition to our vast product offering, we provide important value-added services for our customers and suppliers, including:

- Product availability and inventory management
- Product specification and technical expertise
- Blending and mixing
- Repackaging and labeling
- Just-in-time delivery
- Vendor rationalization programs
- Waste management

Our scale, geographic reach, diversified distribution channels, industry expertise, and comprehensive product portfolio enable us to develop strong, long-term relationships with our suppliers and to provide a single-source solution for our customers.

As a world leader in chemical distribution, Univar is committed to being a responsible corporate citizen with a global focus on safety, health, the environment, and sustainability.



Univar Solutions USA Inc. Quality Assurance Statement

Univar USA Inc. ("Univar") offers this statement in regards to those quality measures it takes to provide quality products to you, its customer.

- Univar provides products that meet the manufacturer's specifications.
- Univar retains packaging samples and quality-related documents in accordance with its record retention program, which specifically calls for the retention of FDA regulated samples, and quality-related documents for three (3) years and EP samples and quality-related documents for six (6) years.
- Under Univar's Management of Change process, Univar forwards notices from a product's manufacturer related to ingredients, changes in processing sites, and manufacturing processes in a timely manner.
- Univar has a formalized recall process and provides notice of any known recalls or other matters that come to its attention that may directly or indirectly impact a product.
- Univar's quality control, employee training, and Safety, Health & Environmental programs meet industry standards.
- Univar develops, and maintains operational plans to meet, all federal, state, and local laws, rules, and regulations related to the packaging, storing, and distribution of products.
- Univar has facilities in the U.S. that are ISO 9001:2008 registered, including Univar's corporate office.
- Univar's facilities that handle FDA regulated product meet FDA cGMP standards.
- Univar's computer systems maintain various security controls to ensure proper management of information.

For food grade and pharmaceutical grade products:

- Univar treats FDA products under cGMP standards.
- Univar maintains strict laboratory controls, including Out of Specification ("OOS").
- Univar has a formal complaint process for all FDA regulated products.
- Univar performs bi-annual audits on its food grade packaging facilities to ensure quality and safety.
- Univar FDA packaging facilities and processes meet 21 CFR Part 210.
- Univar packages, stores, and transports under cGMP standards.
- Univar provides a Certificate of Analysis ("COA") with each shipment.
- Univar performs stability testing on all FDA Univar-packaged products.
- Univar maintains master files and individual batch files for all lots of FDA Univar-packaged products allowing full traceability.
- Univar assigns unique lot numbers and sequential numbers to its FDA Univar-packaged products.

Univar USA Inc



**Univar Solutions USA Inc.
Delivery & Supply Assurance**

In the event of an emergency situation such as a hurricane or other natural disaster, Univar's municipal water and wastewater accounts are given priority service over industrial customers.

Univar USA, Inc., has 124 locations across the US with thousands of trucks, 39 million gallons of bulk storage and over 10 million square feet of warehouse storage.

Our trucks are equipped with power and do not need electricity to deliver.

Our drivers are trained each year in spill control and containment, hazardous communication and modules of the Hazardous Waste Operations and Emergency Response Standard (HAZWOPER).

ADDENDUM NO. 1
REQUEST FOR BIDS
BAY AREA CHEMICAL CONSORTIUM (BACC) BID NO. 12-2025
FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE
Addendum Issue Date: February 16, 2025

TO ALL BIDDERS: The purpose of this Addendum is to make changes, additions, deletions, revisions, and clarifications to the bid mentioned above. The changes incorporated in the Addendum shall be considered as a part of the document and shall supersede, amend, add to, and/or subtract from those conditions shown in the original bid.

Acknowledgement: Bidders must acknowledge receipt of any and all Addenda in the space provided on the Standard Agreement of the bid document. Failure to do so may subject the Bidder to disqualification. All requirements of the bid documents remain unchanged except as cited herein.

ADDENDUM ITEMS:

- 1) Section / Page:** Section III – 1 Estimated Annual Quantities / page 31
Estimated Annual Quantities for the City of Stockton are **CORRECTED**
Revised Section III-1 Estimated Annual Quantities / page 31 is attached.

Bid opening date of February 20, 2025 remains unchanged.

END OF ADDENDUM NO. 1

BAY AREA CHEMICAL CONSORTIUM
ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2025/2026
BID NO. 12-2025

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
Sodium Hydroxide 20% (Caustic)	dry ton	8	23
<u>Marin Sonoma</u>			
County of Sonoma	dry ton	0	23
		0	23
<u>Sacramento</u>			
City of Sacramento	dry ton	8	0
		8	0
Sodium Hydroxide 25% (Caustic)	dry ton	862	1,351
<u>Central Valley</u>			
City of Stockton	dry ton	110	325
City of Turlock	dry ton	53	0
		163	325
<u>Marin Sonoma</u>			
Napa Sanitation District	dry ton	0	70
		0	70
<u>Peninsula</u>			
City of San Mateo	dry ton	0	450
		0	450
<u>Sacramento</u>			
City of Roseville	dry ton	0	500
City of Sacramento	dry ton	42	0
El Dorado Irrigation District	dry ton	41	0
Nevada Irrigation District	dry ton	144	0
Sacramento County Water Agency	dry ton	100	0
		327	500
<u>South Bay</u>			
City of Sunnyvale	dry ton	0	6
		0	6
<u>Tri Valley</u>			
Zone 7 Water Agency	dry ton	372	0
		372	0

BAY AREA CHEMICAL CONSORTIUM

REQUEST FOR BIDS

BID NO. 12-2025

FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE

BID DUE DATE: 4:00 P.M. PT, Thursday, February 20, 2025

BID OPENING DATE: 4:00 P.M. PT, Thursday, February 20, 2025

**Coordinating Agency:
Bay Area Clean Water Agencies**

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**NOTICE INVITING SEALED BIDS
FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE
BAY AREA CHEMICAL CONSORTIUM (BACC)
BID NO. 12-2025**

The Bay Area Chemical Consortium (BACC), a cooperative group of public agencies, is seeking competitive sealed bids for the supply and delivery of SODIUM HYDROXIDE. All sealed bids to be considered for this solicitation must be received via our electronic bid platform <https://bacwa.org/about-bacc/> by **4:00 P.M. PT, Thursday, February 20, 2025**. Bids received after said date and time will not be considered under any circumstances. Bids submitted by mail or by facsimile will not be accepted. BACC and its member agencies reserves the right to reject any and all bids and to waive informalities and immaterial irregularities or technical defects in the bids received.

For additional information or any questions concerning this bid, use the public Q&A Forum in our electronic bid system.

SECTION I

BAY AREA CHEMICAL CONSORTIUM

GENERAL

FOR BID NO. 12-2025

SODIUM HYDROXIDE

**BAY AREA CHEMICAL CONSORTIUM
REQUEST FOR BIDS
FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE
BID NO. 12-2025**

Sealed bids will only be received electronically via our electronic bid platform <https://bacwa.org/about-bacc/> no later than 4:00 P.M. PT, Thursday February 20, 2025.

1. GENERAL PROVISIONS

The Bay Area Chemical Consortium (BACC) is a cooperative group of public agencies each individually established under the laws of the State of California. For this particular bid solicitation, the participating member agencies include those listed in Section III-1, Estimated Annual Quantities. These participating BACC agencies, acting collectively through their authorized agents, are seeking competitive sealed bids for the supply and delivery of SODIUM HYDROXIDE.

Sealed bids will only be received electronically via our electronic bid platform <https://bacwa.org/about-bacc/> no later than 4:00 P.M. PT, Thursday February 20, 2025. Bids received after said date and time will not be considered under any circumstances.

BACC and its member agencies reserves the right to reject any and all bids and to waive informalities and immaterial irregularities or technical defects in the bids received.

If you have any questions regarding this bid, please contact the BACC Coordinators via the electronic bid platform <https://bacwa.org/about-bacc/> Q&A forum. Preliminary bid results will be available via our electronic bid platform shortly after the opening date and time.

2. INSTRUCTIONS TO BIDDERS

To receive consideration, bids must be made in accordance with the following instructions:

2.1 Bid Contract Documents

Bids must be submitted only using the forms provided in Section IV, Bid Contract Documents that includes the following: **Bid Form**, **Standard Agreement**, and **Non-Collusion Affidavit**, collectively, the bid contract documents. Bidder must submit bids price per unit of measure as specified via the electronic bid platform <https://bacwa.org/about-bacc/>. Do not submit the Worksheet. Bid prices submitted on Worksheet will NOT be accepted. All items in the bid contract documents must be filled out completely, signed and dated. The bid contract documents may be rejected if they show any omissions, alterations of form, the addition

of information not requested, a conditional bid, or irregularities of any kind. A complete bid submittal must include all of the following components of the bid contract documents:

- A completed and signed **Bid Form**, including all the attachments requested;
- A fully executed **Standard Agreement**, including references and acknowledgement of receiving any and all addenda, with any deviations duly noted;
- A fully executed **Non-collusion Affidavit**.
- The information required by Section 2.21 as referenced in the Bid Form.
- Name and address of any Third Party Hauler as required by Section 2.5 and the Bid Form, as well as the affidavit referenced in the Bid Form.

Bidder must submit bids price per unit of measure as specified via the electronic bid platform <https://bacwa.org/about-bacc/> (Line Items section).

2.2 Estimated Quantity

The quantities indicated are estimates of anticipated usage for a 12-month period and are given for informational purposes only. Nothing in these estimated annual quantities must be construed as obligating any participating BACC agency to purchase specific quantities, as these quantities may vary depending on actual operating conditions and demands during the contract term. All participating BACC agencies reserve the right to purchase any volume of the chemical listed, at the contract price, regardless of stated estimates of quantities. No price adjustments will be allowed as a result of an increase or a decrease in the quantity purchased. For this particular bid solicitation, the estimated annual chemical quantity of each participating member agencies is listed in Section III-1, Estimated Annual Quantities.

2.3 Delivery Locations

The participating BACC agencies are grouped according to their location by relative geographic region. The bidder must quote uniform bid prices for deliveries made to each of the distinct geographic regions. For this particular bid solicitation, the distinct geographic regions for each agency are defined in Section III-1, Estimated Annual Quantities, as well as in Section III-2, Delivery Details.

2.4 Bid Pricing

All bids submitted must include a base unit price, FOB destination, for the chemical for each geographic region per paragraph 2.3 Delivery Locations. Bidders shall provide bid prices via the electronic bid platform <https://bacwa.org/about-bacc/> including all costs associated with providing and delivering the chemical to the agency's facility, including materials, labor, equipment, transportation, insurance, overhead, profit, and all applicable taxes except sales tax in effect at the time of delivery. Bids qualified by additional or conditional charges such CPI, escalators, fuel surcharges, or transportation charges between the supplier and the final delivery points will not be allowed.

BACC agencies that use a chemical for treating water for resale may be exempt from paying sales tax, and it will be the responsibility of each BACC agency to notify the successful bidder if some or all of their purchases will be exempt from sales tax per paragraph 3.6 Taxes.

Bid prices must be based on bulk deliveries amount as specified via the electronic bid platform <https://bacwa.org/about-bacc/> . Bids that do not include unit prices for bulk deliveries to each geographic region specified on the electronic bid platform will be considered irregular and, at the option of BACC and the participating BACC agencies, may be eliminated from further consideration. For bulk deliveries of less than this specified amount, the bidder may, at their option, assess additional charges for “short loads” unless specific requirements for smaller deliveries are described in paragraph 3.7 Delivery Requirements. Any additional “short load” charges must be shown by the bidder as a specific deviation on the bid contract documents. Bidders and/or third party haulers will not be allowed to refuse to make “short load” deliveries.

Any optional item will be shown as a separate line item in the electronic bid platform <https://bacwa.org/about-bacc/> and bidders may, at their option, submit unit prices for the optional item. Bids that do not include unit prices for optional item will not be considered irregular and therefore such bids will not be rejected for that reason.

If participating BACC agencies require non-bulk deliveries in containers such as buckets, barrels, or totes, it will be shown as a separate line item in the electronic bid platform <https://bacwa.org/about-bacc/> . Bidders may, at their option, submit unit prices for deliveries in buckets, barrels, or totes. Bids that do not include unit prices for buckets, barrels, or totes will not be considered irregular and therefore such bids will not be rejected for that reason. If none of the participating BACC agencies require non-bulk deliveries in containers such as buckets, barrels, or totes, the electronic bid platform <https://bacwa.org/about-bacc/> will not include spaces to enter bid prices for such non-bulk deliveries in containers such as buckets, barrels, or totes, however, if a participating BACC agency later decides that they need deliveries in containers, bidders may, at their option, negotiate with the BACC agency to determine a price for deliveries in containers such as buckets, barrels, or totes.

2.5 Bidder Qualifications

A qualified bidder is one determined by BACC and the participating BACC agencies to meet standards of business competence, reputation, financial ability, and product quality. A responsive bidder is a firm/person who has submitted a bid that conforms in all material respects to the terms and conditions, the specifications of the chemical, and any other requirement of the bid instructions. A responsible bidder is a firm/person who has the capability in all aspects to perform full contract requirements, and who has the integrity and reliability that will assure good faith and specific performance. Bidders that intend to utilize a third-party hauling company for completing some or all of their deliveries must indicate the name and contact information of the third-party hauling company on the Bid Form. Before submitting a bid, the bidder must carefully examine and read all parts of the bid contract documents and be fully informed as to all existing conditions and limitations. It should be noted that, upon selection and approval of the successful bidder, the entire contents of the bid contract documents will become part of the full contract between the participating BACC agency and successful bidder (see paragraph 3.5 Purchase Orders / Contracts).

2.6 Authorized Signatory of Bid Contract Documents

The person signing the submitted bid must be fully authorized to represent and legally bind the bidding company to the terms and conditions described herein. A corporate officer must sign bids by corporations in the corporate name. The State of incorporation must be written in below the corporate name. Bids by partnerships must be signed in the partnership's name and signed by a partner with his/her title shown.

2.7 References

The bidder must submit with the bid a list of a minimum of three references that have purchased similar chemicals and services from the bidder. The bidder must provide the company or agency name, contact name, and telephone number for each reference. Whenever possible, bidders should provide references for customers from the same geographic regions as the participating BACC agencies. Bidders may provide references from BACC agencies. These references must be shown on the Standard Agreement contained herein.

2.8 Bid Submittal

Electronic bids will only be received via the electronic bid platform <https://bacwa.org/about-bacc/> by no later than 4:00 P.M. PT, Thursday, February 20, 2025. Electronic bids shall contain all required attachments and information. Bidders must submit bids price per unit of measure as specified via the electronic bid platform <https://bacwa.org/about-bacc/> (Line Item section). Bidders are cautioned that failure to comply may result in non-acceptance of the bid. Bids received after said date and time will not be considered under any circumstances. BACC will not be responsible for any delays or transmission errors. Bidder accepts all risks of late delivery of electronic bids. It is the bidder's responsibility to ensure that bid submitted is received by the electronic bid platform <https://bacwa.org/about-bacc/> prior to scheduled bid opening. Any attachment will remain sealed and will not be opened until the appointed bid opening date and time. Bidders not receiving confirmation receipt should contact the electronic bid platform vendor <https://bacwa.org/about-bacc/> to make sure that their electronic submittal has gone through.

2.9 Modification, Addenda, and Interpretations

Any explanation desired by the bidders regarding the meaning or interpretation of this particular bid solicitation including the bid contract documents must be requested via the electronic bid platform Q&A Forum at least five (5) business days prior to the time set for the bid opening. Any and all such interpretations or modifications must be in the form of a written request to the BACC Coordinator via the electronic bid platform Q&A Forum. All changes to this particular bid solicitation document including the bid contract documents initiated by the BACC Coordinator will be through written addenda and furnished to all bidders via the electronic bid platform. Addendum will be issued no later than 72 hours before bid opening. Any written addendum issued 72 hours before the date and time of the bid opening will become a part of the bid contract documents and must be acknowledged on the Standard Agreement form that each bidder submits. Failure to acknowledge any and all the addendum(s) on the Standard Agreement form may be cause for rejection of the bid.

2.10 Modification of Bids

A bidder may modify their bid via the electronic bid platform prior to the date and time of the bid opening. Modifications of any bid prices, terms and conditions must be electronically submitted via the electronic bid platform prior to the time of the bid opening. It shall be the responsibility of the respective bidder to determine if their written modification was received in time by electronic bid platform. BACC reserves the right to accept or reject any proposed modifications of the bid terms and conditions.

2.11 Withdrawal of Bids

Any bid may be withdrawn any time prior to the stated bid opening date and time (closing time) only via the electronic bid platform. The withdrawal request must be executed by the bidder or a duly authorized representative. The withdrawal of the bid does not prejudice the right of the bidder to file a new bid prior to the bid closing time. No bids may be withdrawn after the bid opening date and time.

2.12 Proposed Deviations from the Specifications by the Bidder

Any deviation from the specifications described herein or in a written addendum that is proposed by a bidder must be noted in detail on the Standard Agreement form, and a copy of the proposed specification must be attached to the Standard Agreement form at the time of submission. The absence of a proposed change in the specifications will hold the bidder strictly accountable to the specifications as described herein. If proposed deviations from the specifications are submitted, the bidder's name should be clearly shown on each document. Each BACC agency will be responsible for individually accepting or rejecting any proposed deviations from the described specifications.

2.13 Competency of Bidders

Before any contract is awarded, the bidder may be required to furnish a complete statement of financial ability and experience in performing the proposed services. In accordance with the provisions of the California Business and Professions Code and other regulations, the bidder must have and maintain current any and all necessary licenses or certificates.

2.14 Rejection of Bids

The BACC and/or its individual agencies reserves the right to reject any and all bids and reserves the right to waive a bid deficiency or reject a bid for any reason, including but not limited to the following: informalities, nonconforming, non-responsive or conditional bids, bids showing any alterations of form or erasures or irregularities of any kind, additional information not requested, incomplete bids, or bids not conforming with the instructions in any way. Bidders that plan to utilize a third-party hauling company that refused to deliver to one or more of the participating agencies in the past three (3) years will be rejected as non-responsive.

2.15 Opening Bids

A preliminary bid results showing apparent lowest bid will be available on the electronic bid platform shortly after the bid opening date / time.

2.16 Method of Award

Bids may be awarded to the lowest responsive and responsible bidder for each listed region meeting the specifications for bulk loads for the chemical. The lowest responsive bidder for this chemical will be determined for each region listed on the Bid Form. The bidder that meets the specifications and submits the lowest overall bid price for a particular region may be awarded the bid by the participating agencies in that region, assuming the bid is determined by BACC to be complete and in compliance with the bid requirements. The lowest overall bid price for each region will be determined by multiplying the estimated annual quantity for each participating agency within the particular region by the bid prices for the region, and adding up the aggregate cost. BACC has the right to delete terms or options from the bid contract documents, and reserves the right to reject any and all bids and to waive irregularities in said bids. The following is a non-inclusive list of criteria that must be used in award of the bid:

- a. Unit cost of the chemical
- b. Product specifications
- c. Warranties or standards of quality
- d. Capabilities to deliver product throughout the contract term
- e. Bidder's reputation, competency, and previous customer service record
- f. Third party hauling company's reputation, competency, and previous customer service record (if applicable)
- g. Fully executed non-collusion affidavit

2.17 Disqualification of Duplicate or Collusive Bidders

More than one bid proposal from an individual, a firm or partnership, a corporation or an association under the same or different names will not be considered. Reasonable grounds for believing that any bidder is interested in more than one bid for the bid contemplated will cause rejection of all bids in which such bidder is interested. If there is reason for believing that collusion exists among the bidders, any and all bids may be rejected. Bidders must execute and submit with their bid the Non-Collusion Affidavit included in the bid document.

2.18 Identical Bids

In the case of tied or identical bids corresponding to the proposed unit costs, BACC reserves the right to award the bid based on additional criteria. If a tied bid is not rejected for any reason as described in paragraph 2.16 Method of Award, then any additional costs described in the "Specific Deviations" such as short load adders, will be used to determine the lowest responsive bidder. If considering additional costs as described in the "Specific Deviations" still doesn't produce a winning bidder (i.e. if the tied bidders quote identical short load adder prices), then any exceptions or conditions described in the "Specific Deviations" will be considered in an effort to determine the lowest responsive bidder. If the latter still fails to produce a winning bidder, then BACC will draw lots by placing the names of the tied bidders in a hat and drawing a name. If drawing lots is deemed necessary, BACC will schedule a time to draw lots and the tied bidders will be invited to attend and witness the drawing.

2.19 Material Warranty

Before the bid is awarded and, if applicable, the bidder may be required to furnish a complete statement of the origin, composition and manufacture of any or all chemicals to be supplied, together with samples. The samples may be subjected to tests to determine their quality and fitness for the intended uses.

2.20 Bid Summary

Bid proposals will be summarized and reviewed with the BACC agencies following the bid opening. Bid summaries or tabulations will also be provided to the responsive bidders within ten (10) business days following the bid opening. After a careful review of the bids by each of the participating BACC agencies, bids may be awarded based on the criteria outlined in paragraph 2.16 Method of Award.

2.21 Manufacturer's Information

Bidders must submit with their bid contract documents the following:

- a. In accordance with Section 64590, Title 22 of the California Code of Regulations (CCR), no chemical or product shall be added to drinking water by a water supplier unless the chemical or product is certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI) 60-2005 (Drinking Water Treatment Chemicals—Health Effects). Certification shall be from an ANSI accredited product certification organization whose certification system includes the criteria for ensuring the chemical or product meets NSF/ANSI Standard 60 per Section 64590 of the CCR. Bidders must submit an affidavit of compliance from the ANSI accredited product certification organization. Bidders must include a statement by the chemical manufacturer, signed by an authorized representative on letterhead stationery, attesting to the affidavit's validity. In lieu of submitting an affidavit of compliance and a letter attesting to the affidavit's validity, a current printout from the ANSI accredited product certification organization is acceptable.
- b. A representative analysis of the chemical to be supplied, as prepared by a reputable outside laboratory or bidder's in-house laboratory if ISO certified.
- c. Name and address of the chemical manufacturer.
- d. Product Bulletin and Typical Properties.
- e. Safety Data Sheet (SDS).

3. SPECIAL INSTRUCTIONS TO BIDDERS

3.1 Chemical Requirements

The chemical to be provided under the terms and conditions of this bid must meet the bid specifications described in the pages that follow.

3.2 Safety Requirements

The bidder, their employees, subcontractors, and/or agents must conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety, and they must adhere to all State, Federal and Occupational Safety and Health Act (OSHA) safety standards, including compliance with any applicable State or local health order related to COVID-19 while they are on the premises of any BACC

agency. Furnished equipment, materials, and/or services must comply with all OSHA standards and regulations, and all applicable governmental laws and orders. The BACC agencies reserve the right to individually refuse any shipment, at their sole discretion, which cannot be unloaded using safe and proper techniques. Any such refusal must result in the return of the chemical at the successful bidder's sole expense. If requested by a participating BACC agency, the successful bidder and/or the firm providing transportation of the chemical shall submit to a safety briefing at the BACC agency's site before commencing deliveries to the respective BACC agency. The successful bidder and/or the firm providing transportation of the chemical are required to comply with the site specific safety requirements of each participating BACC agency. Bidders should be aware that some BACC agencies do not allow smoking on site. Site safety requirements will be available for review during the bid period upon request to the BACC Coordinator. In addition, if requested by a participating BACC agency, the successful bidder and/or the firm providing transportation of the chemical may be asked to review site safety materials and provide a signed acknowledgement of their receipt of the site safety materials.

3.3 Spillage

The successful bidder must be prepared to provide safety training on the safe handling and use of the chemical and emergency procedures in the event of a leak or spill. Should a chemical spill or leak result due to negligence, faulty equipment, or inferior packaging on the part of the bidder or their agents, the bidder and their agents must be responsible for cleaning the spill or leakage and for bearing any cost incurred due to spill or leakage clean-up. It must be the successful bidder's responsibility to effect immediate containment, clean-up, disposal, and restoration activities in accordance with the individual facility's requirements and any and all applicable laws and regulations. All material associated with such clean-up operations must be hauled away and lawfully disposed of at no charge to the agency where the delivery is being made. The property of the agency where the delivery is being made must not be used for such disposal. If the spill is NOT cleaned up, the agency will hire a certified hazardous material handling company to clean up the spill, and the costs incurred, including any fines or penalties which may be imposed by regulating authorities, will be charged to the bidder or deducted from amounts owed. Chemicals must stay in the possession of the bidder and must not be unloaded until accepted by the participating BACC agency. All chemicals must be delivered in accordance with Department of Transportation regulations.

3.4 Chemical Orders

All orders placed throughout the contract period, as defined in paragraph 4.11 Term of Contract, will be initiated separately by each participating BACC agency, and each BACC agency will be responsible for the coordination of all aspects of those orders with the successful bidder. Inquiries in reference to individual orders during the contract period must be directed to the appropriate BACC agency.

3.5 Purchase Orders / Contracts

Individual purchase orders, purchase agreements, and / or contracts will be issued to the successful bidder by each participating BACC agency, and all chemical sales must be invoiced separately to the respective BACC agency. Each BACC agency may require additional contract requirements specific to the agency which are not included in this bid document and bidders need to contact the agencies for specific details

and perform due diligence prior to submitting a bid. The contracted unit cost of the chemical is the awarded bid price. The successful bidder may seek a price increase for any nontrivial change requested by the participating BACC agency in the terms and conditions of the participating BACC agency's purchase order, purchase agreements, and / or contracts. The successful bidder may not change the price throughout the term of the contract unless by mutual written agreement between BACC agency and successful bidder per Section 4.4 Modification of Contract.

3.6 Taxes

Pursuant to the Sales and Use Tax Law, water treatment facilities are entitled to submit *Resale Certificates* to the California State Board of Equalization which exempt that utility from paying sales tax on any chemical purchased for the expressed use of producing a consumable water product. The participating BACC agencies that provide potable and/or recycled water to customers will be responsible for providing the successful bidder with these certificates or letter documenting their determination if the chemical they seek to purchase is exempt from sales tax. BACC agencies that do not notify the successful bidder that their agency is exempt from paying sales tax shall be invoiced with sales tax shown as a separate, itemized cost on the invoice. Chemicals purchased solely for the use in wastewater treatment and disposal facilities are subject to sales tax.

3.7 Delivery Requirements

Bidders are responsible for reviewing each of the listed delivery locations or geographic regions for each participating BACC agency and ensuring that their product can be delivered to each location prior to submitting a bid. Bidders that intend to utilize the services of a third party hauling company for some or all of their deliveries are responsible for ensuring that the hauler they have selected can and will deliver their product to each location listed in Section III-2, Delivery Details, and for submitting an affidavit pertaining to assurance with their bid. Failure to provide this assurance and submit an affidavit may be cause for rejecting their bid. Delivery bills of lading must be provided for each shipment. All bulk shipments must include a weight ticket from a certified weigh station in addition to a shipping manifest. Delivery times and dates must be coordinated between the successful bidder and each participating BACC agency on a schedule that meets the needs of the BACC agency, but at no time can a delivery occur more than seven (7) days after the order is placed unless the respective BACC agency requests a later delivery. No delivery can be made when a BACC agency representative is not on site. The successful bidder must notify the BACC agency of any anticipated late deliveries at least 24 hours in advance of the scheduled delivery time and date, unless delivery delays are the result of in-route transportation delays, then notification must be provided as soon as possible to inform the BACC agency of the anticipated delivery date and time. Persistently late or cancelled deliveries (defined as three or more over the contract period) may be used as a basis for contract termination. Failure to provide notice of late delivery as required by this section may also be a basis for contract termination. Any deliveries not meeting chemical quality, regulatory, safety, or delivery requirements will be returned to the successful bidder at no cost to the BACC agency, and must be re-delivered by the bidder within 48 hours of the unacceptable delivery.

3.8 Force Majeure

Any bidder that anticipates a workforce interruption, including due to COVID-19 restrictions, or a production shutdown that could affect delivery of the chemical must fax or e-mail notifications to all participating BACC agencies to notify them of the potential interruption in deliveries. A telephone call must also be made to each BACC agency as a follow-up notification.

3.9 Emergency Supply Plan Description

BACC requests that bidders provide a summary of plans addressing their ability to be able to continue to supply product in the event of an unexpected disaster or urgent emergency event.

3.10 Safety Data Sheet (SDS)

Bidders must submit a Safety Data Sheet (SDS) for the product offered with the bid. The successful bidder must provide a new SDS for the chemical with the first delivery or if the SDS is modified during the contract term.

3.11 Payments

Payments for all chemicals will be made individually by each participating BACC agency thirty (30) days after receipt of a complete and accurate invoice. BACC itself does not have any legal authority to conduct business and therefore cannot be held responsible for the financial arrangements made between each individual BACC agency and the successful bidder. Cash discounts for early remittance of payment must be stated on the invoice, if applicable. The bidder is responsible for submitting accurate invoices to each BACC agency. The BACC agencies are not responsible for late payments resulting from the submission of inaccurate invoices. If bidder continues to submit inaccurate invoices after being put on notice by the BACC agency, the contract between the bidder and the BACC agency may be terminated.

3.12 Legislative Impacts

In the event the legislative body of any BACC agency fails to appropriate funds for the purchase of the chemical, the respective BACC agency may terminate such contract without penalty and thereupon be released of further obligation.

3.13 Subcontracting

No portion of the bid award may be subcontracted to another chemical manufacturer or supplier without the prior written approval of all of the participating BACC agencies.

3.14 Laws and Regulations

All applicable State of California and Federal laws, City, County, and Special District ordinances, licenses, and regulations of all participating BACC agencies having jurisdiction must apply during the contract period, including any applicable State or local health order related to COVID-19.

3.15 Insurance

For services requiring the supplier's or their subcontractor's presence on any BACC agency property, the successful bidder must acquire and maintain at their expense for the duration of the term of the contract

the following insurance policies: Workers' Compensation, Employer's Liability, Commercial General Liability, Business Vehicle and Automobile Liability, and Contractor's Pollution Liability Insurance coverage from insurers either (i) admitted by the California Insurance Commissioner to do business in the State of California and rated no less than A.M. Best's rating of no less than A:VII, or (ii) authorized by the BACC agency's risk manager(s) or his/her designee at any time in his/her sole discretion, all relating to the supplier's services to be performed hereunder covering the BACC agency's risks. The minimum amounts of coverage, and the breadth of coverage, corresponding to the aforesaid categories of insurance per insurable event, must be as follows, however, the insurance limits available to each participating BACC agency, their officers, officials, employees, agents and volunteers as additional insured parties, shall be the greater of the minimum limits specified herein or the full limit of any insurance proceeds available to the named insured:

INSURANCE CATEGORY	MINIMUM LIMITS
Workers' Compensation Insurance	California Statutory Minimum
Employer's Liability Insurance	\$2,000,000 per accident, and \$1,000,000 per employee for bodily injury or disease.
Commercial General Liability Insurance	\$5,000,000 per occurrence for bodily injury, personal injury, and property damage.
Business Vehicle and Automobile Liability Insurance	\$2,000,000 per accident for bodily injury and property damage.
Contractor's Pollution Liability	\$1,000,000 per occurrence, \$2,000,000 policy aggregate.

Prior to commencement of any performance under the contract, the successful bidder must furnish to each participating BACC agency an original Certificate of Insurance, and copies of information or declaration pages for the insurance required with respect to evidence of all policies of insurance required as noted above. All policies of insurance must be endorsed to name the respective BACC agency, their officials, officers, employees, agents, and volunteers as additional insured parties. For any claims related to the contract, bidder's insurance coverage shall be primary insurance with respect to each participating BACC agency, their officials, officers, employees, agents and volunteers. Any insurance or self-insurance maintained by any BACC agency party, their officials, officers, employees, agents and volunteers shall be excess of the bidder's insurance and shall not contribute with it. The successful bidder will be responsible for contacting each participating BACC agency to ascertain the proper name or names of the agency specific entities to be included in the endorsements.

The successful bidder must also provide each participating BACC agency with a MSC-90 endorsement, required for transporters of hazardous materials and/or wastes.

The successful bidder hereby agrees to waive subrogation which any insurer of the bidder may acquire from vendor by virtue of the payment of any loss. Bidder agrees to obtain and provide to each BACC agency any endorsement that may be necessary to affect this waiver of subrogation. The Workers'

Compensation policy shall be endorsed with a waiver of subrogation in favor of each participating BACC agency for all work performed by the bidder, its employees, agents and subcontractors.

The successful bidder must maintain the required insurance at all times while the contract is in effect, and must replace any certificate, policy or endorsement which will expire prior to that date. All policies of insurance must be endorsed to provide the required insurance and must not be suspended, voided, reduced, canceled, or allowed to expire except on thirty (30) days prior written notice to each participating BACC agency. The Certificate of Insurance must have a cancellation statement worded as follows: *"Should any of the above described policies be cancelled before the expiration date thereof, the issuing company must mail thirty calendar (30) written notice to the Certificate holder named to the left."*

4. TERMS AND CONDITIONS

4.1 Indemnification

To the fullest extent allowed by law, the successful bidder and its employees, subcontractors, and agents shall defend, indemnify, and save and hold harmless each participating BACC agency, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of the successful bidder's or its personnel, employees, agents, or subcontractors' willful misconduct or negligent act or omission while engaged in the performance of services described in this bid document, except those matters arising from the participating BACC agency's sole negligence or willful misconduct. The parties intend that this provision shall be broadly construed.

This indemnification includes, without limitation, the payment of all penalties, fines, forfeitures, judgments, awards, decrees, attorney's fees, and related costs or expenses, and the reimbursement of any BACC agency, its officials, officers, employees, agents, and volunteers for all legal expenses and costs incurred by each of them.

The successful bidder's responsibility for such defense and indemnity obligations shall survive the termination or completion of the contract for the full period of time allowed by law. The defense and indemnity obligations of the contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in the contract.

If the successful bidder should subcontract all or any portion of the work to be performed under the contract, the successful bidder shall require each subcontractor to indemnify, hold harmless and defend each participating BACC agency and each of its officials, officers, employees, agents and volunteers in accordance with the terms of the preceding paragraphs.

4.2 Bid Protests

Any bid protest must be submitted electronically via email to the BACC Coordinator before 3:30 p.m. on the fifth (5th) business day following bid opening (jdymment@bacwa.org).

- a. The protest document must be provided as one PDF and must contain a complete statement of the basis for the protest and all supporting documentation and evidence.
- b. The party filing the protest must have actually submitted a bid for the chemical. A subcontractor of a party submitting a bid for the chemical may not submit a bid protest. A party may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.
- c. The protest must refer to the specific portion of the bid document which forms the basis for the protest.
- d. The protest must include the name, address and telephone number of the person representing the protesting party.
- e. The party filing the protest must concurrently transmit a copy of the protest document and any attached documentation to all other parties with a direct financial interest which may be adversely affected by the outcome of the protest. Such parties shall include all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
- f. BACC will give the bidder that is the subject of the protest five (5) business days after the receipt of the protest to submit a written response. The responding bidder shall submit the response to the protesting bidder concurrent with delivery to BACC.
- g. The procedure and time limits set forth in this paragraph are mandatory and are the bidder's sole and exclusive remedy in the event of bid protest. All protests and responses received after the time set forth herein will be rejected. The bidder's failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest.
- h. BACC will not be responsible for any delays or transmission errors. The protesting bidder accepts all risk of late delivery of electronic protests. It is the protesting bidder's responsibility to ensure that a submittal protest is received by the bid coordinator listed in this solicitation by the due date and time. Protesting bidders should contact the bid coordinator to make sure that their electronic submittal has gone through.
- i. If BACC determines that a protest is frivolous, the protesting bidder may be determined to be non-responsible and that bidder may be determined to be ineligible for future contract awards.

4.3 Equal Opportunity

The successful bidder must agree not to refuse the hire, discharge, promote, or to otherwise discriminate in the matters of compensation against any person otherwise qualified solely because of race, creed, sex, national origin, ancestry, or physical handicap. It must be a condition that any company firm or corporation supplying goods or services, must be in compliance with the Americans with Disabilities (ADA) Act of 1990. A certificate stating compliance with the ADA may be required, upon request, by any BACC agency.

4.4 Modification of Contract

This bid solicitation document including the bid contract documents, in conjunction with each BACC agency's purchase order, purchase agreement and / or contract, will constitute the entire contract between each BACC agency and the successful bidder. The contract may not be modified, altered, or

amended except by the mutual written agreement of the respective BACC agency and the successful bidder.

4.5 Common Language

Unless otherwise specified in this document, all words must be given their plain, common and ordinary meaning unless the context in which they are used clearly requires a different meaning. Words in the singular number include the plural, and in the plural include the singular. Additionally, words in the masculine gender include the feminine and the neuter, and when the sense so indicates, words of the neuter gender may refer to any gender.

4.6 Proprietary Information

All information included in any bid proposal that is of a propriety nature must be clearly marked as such. Each BACC agency must be held harmless from any claims arising from the release of proprietary information not clearly designated as such by the Bidder.

4.7 Patent Guarantee

The bidder must, with respect to any bidder's standard products, indemnify, defend and hold harmless each participating BACC agency, its employees and agents, from any and all costs and damages because of claims or litigation on account of infringement or alleged infringement of any letters patent or patent rights by reason of the sale or normal use of such products, provided that the bidder is promptly notified of all such actual or potential infringement suits, and is given an opportunity to participate in the defense of the participating BACC agencies.

4.8 Quality Control

The bidder's chemical may be inspected and/or sampled before, during, or after any delivery and tested to confirm compliance with all of the specifications. Persistent clogging, deliveries containing significant amounts of debris, and/or chemical not meeting the technical specifications will be considered to be deficiencies. If deficiencies are detected, the chemical will be rejected and the bidder will be required to remove and replace any and all of the chemical and clean the associated tanks and piping that are contaminated by a delivery that is determined to be deficient, at no cost to the participating BACC agency. If the bidder fails to remove and replace the deficient chemical in a timely manner after being notified of the problem by the participating agency, the participating agency may remove and dispose of the contaminated chemical and clean the chemical storage tank or tanks and the associated piping all at the bidder's expense. Payment for the delivered chemical will not be made until the defects are corrected and the chemical is properly replaced and accepted. Repeat failures to comply with the specifications must constitute grounds for termination of the contract.

4.9 Term of Contract

The term of the contract between the respective BACC agency and the successful bidder will be twelve (12) months commencing July 1, 2025, and expiring June 30, 2026, with an option to extend the contract on a year-to-year basis, not to exceed three (3) yearly renewals if conditions and service are satisfactory to both the respective BACC agency and the successful bidder. The price for any succeeding periods of

service shall be determined by negotiation between the respective BACC agency and the successful bidder.

4.10 Good Faith Bidding and Contracting

The participating BACC agencies listed on this bid solicitation are bidding in good faith and have agreed not to extend an existing bid in lieu of contracting with the lowest responsive bidder. However, nothing in this bid solicitation shall prevent a BACC agency from rejecting all bids and separately procuring the services they require, if deemed in the best interest of their respective agency.

4.11 Termination of Contract

Any BACC agency may terminate their contract with the successful bidder for any reason by providing the successful bidder written notice of termination, and specifying the effective date thereof, at least thirty (30) days before the effective date. Termination of the contract by one BACC agency does not affect the contractual relationship between the successful bidder and any other BACC agency.

4.12 Termination for Cause

In the event of a breach of any term or provision of the contract by the successful bidder, a BACC agency may terminate the contract with respect to supply of chemicals for that agency by providing the successful bidder with written notice of such termination, and specifying the effective date thereof, at least ten (10) days before the effective date. Termination of the contract by one BACC agency does not affect the contractual relationship between the successful bidder and any other BACC agency.

4.13 Effect of Termination

Any termination by a BACC agency, with or without cause, must not affect the validity of the contract between the successful bidder and any other BACC agency, nor must such action affect any rights, remedies, or obligations of the successful bidder or any other BACC agency.

4.14 Assignment

The successful bidder must under no circumstances assign the contract without the prior written consent of each participating BACC agency. Any assignment, or attempt at assignment, made without such consent of each participating BACC agency may be considered a breach of contract.

4.15 Competitiveness and Integrity

The participating BACC agencies have assigned control of the acquisition process to the BACC coordinating agency identified in the *Notice Inviting Sealed Bids* of this document, to prevent biased evaluations and to preserve the competitiveness and integrity of such acquisition efforts. Bidders are to direct all communications regarding this bid to the designated BACC Coordinator, unless otherwise specifically noted, or unless approved in writing by the BACC Coordinator. Attempts by bidders to circumvent this requirement will be viewed negatively and may result in rejection of the offending bidder's offer. The BACC Coordinator may refer communications to other participating BACC agencies for clarification.

-END OF SECTION-

SECTION II

**BAY AREA CHEMICAL CONSORTIUM
PRODUCT TECHNICAL SPECIFICATIONS
FOR BID NO. 12-2025
SODIUM HYDROXIDE**

PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 20% Solution

1. Typical Analysis:

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt %	19	21
Sodium Oxide, Na ₂ O	Wt %	14.37	16.28
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt %	0	.15
Sodium Chlorate, NaClO ₃	PPM	0	<1
Sodium Sulfate, Na ₂ SO ₄	PPM	0	80
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.2124	1.2344

- Sodium hydroxide for wastewater treatment applications is allowed to have up to 9 mg/L iron and up to 3 mg/L nickel.

2. Product Specifications:

- a. The Sodium Hydroxide (NaOH) shall be in liquid form and shall conform to the current version of the American Water Works Association's Standard for Caustic Soda B501-19 and to the Water Chemicals Codex, 1982; except as modified or supplemented herein.
- b. For all potable water treatment (drinking water) applications the liquid Sodium Hydroxide supplied shall be tested and certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) Drinking Water Treatment Chemicals – Health Effects. The NSF certification for the Sodium Hydroxide (NaOH) bid must be current on the date of the bid submittal.
- c. It is the responsibility of the Bidder to inform the participating BACC Agency, within 24 hours from the time of verbal or written notification, that NSF certification has been revoked or lapsed. For all potable water treatment (drinking water) applications, the loss of NSF certification shall constitute sufficient grounds for immediate termination of the contract.
- d. Bill of lading must clearly identify product delivered to be NSF 60 certified by stamp or type written statement – no handwritten notations will be accepted. Failure to provide clear identification of NSF product will result in rejection of the load at no cost to the participating BACC Agency.
- e. Billing weight is defined as delivery weight x percentage Na₂O (from lab report)/76.

3. Quality:

- a. The liquid Sodium Hydroxide (NaOH) to be delivered in conformity with this bid shall be 20% liquid solution, as specified herein. Caustic defined as "20% solution" must fall within the specified range of 19%-21% active ingredient to meet the requirements of this specification.
- b. The liquid Sodium Hydroxide (NaOH) shall contain no more than 5 mg/L iron and no more than 2 mg/L mercury and no more than 0.5 mg/L nickel. No exceptions to these limitations will be allowed for any sodium hydroxide provided for potable water treatment applications. However, for sodium hydroxide used for wastewater treatment applications, up to 9 mg/L for iron (Fe) and up to 3 mg/L for nickel (Ni) will be allowed as noted above. For wastewater treatment

applications, concentrations of iron (Fe) greater than 9 ppm maximum and nickel (Ni) greater than 3 ppm maximum, may cause problems for the customer and therefore may be cause to terminate the contract if any excursions of these concentrations limits for iron or nickel cannot be reduced by the successful Bidder in subsequent deliveries to the respective customer.

- c. The liquid Sodium Hydroxide (NaOH) shall be free from contaminating substances which could interfere with the normal operation of the customer's facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

4. Certificate of Analysis:

- a. A certificate of analysis prepared by a reputable outside laboratory or bidder's in-house laboratory if ISO certified shall be submitted for each liquid Sodium Hydroxide (NaOH) delivery. The certificate of analysis shall be based on a representative sample of the specific batch or lot of chemical currently being used to make deliveries. The certificate of analysis shall contain the following:

- Date of manufacture
- Date of delivery
- Shipper ID
- Sodium Hydroxide NaOH Wt %
- Sodium Oxide Na₂O Wt %
- Sodium Sulfate Na₂SO₄ PPM
- Sodium Chloride NaCl PPM
- Sodium Carbonate Na₂CO₃ Wt %
- Sodium Chlorate NaClO₃ PPM
- Iron Fe PPM
- Mercury Hg PPM
- Nickel Ni PPM
- Density @ 60° lbs/gal
- Specific Gravity

No deliveries will be accepted unless accompanied by the said certificate of analysis for the specific batch or lot of chemical delivered and the quality specifications as listed above.

- b. Charges for certificate of analysis shall be included in the bid price.
- c. Failure to supply the required certificate of analysis shall be sufficient cause to reject the load. A certificate of analysis that does not meet AWWA Standard B501 shall be cause to reject the delivery.
- d. One 200 mL sample of the delivered product shall be provided by the Bidder if requested by the customer either when the order is placed or at the time of delivery. In order to ensure these samples are representative of the chemical being delivered, the samples shall be drawn from the delivery truck at the time of delivery. Samples may be collected from any delivery, and the frequency upon which samples are collected will be entirely at the discretion of the customer. Samples will be collected at the unloading station, where containment and safety showers are provided. The customer will decide at what point during any delivery that they wish to collect a sample.

PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 25% Solution

1. Typical Analysis:

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt %	23	27
Sodium Oxide, Na ₂ O	Wt %	15.5	20.2
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt %	0	0.15
Sodium Chlorate, NaClO ₃	PPM	0	25
Sodium Sulfate, Na ₂ SO ₄	PPM	0	80
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.20	1.35

- Sodium hydroxide for wastewater treatment applications is allowed to have up to 9 mg/L iron and up to 3 mg/L nickel.

2. Product Specifications:

- The Sodium Hydroxide (NaOH) shall be in liquid form and shall conform to the current version of the American Water Works Association's Standard for Caustic Soda B501 and to the Water Chemicals Codex, 1982; except as modified or supplemented herein.
- For all potable water treatment (drinking water) applications the liquid Sodium Hydroxide supplied shall be tested and certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) Drinking Water Treatment Chemicals – Health Effects. The NSF certification for the Sodium Hydroxide (NaOH) bid must be current on the date of the bid submittal.
- It is the responsibility of the Bidder to inform the participating BACC Agency, within 24 hours from the time of verbal or written notification, that NSF certification has been revoked or lapsed. For all potable water treatment (drinking water) applications, the loss of NSF certification shall constitute sufficient grounds for immediate termination of the contract.
- Bill of lading must clearly identify product delivered to be NSF 60 certified by stamp or type written statement – no handwritten notations will be accepted. Failure to provide clear identification of NSF product will result in rejection of the load at no cost to the participating BACC Agency.
- Billing weight is defined as delivery weight x percentage Na₂O (from lab report)/76.

3. Quality:

- The liquid Sodium Hydroxide (NaOH) to be delivered in conformity with this bid shall be 25% liquid solution, as specified herein. Caustic defined as "25% solution" must fall within the specified range of 23%-27% active ingredient to meet the requirements of this specification.
- The liquid Sodium Hydroxide (NaOH) shall contain no more than 5 mg/L iron and no more than 2 mg/L mercury and no more than 0.5 mg/L nickel. No exceptions to these limitations will be allowed for any sodium hydroxide provided for potable water treatment applications. However, for sodium hydroxide used for wastewater treatment applications, up to 9 mg/L for iron (Fe) and up to 3 mg/L for

nickel (Ni) will be allowed as noted above. For wastewater treatment applications, concentrations of iron (Fe) greater than 9 ppm maximum and nickel (Ni) greater than 3 ppm maximum, may cause problems for the customer and therefore may be cause to terminate the contract if any excursions of these concentrations limits for iron or nickel cannot be reduced by the successful Bidder in subsequent deliveries to the respective customer.

c. The liquid Sodium Hydroxide (NaOH) shall be free from contaminating substances which could interfere with the normal operation of the customer's facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

4. Certificate of Analysis:

a. A certificate of analysis prepared by a reputable outside laboratory or bidder's in-house laboratory if ISO certified shall be submitted for each liquid Sodium Hydroxide (NaOH) delivery. The certificate of analysis shall be based on a representative sample of the specific batch or lot of chemical currently being used to make deliveries. The certificate of analysis shall contain the following:

- Date of manufacture
- Date of delivery
- Shipper ID
- Sodium Hydroxide NaOH Wt %
- Sodium Oxide Na₂O Wt %
- Sodium Sulfate Na₂SO₄ PPM
- Sodium Chloride NaCl PPM
- Sodium Carbonate Na₂CO₃ Wt %
- Sodium Chlorate NaClO₃ PPM
- Iron Fe PPM
- Mercury Hg PPM
- Nickel Ni PPM
- Density @ 60° lbs/gal
- Specific Gravity

No deliveries will be accepted unless accompanied by the said certificate of analysis for the specific batch or lot of chemical delivered and the quality specifications as listed above.

b. Charges for certificate of analysis shall be included in the bid price.

c. Failure to supply the required certificate of analysis shall be sufficient cause to reject the load. A certificate of analysis that does not meet AWWA Standard B501 shall be cause to reject the delivery.

d. One 200 mL sample of the delivered product shall be provided by the Bidder if requested by the customer either when the order is placed or at the time of delivery. In order to ensure these samples are representative of the chemical being delivered, the samples shall be drawn from the delivery truck at the time of delivery. Samples may be collected from any delivery, and the frequency upon which samples are collected will be entirely at the discretion of the customer. Samples will be collected at the unloading station, where containment and safety showers are provided. The customer will decide at what point during any delivery that they wish to collect a sample.

PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 30% Solution

1. Typical Analysis:

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt %	29	32
Sodium Oxide, Na ₂ O	Wt %	22.5	23.7
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt %	0	0.15
Sodium Chlorate, NaClO ₃	PPM	0	25
Sodium Sulfate, Na ₂ SO ₄	PPM	0	80
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.25	1.40

- Sodium hydroxide for wastewater treatment applications is allowed to have up to 9 mg/L iron and up to 3 mg/L nickel.

2. Product Specifications:

- The Sodium Hydroxide (NaOH) shall be in liquid form and shall conform to the current version of the American Water Works Association's Standard for Caustic Soda B501 and to the Water Chemicals Codex, 1982; except as modified or supplemented herein.
- For all potable water treatment (drinking water) applications the liquid Sodium Hydroxide supplied shall be tested and certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) Drinking Water Treatment Chemicals – Health Effects. The NSF certification for the Sodium Hydroxide (NaOH) bid must be current on the date of the bid submittal.
- It is the responsibility of the Bidder to inform the participating BACC Agency, within 24 hours from the time of verbal or written notification, that NSF certification has been revoked or lapsed. For all potable water treatment (drinking water) applications, the loss of NSF certification shall constitute sufficient grounds for immediate termination of the contract.
- Bill of lading must clearly identify product delivered to be NSF 60 certified by stamp or type written statement – no handwritten notations will be accepted. Failure to provide clear identification of NSF product will result in rejection of the load at no cost to the participating BACC Agency.
- Billing weight is defined as delivery weight x percentage Na₂O (from lab report)/76.

3. Quality:

- The liquid Sodium Hydroxide (NaOH) to be delivered in conformity with this bid shall be 30% liquid solution, as specified herein. Caustic defined as "30% solution" must fall within the specified range of 29%-32% active ingredient to meet the requirements of this specification.
- The liquid Sodium Hydroxide (NaOH) shall contain no more than 5 mg/L iron and no more than 2 mg/L mercury and no more than 0.5 mg/L nickel. No exceptions to these limitations will be allowed for any sodium hydroxide provided for potable water treatment applications. However, for

sodium hydroxide used for wastewater treatment applications, up to 9 mg/L for iron (Fe) and up to 3 mg/L for nickel (Ni) will be allowed as noted above. For wastewater treatment applications, concentrations of iron (Fe) greater than 9 ppm maximum and nickel (Ni) greater than 3 ppm maximum, may cause problems for the customer and therefore may be cause to terminate the contract if any excursions of these concentrations limits for iron or nickel cannot be reduced by the successful Bidder in subsequent deliveries to the respective customer.

c. The liquid Sodium Hydroxide (NaOH) shall be free from contaminating substances which could interfere with the normal operation of the customer's facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

4. Certificate of Analysis:

a. A certificate of analysis prepared by a reputable outside laboratory or bidder's in-house laboratory if ISO certified shall be submitted for each liquid Sodium Hydroxide (NaOH) delivery. The certificate of analysis shall be based on a representative sample of the specific batch or lot of chemical currently being used to make deliveries. The certificate of analysis shall contain the following:

- Date of manufacture
- Date of delivery
- Shipper ID
- Sodium Hydroxide NaOH Wt %
- Sodium Oxide Na₂O Wt %
- Sodium Sulfate Na₂SO₄ PPM
- Sodium Chloride NaCl PPM
- Sodium Carbonate Na₂CO₃ Wt %
- Sodium Chlorate NaClO₃ PPM
- Iron Fe PPM
- Mercury Hg PPM
- Nickel Ni PPM
- Density @ 60° lbs/gal
- Specific Gravity

No deliveries will be accepted unless accompanied by the said certificate of analysis for the specific batch or lot of chemical delivered and the quality specifications as listed above.

b. Charges for certificate of analysis shall be included in the bid price.

c. Failure to supply the required certificate of analysis shall be sufficient cause to reject the load. A certificate of analysis that does not meet AWWA Standard B501 shall be cause to reject the delivery.

d. One 200 mL sample of the delivered product shall be provided by the Bidder if requested by the customer either when the order is placed or at the time of delivery. In order to ensure these samples are representative of the chemical being delivered, the samples shall be drawn from the delivery truck at the time of delivery. Samples may be collected from any delivery, and the frequency upon which samples are collected will be entirely at the discretion of the customer. Samples will be

collected at the unloading station, where containment and safety showers are provided. The customer will decide at what point during any delivery that they wish to collect a sample.

PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 50% Solution

1. Typical Analysis:

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt %	48	52
Sodium Oxide, Na ₂ O	Wt %	37.7	40.4
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt %	0	0.30
Sodium Chlorate, NaClO ₃	PPM	0	25
Sodium Sulfate, Na ₂ SO ₄	PPM	0	80
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity at 20 deg. C		1.45	1.60

- Sodium hydroxide for wastewater treatment applications is allowed to have up to 9 mg/L iron and up to 3 mg/L nickel.

2. Product Specifications:

- The Sodium Hydroxide (NaOH) shall be in liquid form and shall conform to the current version of the American Water Works Association's Standard for Caustic Soda B501 and to the Water Chemicals Codex, 1982; except as modified or supplemented herein.
- For all potable water treatment (drinking water) applications the liquid Sodium Hydroxide supplied shall be tested and certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) Drinking Water Treatment Chemicals – Health Effects. The NSF certification for the Sodium Hydroxide (NaOH) bid must be current on the date of the bid submittal.
- It is the responsibility of the Bidder to inform the participating BACC Agency, within 24 hours from the time of verbal or written notification, that NSF certification has been revoked or lapsed. For all potable water treatment (drinking water) applications, the loss of NSF certification shall constitute sufficient grounds for immediate termination of the contract.
- Bill of lading must clearly identify product delivered to be NSF 60 certified by stamp or type written statement – no handwritten notations will be accepted. Failure to provide clear identification of NSF product will result in rejection of the load at no cost to the participating BACC Agency.
- Billing weight is defined as delivery weight x percentage Na₂O (from lab report)/76.

3. Quality:

- The liquid Sodium Hydroxide (NaOH) to be delivered in conformity with this bid shall be 50% liquid solution, as specified herein. Caustic defined as "50% solution" must fall within the specified range of 48%-52% active ingredient to meet the requirements of this specification.
- The liquid Sodium Hydroxide (NaOH) shall contain no more than 5 mg/L iron and no more than 2 mg/L mercury and no more than 0.5 mg/L nickel. No exceptions to these limitations will be allowed for any sodium hydroxide provided for potable water treatment applications. However, for

sodium hydroxide used for wastewater treatment applications, up to 9 mg/L for iron (Fe) and up to 3 mg/L for nickel (Ni) will be allowed as noted above. For wastewater treatment applications, concentrations of iron (Fe) greater than 9 ppm maximum and nickel (Ni) greater than 3 ppm maximum, may cause problems for the customer and therefore may be cause to terminate the contract if any excursions of these concentrations limits for iron or nickel cannot be reduced by the successful Bidder in subsequent deliveries to the respective customer.

c. The liquid Sodium Hydroxide (NaOH) shall be free from contaminating substances which could interfere with the normal operation of the customer's facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

4. Certificate of Analysis:

a. A certificate of analysis prepared by a reputable outside laboratory or bidder's in-house laboratory if ISO certified shall be submitted for each liquid Sodium Hydroxide (NaOH) delivery. The certificate of analysis shall be based on a representative sample of the specific batch or lot of chemical currently being used to make deliveries. The certificate of analysis shall contain the following:

- Date of manufacture
- Date of delivery
- Shipper ID
- Sodium Hydroxide NaOH Wt %
- As Sodium Oxide Na₂O Wt %
- Sodium Sulfate Na₂SO₄ PPM
- Sodium Chloride NaCl PPM
- Sodium Carbonate Na₂CO₃ Wt %
- Sodium Chlorate NaClO₃ PPM
- Iron Fe PPM
- Mercury Hg PPM
- Nickel Ni PPM
- Density @ 60°F lbs/gal
- Specific Gravity at 20 deg. C

No deliveries will be accepted unless accompanied by the said certificate of analysis for the specific batch or lot of chemical delivered and the quality specifications as listed above.

b. Charges for certificate of analysis shall be included in the bid price.

c. Failure to supply the required certificate of analysis shall be sufficient cause to reject the load. A certificate of analysis that does not meet AWWA Standard B501 shall be cause to reject the delivery.

d. One 200 mL sample of the delivered product shall be provided by the Bidder if requested by the customer either when the order is placed or at the time of delivery. In order to ensure these samples are representative of the chemical being delivered, the samples shall be drawn from the delivery truck at the time of delivery. Samples may be collected from any delivery, and the frequency upon which samples are collected will be entirely at the discretion of the customer. Samples will be collected at the unloading station, where containment and safety showers are provided. The customer will decide at what point during any delivery that they wish to collect a sample.

SECTION III – 1

**BAY AREA CHEMICAL CONSORTIUM
ESTIMATED ANNUAL QUANTITIES
FOR BID NO. 12-2025
SODIUM HYDROXIDE**

BAY AREA CHEMICAL CONSORTIUM
ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2025/2026
BID NO. 12-2025

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
Sodium Hydroxide 20% (Caustic)	dry ton	8	23
<u>Marin Sonoma</u>			
County of Sonoma	dry ton	0	23
		0	23
<u>Sacramento</u>			
City of Sacramento	dry ton	8	0
		8	0
Sodium Hydroxide 25% (Caustic)	dry ton	862	1,351
<u>Central Valley</u>			
City of Stockton	dry ton	110	325
City of Turlock	dry ton	53	0
		163	325
<u>Marin Sonoma</u>			
Napa Sanitation District	dry ton	0	70
		0	70
<u>Peninsula</u>			
City of San Mateo	dry ton	0	450
		0	450
<u>Sacramento</u>			
City of Roseville	dry ton	0	500
City of Sacramento	dry ton	42	0
El Dorado Irrigation District	dry ton	41	0
Nevada Irrigation District	dry ton	144	0
Sacramento County Water Agency	dry ton	100	0
		327	500
<u>South Bay</u>			
City of Sunnyvale	dry ton	0	6
		0	6
<u>Tri Valley</u>			
Zone 7 Water Agency	dry ton	372	0
		372	0

ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2025/2026

BID NO. 12-2025

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
Sodium Hydroxide 30% (Casutic)	dry ton	2,671	183
<u>Marin Sonoma</u>			
County of Sonoma	dry ton	13	0
		13	0
<u>North Bay</u>			
Contra Costa Water District	dry ton	2,658	0
West County Wastewater District	dry ton	0	16
		2,658	16
<u>Sacramento</u>			
El Dorado Irrigation District	dry ton	0	167
		0	167
Sodium Hydroxide 50% (Caustic)	dry ton	6,568	1,436
<u>Central Valley</u>			
City of Stockton	dry ton	0	155
		0	155
<u>East Bay</u>			
Alameda County Water District	dry ton	850	0
City of Hayward	dry ton	0	16
		850	16
<u>Marin Sonoma</u>			
County of Sonoma	dry ton	2,300	0
Marin Municipal Water District	dry ton	626	0
North Marin Water District	dry ton	76	0
		3,002	0
<u>North Bay</u>			
City of Antioch	dry ton	580	0
City of Martinez	dry ton	150	0
City of Pittsburg	dry ton	235	0
		965	0

ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2025/2026

BID NO. 12-2025

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
<u>Sacramento</u>			
Carmichael Water District	dry ton	100	0
City of Roseville	dry ton	900	875
El Dorado Irrigation District	dry ton	144	390
		1,144	1,265
<u>Tri Valley</u>			
Zone 7 Water Agency	dry ton	607	0
		607	0

SECTION III – 2

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
FOR BID NO. 12-2025
SODIUM HYDROXIDE**

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
BID NO. 12-2025
SODIUM HYDROXIDE**

The frequency of deliveries and typical delivery size are estimates of anticipated usage for a 12-month period and are given for informational purposes only and are not used in any calculations to determine the lowest overall bid (Section I, Paragraph 2.16 Method of Award).

<u>Per Region, Agency and Delivery Facility Name and Location</u>			<u>Frequency of Deliveries</u>	<u>Typical Delivery Size</u>
<u>CENTRAL VALLEY</u>				
City of Stockton				
Delta Water Supply Plant	11373 N. Lower Sacramento Road	Lodi	1x per month	4000 gal
Stockton Regional Wastewater Control Facility (Tertiary Plant)	3307 W. Highway 4 (John Turk Road)	Stockton	1-2x per month for 4-6 months in year, mostly in winter	4,000 gallons (combined for both 25% and 50%)
City of Turlock				
Well 38	2919 W Christoffersen Parkway	Turlock	weekly - bi weekly	405 gal
<u>EAST BAY</u>				
Alameda County Water District				
Blending Facility	1111 Mowry Ave	Fremont	1x every 2 weeks	4,000 gallons
Newark Desalination Facility	6833 Redeker Place	Newark	1x per month	4,000 gallons
Water Treatment Plant No. 2	42436 Mission Blvd.	Fremont	1-2x per week	4,000 gallons
City of Hayward				
Water Pollution Control Facility	3700 Enterprise Avenue	Hayward	Once per year	5,000 gallons
<u>MARIN SONOMA NAPA</u>				
County of Sonoma				
Airport/Larkfield/Wikiup Wastewater Treatment Plant	800 Aviation Blvd	Santa Rosa	Bi-monthly	800-1000 gallons - Sodium Hydroxide 30%
River Road Corrosion Control Facility	7945 River Road	Forestville	Once a week	3,800 - 4,000 gallons Sodium Hydroxide 50%
Sonoma Valley Wastewater Treatment Plant	22675 8th Street	Sonoma	Once every other month	5,000 gallons Sodium Hydroxide 50%
Wohler Corrosion Control Facility	9750 Wohler Rd	Forestville	Once a week	3,800-4000 gallons Sodium Hydroxide 50%
Marin Municipal Water District				
MMWD Bon Tempe	Filter Plant Road	Fairfax	24x per year	not less than 3,500 gallons
MMWD San Geronimo	330 San Geronimo Valley Road	Woodacre	34x per year	not less than 4,000 gallons
Napa Sanitation District				
Napa Sanitation District	1515 Soscol Ferry Road	Napa	Once per month	5,000 gallons

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
BID NO. 12-2025
SODIUM HYDROXIDE**

The frequency of deliveries and typical delivery size are estimates of anticipated usage for a 12-month period and are given for informational purposes only and are not used in any calculations to determine the lowest overall bid (Section I, Paragraph 2.16 Method of Award).

<u>Per Region, Agency and Delivery Facility Name and Location</u>				<u>Frequency of Deliveries</u>	<u>Typical Delivery Size</u>
North Marin Water District					
North Marin Water District	3015 Novato Blvd.	Novato		1x per month	4000 gallons
Stafford Lake Treatment Plant					
<u>NORTH BAY</u>					
City of Antioch					
City of Antioch Water Treatment Plant	401 Putnam Street	Antioch		weekly	4,000 gallons
City of Martinez					
City of Martinez Water Treatment Plant	3003 Pacheco Blvd	Martinez		1x per month	4,500 gallons
City of Pittsburg					
Pittsburg Water Treatment Plant	300 Olympia Drive	Pittsburg		2x a month	Full truck load 50,000 lbs
Contra Costa Water District					
Bollman Water Treatment Plant	2015 Bates Ave	Concord		approx 65 loads per year between 7:00 am and 2:00 PM	5,500 gallons
Brentwood Water Treatment Plant	3760 Neroly Road	Oakley		approx 40 loads per year	5,500 gallons
Randall-Bold Water Treatment Plant	3760 Neroly Road	Oakley		approx 180 loads per year	5,500 gallons
West County Wastewater District					
Water County Wastewater	2377 Garden Tract Road	Richmond		As needed	IBC totes (275 gallons)
<u>PENINSULA</u>					
City of San Mateo					
City of San Mateo WQCP	2050 Detroit Drive	San Mateo, CA		every 3-4 weeks	Full load
<u>SACRAMENTO</u>					
Carmichael Water District					
Bajamont Water Treatment Plant	3501 Bajamont Way	Carmichael		7-8 per year	Full load, approx 4,000 gallons

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
BID NO. 12-2025
SODIUM HYDROXIDE**

The frequency of deliveries and typical delivery size are estimates of anticipated usage for a 12-month period and are given for informational purposes only and are not used in any calculations to determine the lowest overall bid (Section I, Paragraph 2.16 Method of Award).

<u>Per Region, Agency and Delivery Facility Name and Location</u>			<u>Frequency of Deliveries</u>	<u>Typical Delivery Size</u>
City of Roseville				
Dry Creek Wastewater Treatment Plant	1800 Booth Road	Roseville 95747	1 per week	Approx 5,000 gallons
Pleasant Grove Wastewater Treatment Plant	5051 Westpark Drive	Roseville 95747	Every 10 days	Approx 5,000 gallons
Roseville Energy Park	5120 Phillip Road	Roseville 95747	Every 1-2 months	1,200 gallons
Roseville Water Treatment Plant	9595 Barton Road	Granite Bay 95746	1-2 month	5,000 gallons
City of Sacramento				
E.A. Fairbairn Water Treatment Plant	7501 College Town Drive	Sacramento	Need is storm/maintenance dependent (weekly when required)	4,000 gallons
Sacramento River Water Treatment Plant	301 Water Street	Sacramento	Need is storm/maintenance dependent (weekly when required)	4,000 gallons
El Dorado Irrigation District				
Deer Creek Wastewater Treatment Plant	El Dorado Hills	Cameron Park, CA 95682	6-8x per year	5,000 gals (30%); 5,000 gals (50%)
EID Reservoir A Water	5560 Sly Park Rd		6-8X year	3,800 gallons (50% caustic)
El Dorado Hills Wastewater Treatment Plant	4625 Latrobe Rd	El Dorado Hills, CA 95762	6-8x per year	5,000 gals (30%); 5,000 gals (50%)
El Dorado Hills Water Plant, or EID Reservoir 1 Water, or EID Reservoir A Water	1835 Francisco Dr 5575 Gilmore Rd 5560 Sly Park Rd	El Dorado Hills Pollock Pines Pollock Pines	2 deliveries per year to any of the 3 water locations	5,000 gals (25%)
Nevada Irrigation District				
E. George Water Treatment Plant	11258 Banner Lava Cap Road	Nevada City	8 loads per year	4,800 gallons (12,000 #)
Lake of the Pines Water Treatment Plant	12812 Torrey Pines Drive	Auburn	5 loads oer year	4,800 gallons (12,000#)
Lake Wildwood Water Treatment Plant	14149 Beitler Road	Penn Valley	4 loads per year. Driver must contact plant for escort.	4,800 gallons (12,000 #)
Loma Rica Water Treatment Plant	13786 Loma Rica Drive	Grass Valley	4 loads per year. Driver must contact plant for escort.	4,800 gallons (12,000 #)
North Auburn Water Treatment Plant	12279 Locksley Lane	Auburn	6 loads per year	4,800 gallons (12,000 #)

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
BID NO. 12-2025
SODIUM HYDROXIDE**

The frequency of deliveries and typical delivery size are estimates of anticipated usage for a 12-month period and are given for informational purposes only and are not used in any calculations to determine the lowest overall bid (Section I, Paragraph 2.16 Method of Award).

<u>Per Region, Agency and Delivery Facility Name and Location</u>			<u>Frequency of Deliveries</u>	<u>Typical Delivery Size</u>
Sacramento County Water Agency				
Vineyard Surface Water Treatment Plant	10151 Florin Road	Sacramento	Approx once a month	Full tanker delivery
<u>SOUTH BAY</u>				
City of Sunnyvale				
City of Sunnyvale Wastewater Treatment Plant	1444 Borregas Avenue	Sunnyvale	3x per year	1,700 gallons
<u>TRI VALLEY</u>				
Zone 7 Water Agency				
Del Valle Water Treatment Plant	901 East Vineyard Ave	Livermore	3 - 5 per month (50%)	3,800 gallons
Mocho Groundwater Demineralization Plant	5215 Stoneridge Drive	Pleasanton	1 load every two months (50%)	3,800 gallons
Patterson Pass Water Treatment Plant	8750 Patterson Pass Road	Livermore	5 per month Oct-March (25%)	4,500 gallons

SECTION III – 3

**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
FOR BID NO. 12-2025
SODIUM HYDROXIDE**

**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 12-2025
SODIUM HYDROXIDE**

Central Valley

CITY OF STOCKTON

Municipal Utilities Department 2500 Navy Drive Stockton, CA 95206

Kathryn Garcia	Program Manager III - Wastewater	Kathryn.Garcia@stocktonca.gov	209-937-8232
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CITY OF TURLOCK

156 S Broadway, #270 Turlock, CA 95380

David Huff		dhuff@turlock.ca.us	
Carlos Guerrero	Utilities Manager	cguerrero@turlock.ca.us	
Nicole Mann		nmann@turlock.ca.us	
Raquel Brasil		rbrasil@turlock.ca.us	

East Bay

ALAMEDA COUNTY WATER DISTRICT

43885 South Grimmer Blvd Fremont, CA 94538

Mike Wickham	Water Production Manager	mike.wickham@acwd.com	510-668-6516
Cris Pena	Engineering Supervisor	Cris.Pena@acwd.com	510-668-6541
Renee Gonzalez	Buyer	renee.gonzalez@acwd.com	510-668-4294
Cynthia Ha	Water Production Process Engineer	Cynthia.ha.@acwd.com	510-668-6547

CITY OF HAYWARD

Water Pollution Control Facility 3700 Enterprise Avenue Hayward, CA 94545

David Donovan	WPCF Manager	david.donovan@hayward-ca.gov	510-293-5099
Alex Ameri	Public Works Director	alex.ameri@hayward-ca.gov	
Rita Perez	Purchasing and Accounts Payable - Acting Manager	rita.perez@hayward-ca.gov	510-583-4802
Mark Orlandi	Operations Supervisor	mark.orlandi@hayward-ca.gov	510-293-5212
Diane Vargas	WPCF Secretary	diane.vargas@hayward-ca.gov	

Marin Sonoma Napa

COUNTY OF SONOMA

400 Aviation Blvd, Suite 100 Santa Rosa, CA 95403

Brenda Haas	General Services - Purchasing Division	brenda.haas@sonoma-county.org	707-565-1791
Garrett Heinz	Buyer	Garrett.Heinz@sonoma-county.org	707 565-1787

**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 12-2025
SODIUM HYDROXIDE**

MARIN MUNICIPAL WATER DISTRICT

220 Nellen Avenue Corte Madera, CA 94925

Jim Kenney Superintendent of Operations, Water Treatment	jkenney@marinwater.org	415-945-1501
Lucy Croy Water Quality Manager	lcroy@marinwater.org	415-945-1590
Danelle Graham Senior Buyer	dgraham@marinwater.org	415-945-1402

NAPA SANITATION DISTRICT

1515 Soscol Ferry Road Napa, CA 94558

Gabe Snook Operations Supervisor	gsnook@napasan.com	707-312-1733
Christopher Mosier Operator III	cmosier@napasan.com	707- 312-1899
Cristopher Henriquez Operator II	chenriqu@napasan.com	707-312-1595
Andrew Damron, PE General Manager	adamron@napasan.com	707- 258-6007

NORTH MARIN WATER DISTRICT

999 Rush Creek Place Novato, CA 94945

Jeff Corda	jcorda@nmwd.com	415-761-8965
Robert Clark Operations/Maintenance Superintendent	rclark@nmwd.com	415-761-8931
Brad Stompe Operations Supervisor	bstompe@nmwd.com	

North Bay

CITY OF ANTIOCH

Water Treatment Plant P.O. Box 5007 Antioch, CA 94531-5007

Benjamin Woodland Water Treatment Plant Supervisor	BWoodland@antiochca.gov	(925) 779-7029
Marcus Woodland	Mwoodland@antiochca.gov	
Chris Molina Senior Water Treatment Plant Operator	cmolina@antiochca.gov	

CITY OF MARTINEZ

525 Henrietta Street Martinez, CA 94553

Hiren Patel Water Operations Supervisor	hpatel@cityofmartinez.org	925-372-3588
George Pavlov Water Superintendent	gpavlov@cityofmartinez.org	925-372-3587

CITY OF PITTSBURG

Water Treatment Plant 300 Olympia Drive Pittsburg, CA 94565

Jason Moser Water Treatment Plant Superintendent	jmoser@pittsburgca.gov	925-252-6997
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**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 12-2025
SODIUM HYDROXIDE**

CONTRA COSTA WATER DISTRICT

1331 Concord Ave Concord, CA 94520-4907

Nicole Quesada Administrative Analyst	nquesada@ccwater.com	925-625-6602
John Parsons Water Operations Superintendent	jparsons@ccwater.com	925-625-6603
Herman Williams Director of Finance	hwilliams@ccwater.com	
Kim Waddy Buyer	kwaddy@ccwater.com	925-688-8012

WEST COUNTY WASTEWATER DISTRICT

2910 Hilltop Drive Richmond, CA 94806

Andre Welles	awelles@wcwd.org	510 812-8275
Mark Harris	mharris@wcwd.org	510 871-1325
Joseph Majarucon Operations Manager	jmajarucon@wcwd.org	
Dalvin Hayes Secretary	Dhayes@wcwd.org	510 237-6603
Aaron Winer Director of Water Quality & Resource Recovery	AWiner@wcwd.org	510 812-9586

Peninsula

CITY OF SAN MATEO

City of San Mateo WWTP 2050 Detroit Drive San Mateo, CA 94404

Alonso Barahona Management Analyst II	abarahona@cityofsanmateo.org	650-522-7334
Xiongbing Liang Laboratory Supervisor	xliang@cityofsanmateo.org	650-522-7380
Robert Knox Operations Superintendent /Chief Plant Operator	rknox@cityofsanmateo.org	650-522-7380
Rob Learmonth Planet Manager	rlearmonth@cityofsanmateo.org	

Sacramento

CARMICHAEL WATER DISTRICT

7837 Fair Oaks Blvd. Carmichael, CA 95608

David Biagi	davidb@carmichaelwd.org	916-679-0457
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**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 12-2025
SODIUM HYDROXIDE**

CITY OF ROSEVILLE

311 Vernon Street Roseville, CA 95678

Rochelle Gamette Buyer I	rngamette@roseville.ca.us	916-746-1105
Shannon Wiest Purchasing and Warehouse Manager	swiest@roseville.ca.us	916-746-1112
Becky Philipp Purchasing Supervisor	bphilipp@roseville.ca.us	916-746-1110

CITY OF SACRAMENTO

Department of Utilities 5730 24th Street, Bldg 22 Sacramento, CA 95822

David Herrmann Division Manager, Water Division	dherrmann@cityofsacramento.org	916-808-5652
Dalton Le Program Specialist, Water Division	DMLe@cityofsacramento.org	916-808-6008
Andrew Costan Program Specialist	acostan@cityofsacramento.org	916-808-6339

EL DORADO IRRIGATION DISTRICT

2890 Mosquito Road Placerville, CA 95667

Ryan Deakyne Senior Buyer	rdeakyne@eid.org	530-642-4405
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NEVADA IRRIGATION DISTRICT

1036 W. Main Street Grass Valley, CA 95945

Joan Tortorici Purchasing Supervisor	tortorici@nidwater.com	530-273-6185
Shad Chittock Water Treatment Superintendent	chittocks@nidwater.com	530-271-6899
Coby McCoy Water Treatment Supervisor	mccoyc@nidwater.com	530 913-9710
Delivery Dispatcher		(530) 273-6185, option 3 for Customer Service.

SACRAMENTO COUNTY WATER AGENCY

Vineyard Surface Water Treatment Plant 10151 Florin Road Sacramento, CA 95829

Shawn Barnes Water Treatment Operations Supervisor	barness@sacounty.gov	916-508-0858
Tom Pastorski Water System Superintendent	pastorskit@sacounty.gov	916-876-6430
Aaron Robertson Water System Manager	robertsona@sacounty.gov	916-875-0746
Jeff Gross	grossj@sacounty.gov	

**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 12-2025
SODIUM HYDROXIDE**

South Bay

CITY OF SUNNYVALE

Water Pollution Control Plant 1444 Borregas Avenue Sunnyvale, CA 94088-3707

Julie Callaghan Admin Aide	jcallaghan@sunnyvale.ca.gov	408-730-7719
Rohan Wikramanayake Division Manager	RWikramanayake@sunnyvale.ca.gov	408-730-7788
Lisa Vo Purchasing	lvo@sunnyvale.ca.gov	408-730- 7608

Tri Valley

ZONE 7 WATER AGENCY

100 North Canyons Parkway Livermore, CA 94551

Karen Bartels Buyer II	kbartels@zone7water.com	925-454-5039
Zeljka Bozic Buyer I	zbozic@zone7water.com	925 454 5029


SECTION IV

**BAY AREA CHEMICAL CONSORTIUM
BID CONTRACT DOCUMENTS
FOR BID NO. 12-2025
SODIUM HYDROXIDE**

***** All of the following pages must be properly completed and submitted
for the bid to be considered complete. *****

**BAY AREA CHEMICAL CONSORTIUM
STANDARD AGREEMENT, PAGE 1 OF 2
BID NO. 12-2025
SUPPLY AND DELIVERY OF SODIUM HYDROXIDE**

I hereby agree to furnish SODIUM HYDROXIDE identified in the attached bid forms, as solicited by the Bay Area Chemical Consortium (BACC), to one or more of the participating BACC Agencies.

Company: Univar Solutions USA LLC.
Address: 8201 S 212th St.
City, State, ZIP: Kent, WA 98032
Phone: 253-872-5040
Email: jennifer.perras@univarsolutions.com or muniteam-west@univarsolutions.com
Authorized Representative: Jennifer M. Perras
Signature: 
Date: 2/12/2025

WE ACKNOWLEDGE RECEIVING ADDENDUM/ADDENDA NUMBER 1 THROUGH .

SPECIFIC DEVIATIONS:



This box must be checked if bidder has any proposed specific deviations. Per Section 2.12 Proposed Deviations from the Specifications by the Bidder, the absence of a proposed change in the specifications will hold the bidder strictly accountable to the specifications as described in the bid document, including any addendum.

Describe the specific deviations below. A copy of the proposed specifications must be attached to this Standard Agreement at the time of submission, with bidder's name clearly shown on each document.

Any order less than 2,000 gal. will be charged an LTL fee of \$525.00 per delivery. If a load
is split between multiple sites and the delivery volume is less than 2,000 gal, one LTL fee will
be charged.

Please see the attached 2 pages, which lists the Sodium Hydroxide deviations.

Description of Emergency Supply Plan: Provide a summary of vendor's plans to continue to supply product in the event of an unexpected disaster or urgent emergency event.

We have our own fleet of trucks and drivers, if our facilities are up and running. Municipalities are our first priority.

We have tanks of chemicals at our facilities that can supply chemicals. We also have deep water tanks to pull from. We can pull from Redwood City, Santa Fe Springs, K2, Dow, IMTT Richmond, CA.

Date: February 11, 2025

Re: BACC Bid No. 12-2025: Deviation from BACC NaOH Specifications

In accordance with BACC Bid No. 12-2025, Section 2.12, Proposed Deviations from the Specifications by the Bidder, Univar Solutions intends to supply sodium hydroxide solution to BACC meeting the following technical specifications:

**UNIVAR SOLUTIONS PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 20% Solution**

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt. %	18	22
Sodium Oxide, Na ₂ O	Wt. %	13.6	17.4
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt. %	0	0.15
Sodium Chlorate, NaClO ₃	PPM	0	33
Sodium Sulfate, Na ₂ SO ₄	PPM	0	67
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.21	1.23

* Sodium hydroxide for wastewater treatment applications may contain up to 9 mg/L iron (Fe) and 3 mg/L nickel (Ni)

**UNIVAR SOLUTIONS PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 25% Solution**

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt. %	23	27
Sodium Oxide, Na ₂ O	Wt. %	17.4	21.3
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt. %	0	0.15
Sodium Chlorate, NaClO ₃	PPM	0	42
Sodium Sulfate, Na ₂ SO ₄	PPM	0	83
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.20	1.35

* Sodium hydroxide for wastewater treatment applications may contain up to 9 mg/L iron (Fe) and 3 mg/L nickel (Ni)

**UNIVAR SOLUTIONS PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 30% Solution**

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt. %	28	32
Sodium Oxide, Na ₂ O	Wt. %	22.3	25.2
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt. %	0	0.15
Sodium Chlorate, NaClO ₃	PPM	0	31
Sodium Sulfate, Na ₂ SO ₄	PPM	0	80
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.25	1.40

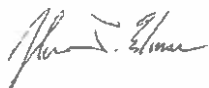
* Sodium hydroxide for wastewater treatment applications may contain up to 9 mg/L iron (Fe) and 3 mg/L nickel (Ni)

**UNIVAR PRODUCT TECHNICAL SPECIFICATIONS
SODIUM HYDROXIDE, 50% Solution**

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt. %	48	52
Sodium Oxide, Na ₂ O	Wt. %	36.8	40.7
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na ₂ CO ₃	Wt. %	0	0.30
Sodium Chlorate, NaClO ₃	PPM	0	50
Sodium Sulfate, Na ₂ SO ₄	PPM	0	100
Nickel, Ni	PPM	0	0.5 *
Iron, Fe	PPM	0	5 *
Mercury, Hg	PPM	0	2
Specific Gravity		1.45	1.60

* Sodium hydroxide for wastewater treatment applications may contain up to 9 mg/L iron (Fe) and 3 mg/L nickel (Ni)

Sincerely,



Tom Edman
Sr. Product Manager- Alkali

STANDARD AGREEMENT, PAGE 2 OF 2

BIDDER INFORMATION

1. Legal Name of Bidder:

Univar Solutions USA LLC.

2. Bidder's Street Address:

Muni Team-8201 S 212th St., Kent, WA 98032 Branch-2461 Crocker Circle, Fairfield, CA 94533

3. Mailing Address:

Muni Team-8201 S 212th St., Kent, WA 98032 Invoices-62190 Collections Center Drive, Chicago, IL 60693-0621

4. Business Telephone: 855-785-9499 Fax Number: 408-435-1735

5. Type of Supplier:

☐ Sole Proprietor ☐ Partnership ☐ Corporation ☒ LLC

If Corporation, indicate State where incorporated: Illinois

6. Business License Number issued by the City where the Supplier's principal place of business is located.

Number: 32739 Issuing City: Fresno, CA

7. Supplier Federal Tax Identification Number: 91-1347935

8. Emergency Contact: Name: Brian Wills

Phone Number: 650-670-7267

9. Order Contact: Name: Customer Service

Address: Commerce, CA

Phone Number: 885-785-9499 Fax Number: 408-435-1735

Email: Custsvc-la@univarsolutions.com ****NEW EMAIL****

10. References:

<u>Company/Agency Name</u>	<u>Contact Name</u>	<u>Phone Number</u>
1) <u>Please see attached 2 pages</u>	<u></u>	<u></u>
2) <u></u>	<u></u>	<u></u>
3) <u></u>	<u></u>	<u></u>

11. Chemical Manufacturer's name and address (if different from Bidder):

K2-950 Loveridge Rd, Pittsburg, CA 94565

Univar-12522 Los Neitos Rd., Santa Fe Springs, CA 90670

Univar-525 Seaport Blvd., Redwood City, CA 94063

Univar Solutions USA LLC.
8201 S. 212th
Kent, WA 98032-1994
USA

T 253-872-5000
F 253-572-5041
www.univarsolutions.com



References

1. County & County of San Francisco
1 Dr. Carlton B Goodlett Place
San Francisco, CA 94102

Contact: Lin Repola- linda.repola@sfgov.org
Phone: 415-554-4564

Supply and Delivery of Bulk Sodium Hypochlorite, Caustic Soda and Sodium Bisulfite servicing for the past 10 years.

2. East Bay Mud
PO Box
Oakland, CA 946231

Contact: John Grimes, Purchasing
Email- john.grimes@ebmud.com
Phone: 510-287-0316

Supply and Delivery of Bulk Sodium Hypochlorite, Bulk Caustic Soda, & Bulk Sodium Bisulfite servicing for the past 10years.

3. City of Riverside
WTP
San Bernardino, CA 92408

Contact: Shiloh Rogers, Procurement & Contract Specialist
Email- SARogers@riverside.gov
Phone 951-826-5562

Supply and Delivery of Sodium Hypochlorite servicing for the past 2 years.

[addressee]

[date]

[page #]

4. BACC-Bay Area Chemical Consortium
Over 100 locations within Northern California

Contact: each city, info listed below.

Supply and Delivery of Sodium Hypochlorite, Caustic Soda, Sodium Bisulfite servicing for the past 10 years.

- City of Stockton, CA – Kathryn Garcia Kathryn.Garcia@stocktonca.gov
Phone: 209-937-8232
- City of Turlock, CA- Lisa Quiroga equiroga@turlock.ca.us
Phone: 209-668-5402
- Marin Municipal, CA- Jim Kenney jkenney@marinwater.org
Phone: 415-945-1501

5. City of Los Angeles
Los Angeles, CA

Contact: Katherin Quinn-

Email: Katherine.Quinn@lacity.org

Phone: 310-648-5665

Supply and Delivery of Sodium Hypochlorite for the past 4 years

6. County Sanitation Districts of Los Angeles County
PO Box 7998
Whittier, CA 90607-4998

Contact: Martha Ibarra

Emails: mibarra@lacsds.org

Phone: (562) 908-4288 ext. 1423

For Supply and Delivery of Bulk Sodium Hydroxide (Caustic Soda) 50% and Calcium Hydroxide 45%, have been servicing for 6 years

Over the past 10 years, Univar has participated in 100's of Municipal bids, we have listed the 6 projects represent our capabilities in California.

All of our operational personnel participated in making sure all delivery requirements were met to each customer.

{addressee}

{date}

{page #}

Our customer service department takes care of all orders, they communicate with operations and the customer to make sure all requests are satisfied.

We meet 100% of our contractual obligations; any municipality that is under contract with Univar is serviced first if there is a shortage in the market place.

**BAY AREA CHEMICAL CONSORTIUM
BID FORM FOR BID NO. 12-2025
FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE**

Sealed bids must be submitted in a PDF format and bidders must enter bid prices into the electronic bid platform (Line Item page)
<https://bacwa.org/about-bacc/>

No later than 4:00 PM. PT
Thursday, February 20, 2025

Legal Name of Bidder:
Univar Solutions USA LLC.

Business Address
8201 S 212th St.
Kent, WA 98032

Telephone Number: 253-872-5040

Facsimile Number: 253-872-5041

Email Address: munteam-west@univarsolutions.com

Authorized Representative (Please Print):
Jennifer M. Perras

Signature: 

Date: 2/12/2025

I. All costs except California State sales tax for the purchase of SODIUM HYDROXIDE must be included in the amount shown entered into the electronic bid platform (Line Item page), including any and all mill assessments, fees, excise taxes, transportation charges, etc. Any exceptions to the bid must be noted under Specific Deviations on the Standard Agreement. Bidders shall submit bids per unit of measure as specified in the electronic bid platform (Line Item page).

II. Bidders must submit all of the following, attached to this Bid Form:

- a. All requirements listed in Section 2.21 Manufacturer's Info.
- b. If applicable, the name, address, and contact information for the third party hauling company as well as an affidavit signed by the Bidder that the third party hauler can and will deliver the chemical to each and every participating BACC Agency.

III. Bidder Obligations

By signing this Bid Form and entering into individual purchase orders, purchase agreements and /or contracts with BACC agencies, the bidder expressly agrees to be bound by all the provisions of the bid solicitation, including Sections I-IV.

AFFIDAVIT RE DELIVERY REQUIREMENTS

STATE OF WASHINGTON)
)
COUNTY OF KING)

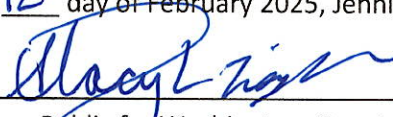
I, Jennifer Perras, the Sr. Municipal Bid Specialist for Univar Solutions USA LLC. ("Univar") being duly sworn, states that I have read RFP#12-2025 and knows its contents and hereby attests that if Univar utilizes the services of a third party hauling company for some or all of its deliveries, Univar will be responsible for ensuring that said hauler can and will deliver the product to each location shown on the bid documents.

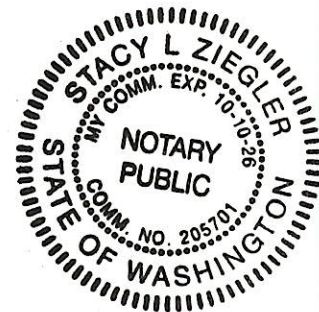
Chemical Transfer Co.-3105 El Dorado St., Stockton, CA 95206
Bulk Transportation- 415 S Lemon Ave., Walnut, CA 91789
Quality Carriers- 2750 Goodrick Ave, Richmond, CA
Rj's Transportation-11949 Hawthorne Ave, CA 92345

#209-466-3554
#909-594-2855
#510-232-8313
#909-732-9144

By 
Jennifer M. Perras

SUBSCRIBED AND SWORN to before me this 12th day of February 2025, Jennifer M. Perras.


Notary Public for Washington, County of King
My Commission Expires: 10-10-26



BAY AREA CHEMICAL CONSORTIUM

Worksheet

BID NO. 12-2025

SODIUM HYDROXIDE

Refer to paragraph 2.4 Bid Pricing for full details.

Bidders shall submit bids in US\$ per unit of measure indicated on this bid form, FOB Destination.

Bid prices shall be based on bulk deliveries of 2,000 gallons or more. Bidders must submit their Bid Prices via electronic bid platform - Line Items section. Do not submit Worksheet.

	Unit of Measure	Bid Price per Unit of Measure
Sodium Hydroxide 20% (Caustic)		
<u>Marin Sonoma Napa</u>	dry ton	\$
County of Sonoma		
<u>Sacramento</u>	dry ton	\$
City of Sacramento		
Sodium Hydroxide 25% (Caustic)		
<u>Central Valley</u>	dry ton	\$
City of Stockton		
City of Turlock		
<u>Marin Sonoma Napa</u>	dry ton	\$
Napa Sanitation District		
<u>Peninsula</u>	dry ton	\$
City of San Mateo		
<u>Sacramento</u>	dry ton	\$
City of Roseville		
City of Sacramento		
El Dorado Irrigation District		
Nevada Irrigation District		
Sacramento County Water Agency		
<u>South Bay</u>	dry ton	\$
City of Sunnyvale		
<u>Tri Valley</u>	dry ton	\$
Zone 7 Water Agency		
Sodium Hydroxide 30% (Casutic)		
<u>Marin Sonoma Napa</u>	dry ton	\$
County of Sonoma		

BAY AREA CHEMICAL CONSORTIUM

Worksheet

BID NO. 12-2025

SODIUM HYDROXIDE

Refer to paragraph 2.4 Bid Pricing for full details.

Bidders shall submit bids in US\$ per unit of measure indicated on this bid form, FOB Destination.

Bid prices shall be based on bulk deliveries of 2,000 gallons or more. Bidders must submit their Bid Prices via electronic bid platform - Line Items section. Do not submit Worksheet.

	Unit of Measure	Bid Price per Unit of Measure
<u>North Bay</u>	dry ton	\$
Contra Costa Water District		
West County Wastewater District		
<u>Sacramento</u>	dry ton	\$
El Dorado Irrigation District		
Sodium Hydroxide 50% (Caustic)		
<u>Central Valley</u>	dry ton	\$
City of Stockton		
<u>East Bay</u>	dry ton	\$
Alameda County Water District		
City of Hayward		
<u>Marin Sonoma Napa</u>	dry ton	\$
County of Sonoma		
Marin Municipal Water District		
North Marin Water District		
<u>North Bay</u>	dry ton	\$
City of Antioch		
City of Martinez		
City of Pittsburg		
<u>Sacramento</u>	dry ton	\$
Carmichael Water District		
City of Roseville		
El Dorado Irrigation District		
<u>Tri Valley</u>	dry ton	\$
Zone 7 Water Agency		



Univar Inc. is committed to embedding sustainability throughout our business. Univar recognizes that sustainability goes beyond reducing our impacts on the environment and that it involves an all-encompassing social, economic and environmental philosophy. Univar is a global enterprise with a strong ethical approach to business – a responsible corporate citizen. Univar encourages and values sustainable business practices across our value chain, and we support and encourage our suppliers and customers on their journeys to a sustainable future.

To meet our commitment the Sustainability Policy is guided by the principles below:

- Compliance with all applicable legal requirements and to operate in accordance with both government and industry codes of practice and guidance that are appropriate to our activities;
- Minimize any adverse impacts of our operations on the environment or the surrounding communities;
- Engage with our key stakeholders to ensure that our environmental and social efforts remain relevant;
- Communicate our commitment and our ongoing efforts relating to sustainability to our employees and the wider value chain;
- Encourage and support environmentally and socially responsible behavior from our customers and suppliers including those relating to key topics such as climate change or labor practices;
- Consider in our actions the principles of ISO26000 'Guidance on Social Responsibility' to ensure a comprehensive approach towards sustainability;
- Open and transparent reporting on issues that may impact our environment and society annually through a report informed by the Global Reporting Initiative (GRI) standards;
- Provide our supply chain partners with more sustainable choices in the markets that we operate;
- Review performance of sustainability metrics on an ongoing basis to ensure continual improvement.

The principles of this policy are core to our sustainability agenda, shaping our objectives and initiatives.

A handwritten signature in dark ink, appearing to read 'P. Hockaday'.

Phil Hockaday
Vice President, Global
Environmental, Health and Safety
Univar Inc.

Effective Date: 5th May 2017

NACD Responsible Distribution Process Code of Management Practice

Each member company shall have an active program designed to continuously improve safety and reduce incidents. This Code does not impose upon member companies any obligation to guarantee compliance by third parties, i.e., parties over whom the member companies have no control. This program shall include:

I. Risk Management

- A. Senior management commitment, through policy, communications, and resources, to on-going improvements in chemical distribution safety.
- B. Regular review with suppliers of the hazards of materials.
- C. Identification and implementation of risk reduction measures.

II. Compliance Review and Training

- A. A process for monitoring regulations and industry practices for their application to chemical distribution activities.
- B. A process for implementing applicable regulations and industry practices that apply to chemical distribution activities.
- C. Training for all employees in the implementation of applicable regulations, as well as member company's specific requirements.
- D. A process for review of employee compliance with applicable regulations and member company's specific requirements and review of outside contractor and re-seller compliance with member company's specific requirements.

III. Carrier Selection

- A. A process for selecting carriers to transport chemicals that includes carrier safety and fitness, security, regulatory compliance, and performance review.

IV. Handling and Storage

- A. Procedures for ensuring that containers are appropriate for the chemical being shipped, comply with regulatory requirements, and are free from leaks and visible defects.
- B. Criteria for the cleaning and re-use of transportation equipment and chemical containers, and the proper disposal of cleaning residues.
- C. Procedures for loading and unloading chemicals at the member company's facilities that result in protection of personnel, a reduction in emissions to the environment, and ensures that chemicals are loaded and unloaded into and out of proper storage facilities.
- D. A program for providing manufacturer guidance and information to customers, warehouses, terminals and/or carriers on procedures for loading, unloading, and/or storing chemicals.
- E. A process for selecting owned and contracted facilities and sites for chemical storage or handling that emphasizes safety, fitness and includes reviews.
- F. Documentation of current operating procedures for handling and storing chemicals.
- G. Facility design, construction, maintenance, inspection, and security practices that promote facility integrity, consistent with recognized codes and regulations.
- H. Develop a process for addressing chemical site and chemical transportation security.
- I. Provisions for control of processes and equipment during emergencies resulting from natural events, utility disruptions, and other external conditions.
- J. Procedures to properly label and mark packages and containers.

V. Job Procedures and Training

- A. Identification of the skills and knowledge necessary to perform each job.
- B. Establishment of procedures and work practices for safe operating and maintenance activities.
- C. Training for all personnel to reach and maintain proficiency in safe work practices and the skills and knowledge necessary to perform their job, including confirmation of competence.
- D. Programs designed to assure that personnel in safety critical jobs are fit for duty and are not compromised by external influences, including alcohol and drug abuse.
- E. Outside Contractors: In areas where hazardous materials are present, members shall have a process in place to inform contractors of the known hazards and the emergency action plan.

VI. Waste Management and Conservation Practices

- A. Procedures to ensure that all self-generated waste and empty containers are disposed of in a responsible manner, and in accordance with existing regulations.
- B. A clear commitment by senior management through policy communications, resources, and programs to ongoing waste reductions and pollution prevention at each member facility.
- C. A commitment to institute resource conservation measures.

VII. Emergency Response and Public Preparedness

- A. A process for responding to, reporting on, and investigating chemical distribution incidents and releases involving the member company's chemicals, and implementation of appropriate preventive measures developed from that investigative process.
- B. A system of internal investigation, reporting, appropriate corrective action, and follow-up for each incident and/or near miss that result or could have resulted in chemical incidents or releases.
- C. Procedures for making emergency response information concerning the member company's chemicals available to response agencies.

- D. Communication with state and/or local emergency planning commissions and response organizations on the potential hazards of the member company's chemicals.
- E. Annual review, testing, and assessment of the operability of the member company's written emergency action and fire prevention plan and/or emergency response plan.
- F. Facility tours for first responders to promote emergency preparedness and to provide current knowledge of facility operations.
- G. Coordination of the written facility emergency response plan with the local emergency response team and other facilities. If no community plan exists, the facility should assist with efforts to create one.
- H. Participation in the Local Emergency Planning Committee's process to develop and periodically test the local emergency response plan.

VIII. Community Outreach

- A. Interaction with organizations, associations, government officials and/or the public on behalf of NACD's Responsible Distribution ProcessSM.
- B. Information and updated for employees on the Responsible Distribution ProcessSM to encourage key employees to become involved in community outreach efforts.
- C. Advocacy of responsible public policies and regulations for chemical distribution.

IX. Product Stewardship

Customers

- A. A process to qualify customers as prescribed by governmental regulation.
- B. Member companies should work with customers to foster appropriate dissemination of information on the proper use, handling and disposal of products commensurate with product risk. A member may decide to cease doing business with customers whose practices are clearly inconsistent with the Responsible Distribution ProcessSM.

X. Internal RDP Audits

- A. Member companies shall establish documented procedures for regularly scheduled INTERNAL AUDITS to verify the implementation of policies and procedures supporting the RDP Code of Management Practice. The audits will be used to evaluate the effectiveness of the policies and procedures. Internal Audits shall be done on a yearly basis beginning with successful completion of the Interim Verification Process.
- B. Audits shall be recorded and results brought to the attention of appropriate management personnel who must take timely corrective or preventive action. Annual audit results should be retained until the next Third-party On-Site Verification is completed.

XI. RDP Corrective and Preventive Action

- A. Member companies shall establish a CORRECTIVE AND PREVENTIVE ACTION system for RDP related issues. This system should permit the identification and communication of inadequacies or improvements in each member company's implementation of RDP.
- B. Member companies shall establish and maintain procedures for implementing corrective action and preventive actions arising from internal and external audits or other sources. Any corrective or preventive action taken to resolve the cause or RDP implementation inadequacy shall be appropriate, as determined by member company management, to the magnitude of the cause or inadequacy and commensurate with the risk involved.

XII. RDP Document and Data Control

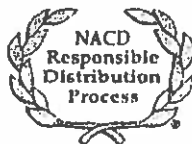
- A. Member companies shall establish and maintain a documented system to control all policies and procedures supporting RDP. In addition, member companies shall maintain a documented system to control the documents and data relating to RDP itself as issued by the National Association of Chemical Distributors (NACD).
- B. Data includes any of the above that is electronically stored and utilized.
- C. These documented procedures shall include provisions for review and approval of any new or revised policies and procedures by the authorized personnel within the member company.
- D. A master list or functionally equivalent document control system identifying the current version of each document shall be established and be readily available to preclude the use of invalid and/or obsolete documents. The system shall ensure that:

Changes to documents and data shall be reviewed and approved by the same function/organization that performed the original review and approval, unless specifically designated otherwise. These functions/organizations shall have access to pertinent background information upon which to base their review and approval. Where practical, the nature of the change shall be identified in the document or appropriate attachments.

NACD Responsible Distribution Process

Guiding Principles

1. To recognize and respond to community concerns about chemicals, their handling, and transportation.
2. To make health, safety, security, and environmental considerations a priority in our planning for all existing and new operations, products, processes, and facilities.
3. To inform emergency response officials, employees, customers, and the public of manufacturer's information on chemical-related health or environmental hazards, and the manufacturer's recommendations on protective measures.
4. To work with customers, in accordance with manufacturer's recommendations, on product stewardship including handling, use, transportation, and disposal of chemical products.
5. To operate our plants and facilities in a manner that protects the health and safety of our employees, the public and the environment.
6. To cooperate in resolving problems created by past handling and disposal of hazardous chemicals.
7. To participate with government and others in creating responsible laws, regulations, and practices to help safeguard the community, workplace, and environment.
8. To promote the principles and practices of Responsible Distribution ProcessSM by sharing experiences and offering assistance to others who produce, handle, use, transport, or dispose of chemicals.



RDP – What Is It?

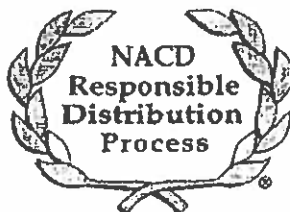
Univar is a member of the National Association of Chemical Distributors. This trade association developed the Responsible Distribution ProcessSM (RDP), which focuses on the responsible management and distribution of chemicals.

RDP emphasizes continual improvement in the health, safety, security, and environmental performance of all NACD member companies. This includes a commitment to comply with environmental, health and safety regulations; providing critical product safety information to employees, contractors and customers; while working with local communities and neighbors to respond to their needs. RDP consists of a set of Guiding Principles and the Code of Management Practice. This Code includes 47 specific requirements, divided into twelve sections:

- Risk Management
- Compliance Review and Training
- Carrier Selection
- Handling and Storage
- Job Procedures and Training
- Waste Management & Conservation
- Emergency Response/Public Preparedness
- Community Outreach
- Product Stewardship
- Internal RDP Audits
- RDP Corrective & Preventive Action
- RDP Document & Data Control

A key requirement of RDP and a condition of membership in NACD is verification of members' RDP policies and procedures by a third-party firm. Univar received the first Third-Party verification in 1995 and received a compliance certificate. We were re-certified in 2000 and again in 2004.

Univar maintains a leadership position in NACD, and remains firmly committed to the Responsible Distribution Process and its objective of promoting continual improvement in chemical handling and distribution.





**Univar Solutions USA Inc.
Safety Information**

I. INTRODUCTION

(A) Scope

Univar USA Inc. (UNIVAR) is committed to conducting its operations in a manner that minimizes the risk to the safety and health of our employees, customers, the public and the environment.

(B) Purpose

This Injury & Illness Prevention Program (IIPP) has been developed by UNIVAR for its employees who may be exposed to general and/or chemical hazards. This program meets the requirements of Senate Bill 198 enacted under California Labor Code Section 6401.7 and the General Industry Safety Orders Section 3203.

This IIPP represents only a portion of UNIVAR's Safety and Environmental Program. The program includes several written programs and manuals such as the Operating Standards Manual, Emergency Contingency Plan, Risk Management Program, Process Safety Management Program, Hazard Communication Program, Respiratory Protection Program, Confined Space Entry Program, Lock Out/Tag Out Program, Hot Work Program and Documentation Manual. The IIPP is not intended to be a standalone program but rather a supplement to all of the other current programs. The primary functions of this program are to inform employees of the regulation, highlight areas of occupational hazards, direct them to the proper means of minimizing the identified hazards and define the lines of communication between employees and management.

This IIPP is available for review by employees, government agencies, vendors, contractors or any other parties who have a need to examine the Program. The Program includes:



**Univar Solutions USA Inc.
Safety Information**

Employer Information:	Name, address, telephone number, type of business and main activity.
Administrator Information:	Person with the authority and responsibility to administer the program.
Safety & Health Hazard Evaluation:	A two step process which includes job classification and occupational hazard analysis.
Standard Operating Procedures/ Operating Standards:	Programs and procedures necessary to ensure employee safety and health in every aspect of their job.
Inspection Program:	Inspections are conducted: (1) when the IIPP is first established; (2) whenever new substances, processes, procedures, or equipment are introduced into the workplace; (3) whenever a new or previously unrecognized hazard is identified; (4) when occupational injuries or illnesses occur; and (5) whenever workplace conditions warrant an inspection. Scheduled daily, weekly and monthly inspections.
Training Program:	Employees receive initial, refresher and ongoing training as required.
Communication:	Provides a means to instruct employees on the hazards associated with each job classification; ensure employees' compliance with standard operating procedures and safe work practices; encourage employees to participate in the safety program and identify areas of concern and/or hazards.
Safety Award Program:	Company program that encourages and rewards employees for working safely.



Univar Solutions USA Inc.
Safety Information

Progressive Disciplinary Action Policy: Company policy that disciplines employees that do not perform their job functions according to

established policies, procedures and guidelines. These policies, procedures and guidelines have been developed to establish a safe working environment for all of our employees and any deviation from them will not be tolerated.

Recordkeeping Requirements: Includes this written program; hazard analysis; the OSHA 300 Log; Standard Operating Procedures; inspections; training; meeting records and disciplinary actions for a period of time prescribed

Program Reviews: Review and assess this and other company programs as required to ensure their effectiveness and applicability.

UNIVAR SOLUTIONS SECURITY PROGRAM

As an international distributor of industrial chemicals, a participant in the National Association of Chemical Distributors Responsible Distributor program, and an active member of the communities we serve, Univar Solutions USA Inc. (Univar) has long had policies and procedures in place to ensure the security of our products, facilities, employees and communities. The following summary outlines the major provisions of Univar's Security Program which reflects not only prudent measures to maximize the secure and safe handling of chemicals, but also the security requirements of various federal programs related to management of hazardous materials including DOT hazardous material transportation requirements, DHSCFAT program and Department of Commerce import rules among others. Note that this description is necessarily a broad overview of Univar's security program as various agencies limit the security related information that can be disclosed.

For our business partners that are C-TPAT certified please consider the following outline a demonstration of the degree to which Univar complies with C-TPAT security criteria.

BUSINESS PARTNER REQUIREMENT

Univar has a written and verifiable process for the selection of business partners including manufacturers, product suppliers and vendors. Other internal requirements such as; capability of meeting contractual security requirements and financial soundness are included in the verification process.

POINT OF ORIGIN

Univar ensures its foreign business partners have security criteria in place that enhances the integrity of the shipment at point of origin. Periodic reviews of foreign business partners' processes and facilities are conducted based on risk.

CONTAINER SECURITY

Container integrity is maintained as mandated by international cargo transport laws and regulations.

EN ROUTE SECURITY

Hazardous cargo is secured while in transit. Additionally, products and routes are annually evaluated to assess potential security risks.

COMMON CARRIER EVALUATION

In addition to the above security measures, Univar has taken steps to verify our common carriers' compliance with DOT's HM-232 rules. Each common carrier has been asked to certify their security compliance with regards to HM-232.

PERSONNEL SECURITY

Personnel security begins with hiring qualified employees. Univar has established policies and procedures to ensure we hire and maintain qualified employees. These policies and procedures include, but are not limited to:

- Pre-employment background checks
- Pre-employment and random drug tests for drivers and warehouse staff
- Policy on "Standards of Conduct" (included in the Employee Handbook)
- Policy on "Confidential Information" (included in the Employee Handbook)
- Checkout procedures for terminating employees
- Referral of illegal or criminal activities to law enforcement

PHYSICAL ACCESS CONTROLS & SECURITY, PROCEDURAL & IT SECURITY

SECURITY & VULNERABILITY ASSESSMENT

Due to the hazardous nature of the chemicals we manage and distribute, Univar constantly assesses its security and vulnerability concerning internal or external threats that could potentially disrupt operations or harm our employees, communities or the environment.

Univar's security program addresses the following potential sources of loss or disruption:

- Theft, vandalism, and break-ins
- Theft of confidential business information
- Sabotage of equipment, utilities, and records
- Product contamination and tampering
- Bomb threats
- Civil unrest disrupting plant access and operations
- Workplace violence and assaults

Additionally, Univar has developed a risk-based matrix to identify areas of concern and has taken steps to address those areas of concern.

The initial security evaluations periodically reviewed by the site security official to evaluate the integrity and effectiveness of security policies, procedures and systems.

UNAUTHORIZED ACCESS

Univar has established minimum facility security guidelines that must be implemented and adhered to by each facility. Those minimum guidelines include but are not limited to:

- Perimeter and warehouse security
- Equipment security
- Access controls for production areas, warehouses, utility facilities, and offices
- Signs to direct visitors and vehicles to the appropriate entry points
- Visitor control

Univar employees have been trained to question unescorted person(s) within the operating areas, and to be watchful for unusual activity on company property or in the immediate surrounding areas.

SITE SECURITY COORDINATOR

Each Univar facility has designated an employee, and an alternate, as the site security coordinator. This person(s) is responsible for performing the following security management functions:

- Prepare and implement a site specific security program consistent with the requirements herein
- Establish relationships with law enforcement and emergency response agencies
- Manage incident reporting procedures, conduct incident investigations, and if necessary, conduct investigations into breaches of company security policy
- Train employees about security awareness
- Address security issues in an emergency, participate in crisis management planning and ensure appropriate execution in emergency
- Periodically reassess the facility's site security program

TRAINING

The Security Coordinator or his/her designee will train site personnel upon hire and every three years thereafter on the site security program. At a minimum, training includes:

- Company security objectives
- Specific site security procedures:
 - Product integrity
 - Personnel security
 - Facility security
 - En-route security
- Employee responsibilities

Should you have any general questions regarding Univar site and transit security program, please contact Jon Webster, Senior Vice President, North America Supply Chain & Operations at (425)241-7138 or Jeff Dixon, Director, International Trade Services at (281)543-8771.

Respectfully,

A handwritten signature in black ink, appearing to read "Jon Webster".

Jonathan (Jon) Webster
Senior Vice President
North America Supply Chain & Operations

COMMON CARRIER EVALUATION

In addition to the above security measures, Univar has taken steps to verify our common carriers' compliance with DOT's HM-232 rules. Each common carrier has been asked to certify their security compliance with regards to HM-232.

Should you have any questions regarding any of the items noted in this security program summary, please feel free to contact your local Univar representative or myself at (425) 889-3776.

Respectfully,

A handwritten signature in dark ink, appearing to read "Ed Higbee", with a horizontal line extending to the right.

Ed Higbee
Director – Regulatory, Health & Safety



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, February 11, 2025** 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?Company=08590&Standard=060&>

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

Univar Solutions USA

3075 Highland Parkway

Suite 200

Downers Grove, IL 60515

United States

425-889-3400

Facility : # 1 Distribution Center - Richmond, CA

Sodium Hydroxide

Trade Designation

Caustic Soda 10%

Caustic Soda 13%

Caustic Soda 15%

Caustic Soda 20%

Caustic Soda 25%

Caustic Soda 30%

Caustic Soda 50%

Sodium Hydroxide 10%

Sodium Hydroxide 13%

Sodium Hydroxide 15%

Sodium Hydroxide 20%

Sodium Hydroxide 25%

Sodium Hydroxide 30%

Product Function

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

Max Use

500mg/L

384mg/L

333mg/L

250mg/L

200mg/L

165mg/L

100mg/L

500mg/L

384mg/L

333mg/L

250mg/L

200mg/L

165mg/L

Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

Facility : Distribution Center - Birmingham, AL

Fluorosilicic Acid		
<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
FSA	Fluoridation	5mg/L
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
HFS	Fluoridation	5mg/L
Hexafluorosilicic Acid	Fluoridation	5mg/L
Hexafluosilicic Acid	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

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

Facility : Distribution Center - Glendale, AZ

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

Facility : Distribution Center - Phoenix 27th Ave., AZ

Hydrochloric Acid		
<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>

Hydrochloric Acid 15%	pH Adjustment	93mg/L
Hydrochloric Acid 20%	pH Adjustment	75mg/L
Hydrochloric Acid 31%	pH Adjustment	45mg/L
Hydrochloric Acid 35%	pH Adjustment	40mg/L

Sodium Bisulfite[1]

Trade Designation	Product Function	Max Use
Sodium Bisulfite 25%	Dechlorination	46mg/L
Sodium Bisulfite 38%	Dechlorination	46mg/L
Sodium Bisulfite 39%	Dechlorination	46mg/L
Sodium Bisulfite 40%	Dechlorination	46mg/L
Sodium Bisulfite 41%	Dechlorination	46mg/L
Sodium Bisulfite 42%	Dechlorination	46mg/L

[1] This product contains sulfite.

Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals.

The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

Sodium Hydroxide

Trade Designation	Product Function	Max Use
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

Sodium Hypochlorite[HY]

Trade Designation	Product Function	Max Use
Sodium Hypochlorite 12.5%	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 5.25%	Disinfection & Oxidation	200mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Sulfuric Acid

Trade Designation	Product Function	Max Use
Sulfuric Acid, 25%	pH Adjustment	186mg/L

Sulfuric Acid, 30%	pH Adjustment	153mg/L
Sulfuric Acid, 33%	pH Adjustment	141mg/L
Sulfuric Acid, 36%	pH Adjustment	129mg/L
Sulfuric Acid, 50%	pH Adjustment	93mg/L
Sulfuric Acid, 70%	pH Adjustment	66mg/L
Sulfuric Acid, 74%	pH Adjustment	63mg/L
Sulfuric Acid, 78%	pH Adjustment	60mg/L
Sulfuric Acid, 93%	pH Adjustment	50mg/L

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

Facility : North Little Rock, AR

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control Sequestering	200mg/L
Caustic Soda 50%	Corrosion & Scale Control Sequestering	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control Sequestering	200mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control Sequestering	100mg/L

Facility : Commerce, CA

Acetic Acid[1]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Acetic Acid	Biological Substrate	188mg/L
Acetic Acid 56%	Biological Substrate	266mg/L
Acetic Acid 80%	Biological Substrate	188mg/L

[1] This product is designed to function as a reducing agent in biologically active drinking water treatment systems.

Aluminum Chlorohydrate[AL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Univar Coagulant 1160	Coagulation & Flocculation	250mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Aluminum Sulfate[AL]

Trade Designation	Product Function	Max Use
Aluminum Sulfate 40%	Coagulation & Flocculation	60mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Ammonium Sulfate

Trade Designation	Product Function	Max Use
Ammonium Sulfate Solution 40%	Chloramination	60mg/L

Ferric Chloride

Trade Designation	Product Function	Max Use
Ferric Chloride 37-42%	Coagulation & Flocculation	250mg/L

Ferric Sulfate

Trade Designation	Product Function	Max Use
Ferric Sulfate 50%	Coagulation & Flocculation	600mg/L

Hydrogen Peroxide [HP]

Trade Designation	Product Function	Max Use
Hydrogen Peroxide 27%[2]	Oxidant	3.9mg/L
Hydrogen Peroxide 34%	Oxidant	3mg/L
Hydrogen Peroxide 35%[3]	Oxidant	3mg/L
Hydrogen Peroxide 50%[4]	Oxidant	2.1mg/L

[2] The 27% solution may be used for sulfide control and in conjunction with ozone for organic control at a concentration use level of 111 mg/L when followed by chlorination of the treated water.

[3] The 35% solution may be used for sulfide control and in conjunction with ozone for organic control at a concentration use level of 85 mg/L when followed by chlorination of the treated water.

[4] The 50% solution may be used for sulfide control and in conjunction with ozone for organic control at a concentration use level of 60 mg/L when followed by chlorination of the treated water.

[HP] Use of this product shall be followed by chlorination to remove levels of hydrogen peroxide. Chlorine residuals shall not exceed 4 mg/L, the EPA's proposed maximum residual level.

Hydroxyethylidene Diphosphonic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caflon PP2010	Distillation Antiscalant	10mg/L
	Reverse Osmosis Antiscalant	

Miscellaneous Treatment Chemical

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
CAFLON SAFE ACID 6	Distillation Antiscalant	80mg/L
	Reverse Osmosis Antiscalant	

Sodium Bicarbonate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Soda Ash 15% Solution	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Carbonate 15% Solution	Corrosion & Scale Control	100mg/L
	pH Adjustment	

Sodium Bisulfate[5]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sodium Bisulfate 25%	Dechlorination	46mg/L
Sodium Bisulfate 38-40%	Dechlorination	46mg/L

[5] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 32%	pH Adjustment	156mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 32%	pH Adjustment	156mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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Liquichlor 12.5%	Disinfection & Oxidation	84mg/L
Liquichlor 12.5% Solution	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Sodium Silicate

Trade Designation	Product Function	Max Use
Sodium Silicate - Liquid (All Grades)	Corrosion & Scale Control	25mg/L

Sulfuric Acid

Trade Designation	Product Function	Max Use
Sulfuric Acid 93%	pH Adjustment	50mg/L

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

Facility : Distribution Center - Santa Fe Springs, CA

Citric Acid[1]

Trade Designation	Product Function	Max Use
Citric Acid, 50%	Membrane Cleaner	NA

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

Hydrochloric Acid

Trade Designation	Product Function	Max Use
Hydrochloric Acid 15%	pH Adjustment	93mg/L
Hydrochloric Acid 20%	pH Adjustment	70mg/L
Hydrochloric Acid 31%	pH Adjustment	45mg/L
Hydrochloric Acid 35%	pH Adjustment	40mg/L

Miscellaneous Water Supply Products[2]

Trade Designation	Product Function	Max Use
Nitric Acid 30%	Other	3mg/L
Nitric Acid 35%	Other	3mg/L

Nitric Acid 50%	Other	2mg/L
Nitric Acid 67%	Other	1mg/L

[2] This product functions as a system cleaning aid.

Phosphoric Acid

Trade Designation	Product Function	Max Use
Phosphoric Acid, 36%	Corrosion & Scale Control	28mg/L
Phosphoric Acid, 75%	Corrosion & Scale Control	13mg/L
Phosphoric Acid, 85%	Corrosion & Scale Control	12mg/L

Sodium Bisulfite[3]

Trade Designation	Product Function	Max Use
Sodium Bisulfite 38-40%	Dechlorination	46mg/L
Sodium Bisulfite 25%	Dechlorination	46mg/L

[3] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

Sodium Hydroxide

Trade Designation	Product Function	Max Use
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 32%	pH Adjustment	156mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 32%	pH Adjustment	156mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

Sodium Hypochlorite[HY]

Trade Designation	Product Function	Max Use
Sodium Hypochlorite 10%	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5%	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 5.25%	Disinfection & Oxidation	200mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Sodium Polyphosphates, Glassy

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Calaway	Corrosion & Scale Control	56mg/L

Sulfuric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sulfuric Acid, 20%	pH Adjustment	233mg/L
Sulfuric Acid, 25%	pH Adjustment	186mg/L
Sulfuric Acid, 30%	pH Adjustment	153mg/L
Sulfuric Acid, 33%	pH Adjustment	141mg/L
Sulfuric Acid, 36%	pH Adjustment	129mg/L
Sulfuric Acid, 50%	pH Adjustment	93mg/L
Sulfuric Acid, 70%	pH Adjustment	66mg/L
Sulfuric Acid, 74%	pH Adjustment	63mg/L
Sulfuric Acid, 78%	pH Adjustment	60mg/L
Sulfuric Acid, 93%	pH Adjustment	50mg/L

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

Facility : Distribution Center - Stockton, CA

Sodium Bisulfite

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
SODIUM BISULFITE 25%[1]	Dechlorination	46mg/L

[1] This product contains sulfite.

Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals.

The maximum recommended allowable

residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L)

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

Facility : Distribution Center - Wilmington, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 3%	pH Adjustment	1667mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 3%	pH Adjustment	1667mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

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

Facility : Fresno, CA

Citric Acid[1]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid 50%	Membrane Cleaner	NA

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacturer's use instructions.

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide	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 : Redwood City, CA

Calcium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Calcium Hydroxide Neutralac SLS45	pH Adjustment	300mg/L

Citric Acid[1]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid, 50%	Membrane Cleaner	NA

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following manufacture's use instructions.

Hydrochloric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Hydrochloric Acid 10%	pH Adjustment	140mg/L
Hydrochloric Acid 15%	pH Adjustment	93mg/L
Hydrochloric Acid 20%	pH Adjustment	70mg/L
Hydrochloric Acid 25%	pH Adjustment	56mg/L
Hydrochloric Acid 28%	pH Adjustment	50mg/L
Hydrochloric Acid 31%	pH Adjustment	45mg/L
Hydrochloric Acid 35%	pH Adjustment	40mg/L

Phosphoric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Phosphoric Acid, 75%	Corrosion & Scale Control	13mg/L

Potassium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Potassium Hydroxide 45%	pH Adjustment	100mg/L

Sodium Bisulfite[2]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sodium Bisulfite 25%	Dechlorination	46mg/L
Sodium Bisulfite 42%	Dechlorination	46mg/L

[2] This product contains sulfite. Sulfites have been known to cause potentially lethal allergic reactions in sulfite-sensitive individuals. The maximum recommended allowable residual sulfite level in the finished drinking water is 100 ppb (0.1 mg/L).

Sodium Hydroxide

Trade Designation	Product Function	Max Use
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 33%	pH Adjustment	152mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

Sodium Hypochlorite[HY]

Trade Designation	Product Function	Max Use
Sodium Hypochlorite 12.5%	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Sulfuric Acid

Trade Designation	Product Function	Max Use
Sulfuric Acid, 20%	pH Adjustment	233mg/L
Sulfuric Acid, 25%	pH Adjustment	186mg/L
Sulfuric Acid, 30%	pH Adjustment	153mg/L
Sulfuric Acid, 33%	pH Adjustment	141mg/L
Sulfuric Acid, 36%	pH Adjustment	129mg/L
Sulfuric Acid, 50%	pH Adjustment	93mg/L
Sulfuric Acid, 70%	pH Adjustment	66mg/L
Sulfuric Acid, 74%	pH Adjustment	63mg/L
Sulfuric Acid, 78%	pH Adjustment	60mg/L
Sulfuric Acid, 93%	pH Adjustment	50mg/L

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

Facility : San Pedro, CA

Sodium Hydroxide

Trade Designation	Product Function	Max Use
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 3%	pH Adjustment	1667mg/L

Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 3%	pH Adjustment	1667mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	165mg/L

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

Facility : Visalia, CA

Calcium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Calcium Hydroxide Neutralac SLS45	pH Adjustment	300mg/L

Citric Acid[1]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid, 50%	Membrane Cleaner	NA

[1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.

Hydrochloric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Hydrochloric Acid 15%	pH Adjustment	93mg/L
Hydrochloric Acid 20%	pH Adjustment	70mg/L
Hydrochloric Acid 31%	pH Adjustment	45mg/L
Hydrochloric Acid 35%	pH Adjustment	40mg/L

Miscellaneous Treatment Chemical

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
HCL/Citric Blend	pH Adjustment	40mg/L
Hydrochloric / Citric Acid Blend	pH Adjustment	40mg/L

Potassium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Potassium Hydroxide 45%	pH Adjustment	100mg/L

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
--------------------------	-------------------------	----------------

Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

Sodium Hypochlorite[HY]

Trade Designation	Product Function	Max Use
Sodium Hypochlorite 12.5%	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Sodium Polyphosphates, Glassy

Trade Designation	Product Function	Max Use
Calaway	Corrosion & Scale Control	56mg/L

Sulfuric Acid

Trade Designation	Product Function	Max Use
Sulfuric Acid 36%	Corrosion & Scale Control pH Adjustment	129mg/L
Sulfuric Acid 50%	Corrosion & Scale Control pH Adjustment	93mg/L
Sulfuric Acid 93%	Corrosion & Scale Control pH Adjustment	50mg/L

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

Facility : Denver, CO

Ammonium Sulfate

Trade Designation	Product Function	Max Use
Ammonium Sulfate 40%	Chloramination	60mg/L

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

Facility : Richmond, VA

Sulfuric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sulfuric Acid, 93-99%	pH Adjustment	50mg/L

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

Facility : Distribution Center - Vancouver, WA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	Corrosion & Scale Control	333mg/L
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
Caustic Soda 30%	Corrosion & Scale Control	165mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control	333mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

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

Facility : Distribution Center – Spokane, WA

Sodium Hydroxide

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

Facility : Distribution Center - Vancouver, WA**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	Corrosion & Scale Control	333mg/L
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
Caustic Soda 30%	Corrosion & Scale Control	165mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control	333mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

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

Facility : Distribution Center – Spokane, WA**Sodium Hydroxide**

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

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

Facility : Kent, WA**Aluminum Chlorohydrate[AL]**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Univar Coagulant 1160	Coagulation & Flocculation	250mg/L

CERTIFICATE OF CONFORMANCE

Sodium Hydroxide, 20% Solution - Membrane Grade

(produced via the dilution of 50% caustic soda solution with water)

IMTT TANK 20013

Richmond, CA

Customer: Bay Area Chemical Consortium, CA

Date of Delivery: _____

Order Number: _____

Shipper ID: _____

Property	Unit	Result ¹	BACC Specs
Sodium Hydroxide (NaOH)	Wt. %	20.00	19 – 21
Sodium Oxide (Na ₂ O)	Wt. %	15.50	14.37 – 16.28
Sodium Chloride (NaCl)	PPM	22	100 MAX
Sodium Carbonate (Na ₂ CO ₃)	Wt. %	0.03	0.15 MAX
Sodium Chlorate (NaClO ₃)	PPM	12	20 MAX
Sodium Sulfate (Na ₂ SO ₄)	PPM	15	80 MAX
Iron (Fe)	PPM	0.3	5 MAX*
Nickel (Ni)	PPM	0.3	0.5 MAX*
Mercury (Hg)	PPM	1	2 MAX
Color / Appearance		Clear & Bright	
Specific Gravity @ 60/60		1.223	1.2124 – 1.2344
Density @ 60°F	lbs/gal	10.200	

* Sodium Hydroxide for wastewater treatment applications may contain up to 9 ppm for iron (Fe) and 3ppm for nickel (Ni)

¹ Impurity levels are calculated based on the levels in the 50% source material

Effective Date: 1/4/2025

Replaces: 10/22/2024

Testing Company: Intertek

Survey Number: US410-0022664

Shipment Information: Bochem Pegasos V.2408

Lot Number: 4527262335/BatchNo.B527262335

Manufacturer: FPC Taiwan

(Last Receipt)

**Date of Manufacture: 11/28/2024

Signature: Jackie Scalzi

Print Name: Jackie Scalzi

Job Title: Vessel Logistics Mgr.



Maximum Use Level: 250 mg/L (20% Sodium Hydroxide)

When tested, this product meets the testing requirements of the Food Chemicals Codex, Monograph (FCC), current edition.

This product is Kosher certified.

*Manufacture Date is indicative only as Caustic Soda Production is a continuous cycle and an actual manufacture date cannot be specifically represented. This date is when the product was loaded at the producer's plant. Actual production date is estimated to be within one month prior to this date.

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 LLC, ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar 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's standard Terms and Conditions, available at www.univarsolutions.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

QA 6.20 x 4: 8/19/2015

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CAUSTIC SODA 20%

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 20%

Manufacturer or supplier's details

Company : Univar Solutions USA

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: 1-855-429-2661
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 : H290 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.
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

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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	20 - 30

Actual concentration is withheld as a trade secret
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 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.

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Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| 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 | : 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 | : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and |

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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
		C	2 mg/m3	CAL PEL

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 : 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 : No data available
Odour : No data available
Odour Threshold : No data available
pH : No data available

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Freezing Point (Freezing Point)	: < -35 °C (< -31 °F)
Boiling Point	: No data available
Flash point	: > 101 °C (> 214 °F)
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	: 1.22 - 1.23
Density	: 10.23 lb/gal
Water solubility	: No data available
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

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 decomposition if stored and applied as directed.
Conditions to avoid	: Exposure to moisture temperature extremes
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:**

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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.

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.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****1310-73-2:**

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia): 40.38 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: Immobilization

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 manufac-

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tured 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).

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: 1-800-637-7922

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:> 101 °C(> 214 °F)

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	4901

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

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

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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 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater 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

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

Safety Data Sheet

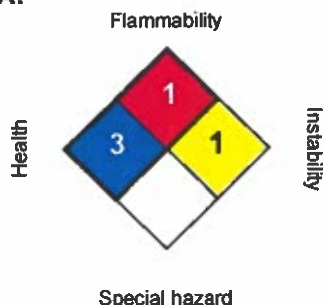
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SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3/
FLAMMABILITY	1
PHYSICAL HAZARD	4

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 : 01/20/2025

Material number:

16221445, 16221444, 16221443, 16221442, 16212545, 16193365, 16191666, 16191667, 16170017, 16188968, 16188877, 16188855, 16160839, 16158862, 16168959, 16168217, 16170945, 16164464, 16164324, 16164313, 16164738, 16156587, 16154002, 16156319, 16172347, 16153870, 16155538, 16161020, 16160324, 16160497, 16152994, 16155178, 16146333, 16147878, 16154226, 16145944, 16153005, 16152704, 16145241, 16146002, 16147845, 16143381, 16143388, 16141133, 16142306, 16141295, 16133683, 542058, 69095, 86948, 70679, 87290, 21980

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

Safety Data Sheet

CAUSTIC SODA 20%

Version 1.7

Revision Date: 01/20/2025

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%		

CERTIFICATE OF CONFORMANCE

Sodium Hydroxide, 25% Solution - Membrane Grade

(produced via the dilution of 50% caustic soda solution with water)

IMTT TANK 20013

Richmond, CA

Customer: Bay Area Chemical Consortium, CA

Date of Delivery: _____

Order Number: _____

Shipper ID: _____

<u>Property</u>	<u>Unit</u>	<u>Result¹</u>	<u>BACC Specs</u>
Sodium Hydroxide (NaOH)	Wt. %	25.00	23 – 27
Sodium Oxide (Na ₂ O)	Wt. %	19.37	15.5 – 20.2
Sodium Chloride (NaCl)	PPM	28	100 MAX
Sodium Carbonate (Na ₂ CO ₃)	Wt. %	0.04	0.15 MAX
Sodium Chlorate (NaClO ₃)	PPM	15	26 MAX
Sodium Sulfate (Na ₂ SO ₄)	PPM	19	80 MAX
Iron (Fe)	PPM	0.3	5 MAX*
Nickel (Ni)	PPM	0.3	0.5 MAX*
Mercury (Hg)	PPM	1	2 MAX
Color / Appearance		Clear & Bright	
Specific Gravity @ 60/60		1.279	1.20 – 1.35
Density @ 60°F	lbs/gal	10.660	

* Sodium Hydroxide for wastewater treatment applications may contain up to 9 ppm for iron (Fe) and 3ppm for nickel (Ni)

¹ Impurity levels are calculated based on the levels in the 50% source material

Effective Date: 1/4/2025

Replaces: 10/22/2024

Testing Company: Intertek

Survey Number: US410-0022664

Shipment Information: Bochem Pegasos V.2408

Lot Number: 4527262335/BatchNo.8527262335

Manufacturer: FPC Taiwan

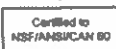
(Last Receipt)

**Date of Manufacture: 11/28/2024

Signature: Jackie Scalzi

Print Name: Jackie Scalzi

Job Title: Vessel Logistics Mgr.



Maximum Use Level: 200 mg/L (25% Sodium Hydroxide)

When tested, this product meets the testing requirements of the Food Chemicals Codex, Monograph (FCC), current edition.

This product is Kosher certified.

*Manufacture Date is indicative only as Caustic Soda Production is a continuous cycle and an actual manufacture date cannot be specifically represented. This date is when the product was loaded at the producer's plant. Actual production date is estimated to be within one month prior to this date.

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 LLC. ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar 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's standard Terms and Conditions, available at www.univarsolutions.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

QA 6.20 x 4: 8/19/2015

Safety Data Sheet

CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 25%

Recommended use of the chemical and restrictions on use

Recommended use : Reserved for industrial and professional use.

Restrictions on use : None known.

Manufacturer or supplier's details

Company : Univar Solutions USA

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: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**
P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Safety Data Sheet
CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

P271 Use only outdoors or in a well-ventilated area.
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.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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	20 - 30

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.

Safety Data Sheet

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Version 1.11

Revision Date: 01/20/2025

- | | |
|-------------------------|---|
| 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 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

- | | |
|---|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| 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 | : Neutralise with acid. |

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CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

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.

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.

Recommended storage temperature : > 10 °C

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
		C	2 mg/m3	CAL PEL

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

Safety Data Sheet

CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

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	: 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	: colourless
Odour	: odourless
Odour Threshold	: No data available
pH	: 14 @ 20 - 25 °C (68 - 77 °F)
Freezing Point (Freezing Point)	: -18 °C (-0.40 °F)
Boiling Point	: No data available
Flash point	: 94 °C (201 °F) 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 @ 20 - 25 °C (68 - 77 °F) Reference substance: (water = 1)
Density	: No data available
Water solubility	: No data available
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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
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Safety Data Sheet
CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

Chemical stability	: Stable under normal conditions.
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.
Incompatible materials	: Acids Halogenated compounds Metals organic nitro compounds Zinc

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,961 mg/kg

Skin corrosion/irritation**Product:**

Result: Causes burns.

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.

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.

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Version 1.11

Revision Date: 01/20/2025

STOT - single exposure**Product:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****1310-73-2:**

Toxicity to fish : LC50 (*Gambusia affinis* (Mosquito fish)): 125 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Ceriodaphnia dubia*): 40.38 mg/l
Exposure time: 48 h
Test Type: Immobilization

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).

Additional ecological information : No data available

Safety Data Sheet
CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

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: 1-800-637-7922
- 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: 1-800-637-7922
- 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: 94 °C (201 °F)

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	3921

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
- Acute toxicity (any route of exposure)
- Specific target organ toxicity (single or repeated exposure)

Safety Data Sheet
CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

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 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater 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 TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : Not in compliance with the inventory

NZIoC : Not 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

Safety Data Sheet

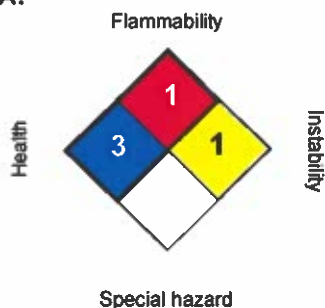
CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	4

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 : 01/20/2025

Material number:

16221451, 16221450, 16221449, 16221448, 16221447, 16221446, 16217001, 16214886, 16214622, 16214617, 16214616, 16214613, 16215333, 16212546, 16212036, 16209256, 16197210, 16206616, 16206171, 16181533, 16192173, 16192016, 16132255, 16158399, 16146684, 16182270, 16148128, 16162026, 16188797, 16145004, 16188640, 16163721, 16162553, 16147855, 16151729, 16147016, 16002081, 16002153, 16163814, 16181444, 16185708, 16185366, 16178437, 16176600, 16176259, 16175654, 16175444, 16175415, 16174721, 16176744, 16170086, 16169860, 16169683, 16146335, 16146334, 16143884, 16145401, 16145323, 16145278, 16145243, 16145242, 16125921, 16116103, 16113730, 755848, 650799, 546389, 70561, 53072, 574261, 53570, 16150734, 16149350, 16149457, 16144981, 16145777, 16147137, 16163653, 102698, 16160832, 16137556, 16137474, 16137324, 16152197, 16152426, 16144481, 16147885, 16159715, 16143521, 16160487, 16160771, 16160572, 16160486, 16147888, 16147884, 16147854, 16147799, 16148872, 16144724, 16144461

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
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NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health

Safety Data Sheet

CAUSTIC SODA 25%

Version 1.11

Revision Date: 01/20/2025

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 Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
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MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
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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%		

CERTIFICATE OF CONFORMANCE

Caustic Soda 30% Solution

(produced via the dilution of 50% caustic soda solution with water)

IMTT TANK 20013

Richmond, CA

Customer: **Bay Area Chemical Consortium, CA**

Date of Delivery: _____

Order Number: _____

Shipper ID: _____

<u>Property</u>	<u>Unit</u>	<u>Result¹</u>	<u>BACC Specs</u>
Sodium Hydroxide (NaOH)	Wt. %	30.00	29 – 32
Sodium Oxide (Na ₂ O)	Wt. %	23.24	22.5 – 23.7
Sodium Chloride (NaCl)	PPM	33	100 MAX
Sodium Carbonate (Na ₂ CO ₃)	Wt. %	0.05	0.15 MAX
Sodium Chlorate (NaClO ₃)	PPM	17	31 MAX
Sodium Sulfate (Na ₂ SO ₄)	PPM	22	80 MAX
Iron (Fe)	PPM	0.4	5 MAX*
Nickel (Ni)	PPM	0.4	0.5 MAX*
Mercury (Hg)	PPM	1	2 MAX
Color / Appearance		Clear & Bright	
Specific Gravity @ 60/60		1.333	1.25 – 1.40
Density @ 60°F	lbs/gal	11.110	

* Sodium Hydroxide for wastewater treatment applications may contain up to 9 ppm for iron (Fe) and 3ppm for nickel (Ni)

¹ Impurity levels are calculated based on the levels in the 50% source material

Effective Date: 1/4/2025

Replaces: 10/22/2024

Testing Company: Intertek

Survey Number: US410-0022664

Shipment Information: Bochem Pegasos V.2408

Lot Number: 4527262335/BatchNo.B527262335

Manufacturer: FPC Taiwan

(Last Receipt)

**Date of Manufacture: 3/24/2024



Certified to
NSF/ANSI CAN 60

Maximum Use Level: 165 mg/L (30% Sodium Hydroxide)

Signature: Jackie Scalzi

Print Name: Jackie Scalzi

Job Title: Vessel Logistics Mgr.

When tested, this product meets the testing requirements of the Food Chemicals Codex, Monograph (FCC), current edition.

This product is Kosher certified.

* Manufacture Date is indicative only as Caustic Soda Production is a continuous cycle and an actual manufacture date cannot be specifically represented. This date is when the product was loaded at the producer's plant. Actual production date is estimated to be within one month prior to this date.

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 LLC. ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar 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's standard Terms and Conditions, available at www.univarsolutions.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

QA 6.20 x 4: 8/19/2015

Safety Data Sheet

CAUSTIC SODA 30%

Version 1.12

Revision Date: 01/16/2024

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 30%

Recommended use of the chemical and restrictions on use

Recommended use : Reserved for industrial and professional use.

Manufacturer or supplier's details

Company : Univar Solutions USA
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: 1-855-429-2661
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 : H290 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.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

Safety Data Sheet

CAUSTIC SODA 30%

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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	30 - 50

Actual concentration is withheld as a trade secret

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 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.

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Revision Date: 01/16/2024

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

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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	: 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

Safety Data Sheet

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- Conditions for safe storage : regulations.
: 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.
- Recommended storage temperature : > 16 °C

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
		C	2 mg/m ³	CAL PEL

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 : 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

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Appearance	: liquid
Colour	: No data available
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Freezing Point (Melting point/freezing point)	: > 0 °C (> 32 °F)
Boiling Point	: No data available
Flash point	: > 93 °C (> 199 °F)
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	: 1.32 - 1.34
Density	: 11.10 lb/gal @ 20 °C (68 °F)
Water solubility	: No data available
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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Exposure to moisture
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.

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Revision Date: 01/16/2024

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.

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.

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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Version 1.12

Revision Date: 01/16/2024

Additional ecological information : No data available

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: 1-800-637-7922

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:> 93 °C(> 199 °F)

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	3236

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

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.

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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 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater 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	: Not 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

Safety Data Sheet

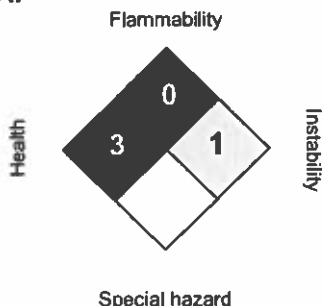
CAUSTIC SODA 30%

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SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	4

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 : 01/16/2024

Legacy SDS: : R0023558

Material number:

16212040, 16205048, 16204950, 16180311, 16180341, 16178366, 16176254, 16176472, 16174796, 16140662, 16151737, 16168268, 16168813, 16169789, 16164733, 16164288, 16164325, 16164319, 16158080, 16159265, 16155789, 16154356, 16153556, 16167048, 16154041, 16158234, 16153712, 16152706, 16153016, 89846, 16045900, 16045899, 16160602, 16145475, 16137411, 16155875, 16155661, 16136682, 16160594, 16160484, 16160449, 16160687, 16160569, 16160762, 16147947, 16147859, 16147857, 16156762, 16154201, 16151717, 16153874, 16158563, 16152707, 16147948, 16147789, 16145778, 16136097, 16135337, 16147861, 16142638

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

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CAUSTIC SODA 30%

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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%		

CERTIFICATE OF ANALYSIS
Sodium Hydroxide, 50% Solution
IMTT TANK 20013
Richmond, CA

Customer: **Bay Area Chemical Consortium, CA**

Date of Delivery: _____

Order Number: _____

Shipper ID: _____

<u>Property</u>	<u>Unit</u>	<u>Result</u>	<u>BACC Specs</u>
Sodium Hydroxide (NaOH)	Wt. %	49.63	48 – 52
Sodium Oxide (Na ₂ O)	Wt. %	38.45	37.7 – 40.4
Sodium Chloride (NaCl)	PPM	54	100 MAX
Sodium Carbonate (Na ₂ CO ₃)	Wt. %	0.07	0.30 MAX
Sodium Chlorate (NaClO ₃)	PPM	28	50 MAX
Sodium Sulfate (Na ₂ SO ₄)	PPM	36	100 MAX
Iron (Fe)	PPM	0.5	5 MAX*
Nickel (Ni)	PPM	0.5	0.5 MAX*
Mercury (Hg)	PPM	<1	2 MAX
Color / Appearance		Clear & Bright	
Specific Gravity @ 60/60		1.5304	1.45 – 1.60
Density @ 60°F	lbs/gal	12.7455	

* Sodium Hydroxide for wastewater treatment applications may contain up to 9 ppm for iron (Fe) and 3ppm for nickel (Ni)

Effective Date: 1/4/2025

Replaces: 10/22/2024

Testing Company: Intertek

Survey Number: US410-0022664

Shipment Information: Bochem Pegasos V.2408

Lot Number: 4527262335/BatchNo.BS27262335

Manufacturer: FPC Taiwan

(Last Receipt)



Signature: Jackie Scalzi

Print Name: Jackie Scalzi

Job Title: Vessel Logistics Mgr.

Maximum Use Level: 100 mg/L (50% Sodium Hydroxide)

When tested, this product meets the testing requirements of the Food Chemicals Codex, Monograph (FCC), current edition.
This product is Kosher certified.

*Manufacture Date is indicative only as Caustic Soda Production is a continuous cycle and an actual manufacture date cannot be specifically represented. This date is when the product was loaded at the producer's plant. Actual production date is estimated to be within one month prior to this date.

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 LLC. ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar 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's standard Terms and Conditions, available at www.univarsolutions.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

QA 6.20 x 4: 8/19/2015

Safety Data Sheet

CAUSTIC SODA 50%

Version 1.10

Revision Date: 11/11/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 50%

Recommended use of the chemical and restrictions on use

Recommended use : Reserved for industrial and professional use.

Manufacturer or supplier's details

Company : Univar Solutions USA
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: 1-855-429-2661
 Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**
 P234 Keep only in original container.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.

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CAUSTIC SODA 50%

Version 1.10

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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.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

Actual concentration is withheld as a trade secret

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 difficul-

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CAUSTIC SODA 50%

Version 1.10

Revision Date: 11/11/2023

- | | |
|------------------------|--|
| In case of eye contact | <p>ty.
If on skin, rinse well with water.
If on clothes, remove clothes.</p> <p>: 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.</p> |
| If swallowed | <p>: 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.</p> |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Suitable extinguishing media | <p>: Carbon dioxide (CO₂)
Foam
Dry powder
Water mist</p> |
| Unsuitable extinguishing media | <p>: High volume water jet</p> |
| Specific hazards during fire-fighting | <p>: Do not allow run-off from fire fighting to enter drains or water courses.</p> |
| Hazardous combustion products | <p>: No hazardous combustion products are known</p> |
| Further information | <p>: 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.</p> |
| Special protective equipment for firefighters | <p>: Wear self-contained breathing apparatus for firefighting if necessary.</p> |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | <p>: Use personal protective equipment.</p> |
| Environmental precautions | <p>: 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.</p> |
| Methods and materials for | <p>: Soak up with inert absorbent material (e.g. sand, silica gel,</p> |

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Version 1.10

Revision Date: 11/11/2023

containment and cleaning up : 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 : 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.

Recommended storage temperature : 16 - 65 °C

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
		C	2 mg/m3	CAL PEL

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

Safety Data Sheet

CAUSTIC SODA 50%

Version 1.10

Revision Date: 11/11/2023

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	: 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	: No data available
Odour	: No data available
Odour Threshold	: No data available
pH	: 14
Freezing Point (Melting point/freezing point)	: 12 - 15 °C (54 - 59 °F)
Boiling Point (Boiling point/boiling range)	: 140 - 145 °C (284 - 293 °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	: 1.5298
Density	: 12.76 lb/gal
Water solubility	: No data available
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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Corrosive to metals Exothermic reaction with acids.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Freezing temperatures.

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Incompatible materials	: Heat Acids Metals Oxidizing agents Halogenated compounds organic nitro compounds Zinc
Hazardous decomposition products	: Hydrogen

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.

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.

STOT - single exposure**Product:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Further information**Product:**

Remarks: No data available

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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).

Additional ecological information : No data available

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: 1-800-637-7922

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

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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	2000

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
Acute toxicity (any route of exposure)
Specific target organ toxicity (single or repeated exposure)

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).

Clean Water Act

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

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater 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

1310-73-2 Sodium hydroxide

7732-18-5 Water

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.

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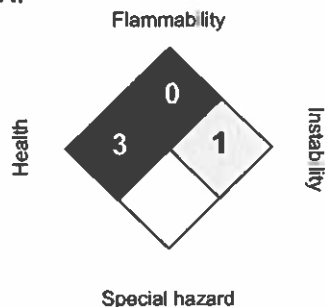
Revision Date: 11/11/2023

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	: Not 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	4

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 : 11/11/2023

Material number:

16212043, 16212042, 16212041, 16212039, 16212038, 16210888, 16149051, 16210426, 16208930, 16208441, 16207958, 16207089, 16206212, 16206172, 16195419, 16196593, 16203117, 16193663, 16191539, 16188943, 16188859, 16188905, 40509, 16144372, 85833, 16187875, 16187706, 16187503, 16187172, 16184289, 16184571, 16183215, 16183115,

Safety Data Sheet

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Revision Date: 11/11/2023

16181535, 16174812, 16176162, 16176725, 16175550, 16177057, 16176719, 16176286, 16175611, 16175549, 16177342, 16174633, 16176146, 16175652, 16175317, 16174795, 16174563, 16176924, 16180636, 16169042, 16168322, 16168270, 16168140, 16168139, 16179411, 16169006, 16168617, 16150547, 16162842, 16162538, 16144429, 16173515, 16168911, 16162950, 16162022, 16144216, 16143594, 16162020, 16168720, 16166706, 16152119, 16173289, 16179365, 16166192, 16137935, 16161861, 16143735, 16151817, 85472, 52714, 71460, 54298, 16168314, 16146819, 16163462, 16148908, 16144035, 16166958, 16166445, 16137825, 16151508, 16151289, 16160192, 16147037, 16156058, 16155066, 16135486

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 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%		



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
06/06/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services Central, Inc. Philadelphia PA Office 100 North 18th Street 15th Floor Philadelphia PA 19103 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105 E-MAIL ADDRESS:																					
INSURED Univar Solutions USA LLC 3075 Highland Parkway Suite 200 Downers Grove IL 60515 USA	<table><tr><th colspan="2">INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A:</td><td>ACE American Insurance Company</td><td>22667</td></tr><tr><td>INSURER B:</td><td>ACE Fire Underwriters Insurance Co.</td><td>20702</td></tr><tr><td>INSURER C:</td><td>Indemnity Insurance Co of North America</td><td>43575</td></tr><tr><td>INSURER D:</td><td></td><td></td></tr><tr><td>INSURER E:</td><td></td><td></td></tr><tr><td>INSURER F:</td><td></td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	ACE American Insurance Company	22667	INSURER B:	ACE Fire Underwriters Insurance Co.	20702	INSURER C:	Indemnity Insurance Co of North America	43575	INSURER D:			INSURER E:			INSURER F:		
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INSURER D:																						
INSURER E:																						
INSURER F:																						

COVERAGES **CERTIFICATE NUMBER:** 570106229214 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS												
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		XSLG47311172 SIR applies per policy terms & conditions	06/07/2024	06/01/2025	<table><tr><td>EACH OCCURRENCE</td><td>\$3,000,000</td></tr><tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td>\$3,000,000</td></tr><tr><td>MED EXP (Any one person)</td><td>Excluded</td></tr><tr><td>PERSONAL & ADV INJURY</td><td>\$3,000,000</td></tr><tr><td>GENERAL AGGREGATE</td><td>\$3,000,000</td></tr><tr><td>PRODUCTS COMP/OP AGG</td><td>\$3,000,000</td></tr></table>	EACH OCCURRENCE	\$3,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$3,000,000	MED EXP (Any one person)	Excluded	PERSONAL & ADV INJURY	\$3,000,000	GENERAL AGGREGATE	\$3,000,000	PRODUCTS COMP/OP AGG	\$3,000,000
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GENERAL AGGREGATE	\$3,000,000																	
PRODUCTS COMP/OP AGG	\$3,000,000																	
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY		ISA H10704741 Commercial Auto	06/07/2024	06/01/2025	<table><tr><td>COMBINED SINGLE LIMIT (Ea accident)</td><td>\$5,000,000</td></tr><tr><td>BODILY INJURY (Per person)</td><td></td></tr><tr><td>BODILY INJURY (Per accident)</td><td></td></tr><tr><td>PROPERTY DAMAGE (Per accident)</td><td></td></tr></table>	COMBINED SINGLE LIMIT (Ea accident)	\$5,000,000	BODILY INJURY (Per person)		BODILY INJURY (Per accident)		PROPERTY DAMAGE (Per accident)					
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PROPERTY DAMAGE (Per accident)																		
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AGGREGATE																		
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR, PARTNER, EXECUTIVE OFFICER MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N <input type="checkbox"/> A	WLRC70303772 AOS SCFC70303735 WI	06/07/2024	06/01/2025	<table><tr><td><input checked="" type="checkbox"/> PER STATUTE</td><td><input type="checkbox"/> OTH-ER</td></tr><tr><td>E L EACH ACCIDENT</td><td>\$1,000,000</td></tr><tr><td>E L DISEASE-EA EMPLOYEE</td><td>\$1,000,000</td></tr><tr><td>E L DISEASE-POLICY LIMIT</td><td>\$1,000,000</td></tr></table>	<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTH-ER	E L EACH ACCIDENT	\$1,000,000	E L DISEASE-EA EMPLOYEE	\$1,000,000	E L DISEASE-POLICY LIMIT	\$1,000,000				
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E L DISEASE-POLICY LIMIT	\$1,000,000																	
B				06/07/2024	06/01/2025													

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of Insurance.

CERTIFICATE HOLDER

Univar Solutions USA LLC
dba Univar Solutions USA
3075 Highland Parkway, Suite 200
Downers Grove IL 60515 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Central Inc

Holder Identifier :

Certificate No : 570106229214



Page _ of _

AGENCY Aon Risk Services Central, Inc.		NAMED INSURED Univar Solutions USA LLC
POLICY NUMBER See Certificate Number: 570106229214		
CARRIER See Certificate Number: 570106229214	NAIC CODE	EFFECTIVE DATE:

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance**

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

[illegible]