

**Univar Solutions USA LLC.**

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

T 253-872-5040

F 253-572-5041

[www.univarusa.com](http://www.univarusa.com)



February 16, 2024

Bay Area Clean Water Agencies

RE: Bid for Sodium Hydroxide, BACC Bid No. 13-2024

To Whom it may concern:

Univar Solutions USA LLC. is pleased to offer a price quote on your ITB due Thursday, February 22, 2024, 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](mailto:Muniteam-west@univarsolutions.com)

[www.univarsolutions.com](http://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.



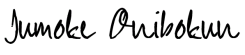
**CERTIFICATE OF SECRETARY**

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 4<sup>th</sup> day of January 2024.

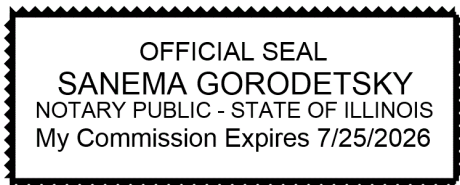
DocuSigned by:  
  
 F781477FB84F470...


Jumoke Onibokun, Assistant Secretary

State of Illinois        )  
                                   )  
 County of DuPage     )

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

Seal



DocuSigned by:  
  
 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](http://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

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

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

Office Phone: (800) 659-5908  
Office Fax: (408) 435-1735  
Customer Service: (800) 659-5908

[CustSolWR@univarsolutions.com](mailto:CustSolWR@univarsolutions.com)

### **Sales Contact:**

Danielle Pruett  
Sales Account Manager  
Phone: 559-365-0273  
[Danielle.Pruett@univarsolutions.com](mailto:Danielle.Pruett@univarsolutions.com)

### **For anything pertaining to bids:**

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

Univar Solutions USA Inc.  
Attn: WER Muni Team  
8201 S. 212<sup>th</sup>  
Kent, WA 98032-1994

Contacts: [muniteam-west@univarsolutions.com](mailto:muniteam-west@univarsolutions.com)

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

Roise Holiday  
Municipal Specialist  
(253) 872-5068  
(253) 872-5041  
[Roise.Holiday@univarsolutions.com](mailto:Roise.Holiday@univarsolutions.com)

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

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

**Remittance Address:**

Univar Solutions USA Inc.  
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).



**BAY AREA CHEMICAL CONSORTIUM**

**REQUEST FOR BIDS**

**BID NO. 12-2024**

**FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE**

**BID DUE DATE: 4:00 P.M. PT, Thursday, February 22, 2024**

**BID OPENING DATE: 4:00 P.M. PT, Thursday, February 22, 2024**

**Coordinating Agency:**

**Bay Area Clean Water Agencies**

## **TABLE OF CONTENTS**

	Page No.
Notice Inviting Sealed Bids	3
<b><u>Section I – General</u></b>	
1. General Provisions	5
2. Instructions to Bidders	5
3. Special Instructions to Bidders	11
4. Terms and Conditions	16
<b><u>Section II – Technical Specifications</u></b>	
1. Product Technical Specifications	21
<b><u>Section III – Participating Agencies</u></b>	
1. Estimated Annual Quantities	31
2. Delivery Details	35
3. Contact List	40
<b><u>Section IV – Bid Contract Documents</u></b>	
1. Standard Agreement	46
2. Non-Collusion Affidavit	48
3. Bid Form and Worksheet	49

**NOTICE INVITING SEALED BIDS  
FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE  
BAY AREA CHEMICAL CONSORTIUM (BACC)  
BID NO. 12-2024**

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/bacc/> by **4:00 P.M. PT, Thursday, February 22, 2024**. 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. 12-2024  
SODIUM HYDROXIDE**

**BAY AREA CHEMICAL CONSORTIUM  
REQUEST FOR BIDS  
FOR SUPPLY AND DELIVERY OF SODIUM HYDROXIDE  
BID NO. 12-2024**

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 22, 2024.

**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 22, 2024. Bids received after said date and time will not be considered under any circumstances.

BACC and its member agencies reserve 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 22, 2024. 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 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.

### **3.10 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.

### **3.11 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.

### **3.12 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.

### **3.13 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.

### **3.14 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](mailto: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, 2024, and expiring June 30, 2025, 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. 12-2024  
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 <sub>2</sub> O	Wt %	14.37	16.28
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt %	0	.15
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	<1
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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 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 Na<sub>2</sub>O (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                            Na<sub>2</sub>O                      Wt %
- Sodium Sulfate                          Na<sub>2</sub>SO<sub>4</sub>                    PPM
- Sodium Chloride                        NaCl                      PPM
- Sodium Carbonate                      Na<sub>2</sub>CO<sub>3</sub>                    Wt %
- Sodium Chlorate                        NaClO<sub>3</sub> 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 <sub>2</sub> O	Wt %	15.5	20.2
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt %	0	0.15
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	25
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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:

- 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 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 Na<sub>2</sub>O (from lab report)/76.

3. Quality:

- a. 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.
- 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                              Na<sub>2</sub>O                      Wt %
- Sodium Sulfate                            Na<sub>2</sub>SO<sub>4</sub>                    PPM
- Sodium Chloride                          NaCl                        PPM
- Sodium Carbonate                        Na<sub>2</sub>CO<sub>3</sub>                    Wt %
- Sodium Chlorate                          NaClO<sub>3</sub>                    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 <sub>2</sub> O	Wt %	22.5	23.7
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt %	0	0.15
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	25
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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 Na<sub>2</sub>O (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                              Na<sub>2</sub>O                      Wt %
- Sodium Sulfate                            Na<sub>2</sub>SO<sub>4</sub>                    PPM
- Sodium Chloride                        NaCl                      PPM
- Sodium Carbonate                        Na<sub>2</sub>CO<sub>3</sub>                    Wt %
- Sodium Chlorate                         NaClO<sub>3</sub>                    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 <sub>2</sub> O	Wt %	37.7	40.4
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt %	0	0.30
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	25
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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 Na<sub>2</sub>O (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                      Na<sub>2</sub>O                      Wt %
- Sodium Sulfate                      Na<sub>2</sub>SO<sub>4</sub>                      PPM
- Sodium Chloride                      NaCl                      PPM
- Sodium Carbonate                      Na<sub>2</sub>CO<sub>3</sub>                      Wt %
- Sodium Chlorate                      NaClO<sub>3</sub>                      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. 12-2024  
SODIUM HYDROXIDE**

**BAY AREA CHEMICAL CONSORTIUM**  
**ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2024/2025**  
**BID NO. 12-2024**

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
<b>Sodium Hydroxide 20% (Caustic)</b>	<b>dry ton</b>	<b>8</b>	<b>23</b>
<b><u>Marin Sonoma</u></b>			
County of Sonoma	dry ton	0	23
		<b>0</b>	<b>23</b>
<b><u>Sacramento</u></b>			
City of Sacramento	dry ton	8	0
		<b>8</b>	<b>0</b>
<b>Sodium Hydroxide 25% (Caustic)</b>	<b>dry ton</b>	<b>749</b>	<b>1,161</b>
<b><u>Central Valley</u></b>			
City of Stockton	dry ton	110	325
City of Turlock	dry ton	53	0
		<b>163</b>	<b>325</b>
<b><u>Marin Sonoma</u></b>			
Napa Sanitation District	dry ton	0	80
		<b>0</b>	<b>80</b>
<b><u>Peninsula</u></b>			
City of San Mateo	dry ton	0	450
		<b>0</b>	<b>450</b>
<b><u>Sacramento</u></b>			
City of Roseville	dry ton	0	300
City of Sacramento	dry ton	42	0
El Dorado Irrigation District	dry ton	40	0
Nevada Irrigation District	dry ton	144	0
Sacramento County Water Agency	dry ton	100	0
		<b>326</b>	<b>300</b>
<b><u>South Bay</u></b>			
City of Sunnyvale	dry ton	0	6
		<b>0</b>	<b>6</b>
<b><u>Tri Valley</u></b>			
Zone 7 Water Agency	dry ton	260	0
		<b>260</b>	<b>0</b>

**ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2024/2025**  
**BID NO. 12-2024**

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
<b>Sodium Hydroxide 30% (Caustic)</b>	<b>dry ton</b>	<b>2,674</b>	<b>183</b>
<b><u>Marin Sonoma</u></b>			
County of Sonoma	dry ton	13	0
		<b>13</b>	<b>0</b>
<b><u>North Bay</u></b>			
Contra Costa Water District	dry ton	2,658	0
West County Wastewater District	dry ton	0	16
		<b>2,658</b>	<b>16</b>
<b><u>Sacramento</u></b>			
El Dorado Irrigation District	dry ton	0	167
		<b>0</b>	<b>167</b>
<b><u>South Bay</u></b>			
City of Santa Clara	dry ton	3	0
		<b>3</b>	<b>0</b>
<b>Sodium Hydroxide 50% (Caustic)</b>	<b>dry ton</b>	<b>6,058</b>	<b>1,446</b>
<b><u>Central Valley</u></b>			
City of Stockton	dry ton	0	155
		<b>0</b>	<b>155</b>
<b><u>East Bay</u></b>			
Alameda County Water District	dry ton	852	0
City of Hayward	dry ton	0	16
		<b>852</b>	<b>16</b>
<b><u>Marin Sonoma</u></b>			
County of Sonoma	dry ton	2,300	0
Marin Municipal Water District	dry ton	626	0
North Marin Water District	dry ton	76	0
		<b>3,002</b>	<b>0</b>
<b><u>North Bay</u></b>			
City of Antioch	dry ton	580	0
City of Martinez	dry ton	150	0
City of Pittsburg	dry ton	240	0
		<b>970</b>	<b>0</b>



**ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2024/2025**  
**BID NO. 12-2024**

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
<b><u>Sacramento</u></b>			
Carmichael Water District	dry ton	100	0
City of Roseville	dry ton	191	675
El Dorado Irrigation District	dry ton	143	390
LiSWA WWTRF	dry ton	0	210
		<b>434</b>	<b>1,275</b>
<b><u>Tri Valley</u></b>			
Zone 7 Water Agency	dry ton	800	0
		<b>800</b>	<b>0</b>

## **SECTION III – 2**

**BAY AREA CHEMICAL CONSORTIUM  
DELIVERY DETAILS  
FOR BID NO. 12-2024  
SODIUM HYDROXIDE**

**BAY AREA CHEMICAL CONSORTIUM  
DELIVERY DETAILS  
BID NO. 12-2024  
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>
<b><u>CENTRAL VALLEY</u></b>				
<b>City of Stockton</b>				
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%)
<b>City of Turlock</b>				
Well 38	2919 W Christoffersen Parkway	Turlock	weekly - bi weekly	405 gal
<b><u>EAST BAY</u></b>				
<b>Alameda County Water District</b>				
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
<b>City of Hayward</b>				
Water Pollution Control Facility	3700 Enterprise Avenue	Hayward	Once per year	5,000 gallons
<b><u>MARIN SONOMA NAPA</u></b>				
<b>County of Sonoma</b>				
Airport/Larkfield/Wikiup Wastewater Treatment Plant	800 Aviation Blvd	Santa Rosa	Bi-monthly	800-1000 gallons
River Road Corrosion Control Facility	7945 River Road	Forestville	monthly	30,000 gallons
Sonoma Valley Wastewater Treatment Plant	22675 8th Street	Sonoma	bi-months	8,000 gallons
Wohler Corrosion Control Facility	9750 Wohler Rd	Forestville	Montly	30,000 gallons
<b>Marin Municipal Water District</b>				
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
<b>Napa Sanitation District</b>				
Napa Sanitation District	1515 Soscol Ferry Road	Napa	Once per month	5,000 gallons

**BAY AREA CHEMICAL CONSORTIUM  
DELIVERY DETAILS  
BID NO. 12-2024  
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>
<b>North Marin Water District</b>					
North Marin Water District Stafford Lake Treatment Plant	3015 Novato Blvd.	Novato		1x per month	4000 gallons
<b><u>NORTH BAY</u></b>					
<b>City of Antioch</b>					
City of Antioch Water Treatment Plant	401 Putnam Street	Antioch		1x weekly	5,000 gallons
<b>City of Martinez</b>					
City of Martinez Water Treatment Plant	3003 Pacheco Blvd	Martinez		1x per month	4,500 gallons
<b>City of Pittsburg</b>					
Pittsburg Water Treatment Plant	300 Olympia Drive	Pittsburg		Bi-weekly	Full truck load 50,000 lbs
<b>Contra Costa Water District</b>					
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
<b>West County Wastewater District</b>					
Water County Wastewater	2377 Garden Tract Road	Richmond		As needed	IBC totes (275 gallons)
<b><u>PENINSULA</u></b>					
<b>City of San Mateo</b>					
City of San Mateo WQCP	2050 Detroit Drive	San Mateo, CA		every 3-4 weeks	Full load
<b><u>SACRAMENTO</u></b>					
<b>Carmichael Water District</b>					
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. 12-2024  
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>
<b>City of Roseville</b>				
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	1 per week	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	Monthly potential	5,000 gallons
<b>City of Sacramento</b>				
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
<b>El Dorado Irrigation District</b>				
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%)
<b>LiSWA WWTRF</b>				
SMD1 Pump Station	11755 Joeger Road	Auburn, CA	2 per month	3,800 gallons
<b>Nevada Irrigation District</b>				
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	13733 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. 12-2024  
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>
<b>Sacramento County Water Agency</b>				
Vineyard Surface Water Treatment Plant	10151 Florin Road	Sacramento	Approx once a month	Full tanker delivery
<b><u>SOUTH BAY</u></b>				
<b>City of Santa Clara</b>				
DVR Power Plant	850 Duane Ave	Santa Clara, CA 95054	Every 3 months	350-450 gallons
<b>City of Sunnyvale</b>				
City of Sunnyvale Wastewater Treatment Plant	1444 Borregas Avenue	Sunnyvale	3x per year	1,700 gallons
<b><u>TRI VALLEY</u></b>				
<b>Zone 7 Water Agency</b>				
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. 12-2024  
SODIUM HYDROXIDE**

**BAY AREA CHEMICAL CONSORTIUM  
PARTICIPATING MEMBER AGENCY CONTACT LIST  
BID NO. 12-2024  
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
----------------	----------------------------------	-------------------------------	--------------

**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	510-552-1459
--------------	--------------------------	-----------------------	--------------

Cris Pena	Engineering Supervisor	Cris.Pena@acwd.com	510-668-6516
-----------	------------------------	--------------------	--------------

Renee Gonzalez	Buyer	renee.gonzalez@acwd.com	510-668-4294
----------------	-------	-------------------------	--------------

Thomas Spankowski	Environmental Compliance Engineer	thomas.spankowski@acwd.com	510-668-6533
-------------------	-----------------------------------	----------------------------	--------------

**CITY OF HAYWARD**

Water Pollution Control Facility 3700 Enterprise Avenue Hayward, CA 94545

Diane Vargas	WPCF Secretary	diane.vargas@hayward-ca.gov	
--------------	----------------	-----------------------------	--

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
--------------	-----------------------	-----------------------------	--------------

**Marin Sonoma Napa**

**COUNTY OF SONOMA**

2300 County Center Dr., Suite A208 Santa Rosa, CA 95403

Garrett Heinz	Buyer	Garrett.Heinz@sonoma-county.org	707 565-1787
---------------	-------	---------------------------------	--------------

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



**BAY AREA CHEMICAL CONSORTIUM  
PARTICIPATING MEMBER AGENCY CONTACT LIST  
BID NO. 12-2024  
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

Christopher Mosier Operator III	cmosier@napasan.com	707- 312-1899
Cristopher Henriquez Operator II	chenriqu@napasan.com	707-312-1595
Gabe Snook Operations Supervisor	gsnook@napasan.com	707-312-1733
Timothy Healy General Manager/District Engineer	thealy@napasan.com	707-258-6000

**NORTH MARIN WATER DISTRICT**

999 Rush Creek Place Novato, CA 94945

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	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
--	------------------------	--------------

**BAY AREA CHEMICAL CONSORTIUM  
PARTICIPATING MEMBER AGENCY CONTACT LIST  
BID NO. 12-2024  
SODIUM HYDROXIDE**

**CONTRA COSTA WATER DISTRICT**

1331 Concord Ave Concord, CA 94520-4907

Kim Waddy Buyer	kwaddy@ccwater.com	925-688-8012
Nicole Quesada Administrative Analyst	nquesada@ccwater.com	925-625-6602
John Parsons Water Operations Superintendent	jparsons@ccwater.com	925-625-6603
Brian Jackson Purchasing Officer	bjackson@ccwater.com	925-688-8011

**WEST COUNTY WASTEWATER DISTRICT**

2910 Hilltop Drive Richmond, CA 94806

Aaron Winer Director of Water Quality & Resource Recovery	AWiner@wcwd.org
Joseph Majarucon Operations Manager	jmajarucon@wcwd.org

**Peninsula**

**CITY OF SAN MATEO**

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

Xiongbing Liang Laboratory Supervisor	xliang@cityofsanmateo.org	650-522-7380
Michael Sutter	msutter@cityofsanmateo.org	
Rob Learmonth Planet Manager	rlearmonth@cityofsanmateo.org	
Alonso Barahona Management Analyst II	abarahona@cityofsanmateo.org	650-522-7334

**Sacramento**

**CARMICHAEL WATER DISTRICT**

7837 Fair Oaks Blvd. Carmichael, CA 95608

David Biagi	davidb@carmichaelwd.org	916-679-0457
-------------	-------------------------	--------------

**CITY OF ROSEVILLE**

311 Vernon Street Roseville, CA 95678

Becky Philipp Buyer II	bphilipp@roseville.ca.us	916-746-1110
Shannon Wiest	swiest@roseville.ca.us	916-746-1112

**BAY AREA CHEMICAL CONSORTIUM  
PARTICIPATING MEMBER AGENCY CONTACT LIST  
BID NO. 12-2024  
SODIUM HYDROXIDE**

**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	Administrative Analyst	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
--------------	--------------	------------------	--------------

**LISWA WWTRF**

P.O. Box 1050 1245 Fiddymont Road Lincoln, CA 95648

Gary Hengst	Plant Manager/CPO	gary.hengst@stantec.com	916-434-5062
-------------	-------------------	-------------------------	--------------

**NEVADA IRRIGATION DISTRICT**

1036 W. Main Street Grass Valley, CA 95945

Coby McCoy	Water Treatment Supervisor	mccoyc@nidwater.com	530 913-9710
	Delivery Dispatcher		530-271-6885
Joan Tortorici	Purchasing Supervisor	tortorici@nidwater.com	530-273-6185
Shad Chittock	Water Treatment Superintendent	chittocks@nidwater.com	530-271-6899

**SACRAMENTO COUNTY WATER AGENCY**

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

Daniel Ruiz	Accounting Technician	RuizDa@saccounty.gov	916 874-1398
Shawn Barnes	Water Treatment Operations Supervisor	barness@saccounty.gov	916-508-0858
Tom Pasterski	Water System Superintendent	pasterskit@saccounty.gov	916-876-6430
Aaron Robertson		robertsona@saccounty.gov	916-875-0746
Jeff Gross		grossj@saccounty.gov	

**BAY AREA CHEMICAL CONSORTIUM  
PARTICIPATING MEMBER AGENCY CONTACT LIST  
BID NO. 12-2024  
SODIUM HYDROXIDE**

**South Bay**

**CITY OF SANTA CLARA**

Purchasing Division 1500 Warburton Avenue Santa Clara, CA 95050

Nick van Haeften	Division Manager	nvanhaeften@santaclaraca.gov	408-615-2717
Alex Price	Senior Engineer	aprice@santaclaraca.gov	408-615-6051
Minette Castro		MCastro@SantaClaraCA.gov	
Eugenia Pinheiro		EPinheiro@Santaclaraca.gov	
DeAnna Hilbrants		DHilbrants@SantaClaraCA.gov	
Grace Dougherty		GDougherty@SantaClaraCA.gov	
Michael Lee	O&M Manager	mile@santaclaraca.gov	408-615-6577

**CITY OF SUNNYVALE**

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

Bryan Berdeen	Operations Manager	bberdeen@sunnyvale.ca.gov	408-730-7261
Lisa Vo		lvo@sunnyvale.ca.gov	

**Tri Valley**

**ZONE 7 WATER AGENCY**

100 North Canyons Parkway Livermore, CA 94551

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

## **SECTION IV**

**BAY AREA CHEMICAL CONSORTIUM  
BID CONTRACT DOCUMENTS  
FOR BID NO. 12-2024  
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. 12-2024  
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: 2/16/2024

**WE ACKNOWLEDGE RECEIVING ADDENDUM/ADDENDA NUMBER \_\_\_\_\_ 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 \$475.00 per delivery.

If split loads, the first order will be charged the LTL fee.

Please see the attached 2 pages that list the Sodium Hydroxide deviations

Date: February 16, 2024

Re: BACC Bid No. 12-2024: Deviation from BACC NaOH Specifications

In accordance with BACC Bid No. 12-2024, 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 <sub>2</sub> O	Wt. %	13.6	17.4
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt. %	0	0.15
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	33
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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 <sub>2</sub> O	Wt. %	17.4	21.3
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt. %	0	0.15
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	42
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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 <sub>2</sub> O	Wt. %	22.3	25.2
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt. %	0	0.15
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	31
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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

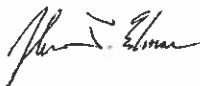
\* Sodium hydroxide for wastewater treatment applications may contain up to 9 mg/L iron (Fe) and 3 mg/L nickel (Ni)

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

Characteristics	Units	Minimum	Maximum
Sodium Hydroxide, NaOH	Wt. %	48	52
Sodium Oxide, Na <sub>2</sub> O	Wt. %	36.8	40.7
Sodium Chloride, NaCl	PPM	0	100
Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub>	Wt. %	0	0.30
Sodium Chlorate, NaClO <sub>3</sub>	PPM	0	50
Sodium Sulfate, Na <sub>2</sub> SO <sub>4</sub>	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





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](mailto: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](mailto: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](mailto: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 6 years.

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

5. City of Los Angeles  
Los Angeles, CA

Contact: Katherin Quinn-

Email: [Katherine.Quinn@lacity.org](mailto: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](mailto: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.

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. 12-2024  
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 22, 2024

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](mailto:munteam-west@univarsolutions.com)

Authorized Representative (Please Print):

Jennifer M. Perras

Signature: 

Date: 2/16/2024

**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.





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 black ink, appearing to read "P. Hockaday".

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

Effective Date: 5<sup>th</sup> 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 Process<sup>SM</sup>.
- B. Information and updated for employees on the Responsible Distribution Process<sup>SM</sup> 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 Process<sup>SM</sup>.

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

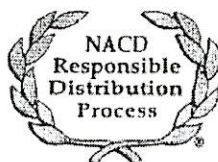
- A. Member companies shall establish and maintain a documented system to control all policies and procedures supporting RDP. In addition, member companies shall maintain a documented system to control the documents and data relating to RDP itself as issued by the National Association of Chemical Distributors (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 Process<sup>SM</sup> by sharing experiences and offering assistance to others who produce, handle, use, transport, or dispose of chemicals.



## RDP – What Is It?

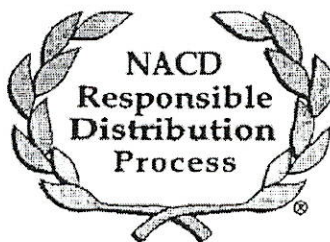
Univar is a member of the National Association of Chemical Distributors. This trade association developed the Responsible Distribution Process<sup>SM</sup> (RDP), which focuses on the responsible management and distribution of chemicals.

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 that reads "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 black ink, appearing to read 'Ed Higbee', with a long horizontal flourish 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 13, 2024** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

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

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

[CompanyName=univar&ChemicalName=Sodium+Hydroxide&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=univar&ChemicalName=Sodium+Hydroxide&)

---

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

---

### Univar Solutions Canada Ltd. DBA Univar Canada Ltd.

64 Arrow Road

North York, ON M9M 2L9

Canada

416-740-5300

**Facility :** Distribution Center - Dartmouth, Nova Scotia, Canada

#### Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
CAUSTIC SODA 50% SOLUTION	Corrosion & Scale Control pH Adjustment	100mg/L
CAUSTIC SODA 50% SOLUTION COMMERCIAL GRADE	Corrosion & Scale Control pH Adjustment	100mg/L
CAUSTIC SODA 50% SOLUTION MEMBRANE GRADE	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 25% Solution	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30% Solution	Corrosion & Scale Control pH Adjustment	166mg/L

Sodium Hydroxide 30% Solution	Corrosion & Scale Control pH Adjustment	166mg/L
-------------------------------	--	---------

**Facility :** Edmonton, Alberta, Canada**Sodium Hydroxide**

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

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

**Facility :** North Vancouver, British Columbia, Canada**Sodium Hydroxide**

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



NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

**Facility :** Richmond, British Columbia, Canada

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25% Solution	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 50% Solution	Corrosion & Scale Control pH Adjustment	100mg/L
Vanblend Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Vanblend LP 1422 (Caustic Soda 25% Solution)	Corrosion & Scale Control pH Adjustment	200mg/L

**Facility :** Sturgeon County, Alberta, Canada

**Sodium Hydroxide**

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

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

**Facility :** Valleyfield, Québec, Canada

**Sodium Hydroxide**

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
CAUSTIC SODA 50%, MEMBRANE	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 10% Solution	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 25% Solution	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30% Solution	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda 50% - Diaphragm	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Solution	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30% Solution	Corrosion & Scale Control pH Adjustment	333mg/L
Sodium Hydroxide 50% Solution	Corrosion & Scale Control pH Adjustment	200mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

**Facility :** Weston, Ontario, Canada

#### **Sodium Hydroxide**

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
CAUSTIC SODA 50% COMMERCIAL GRADE	Corrosion & Scale Control pH Adjustment	100mg/L
CAUSTIC SODA 50% MEMBRANE GRADE	Corrosion & Scale Control pH Adjustment	100mg/L
CAUSTIC SODA 50% SOLUTION	Corrosion & Scale Control pH Adjustment	100mg/L
SODIUM HYDROXIDE 50% SOLLUTION	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are NSF Certified.

**Facility :** Winnipeg, Manitoba, Canada

**Sodium Hydroxide**

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

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

**Facility :** Winnipeg, Manitoba, Canada

**Sodium Hydroxide**

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

---

**Univar Solutions USA Inc.**  
3075 Highland Parkway

Suite 200  
 Downers Grove, IL 60515  
 United States  
 425-889-3679

**Facility :** Rayong Province, Thailand

**Sodium Hydroxide**

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

---

**Univar Solutions USA Inc. DBA  
 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**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	pH Adjustment	500mg/L
Caustic Soda 13%	pH Adjustment	384mg/L
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 10%	pH Adjustment	500mg/L
Sodium Hydroxide 13%	pH Adjustment	384mg/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

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

**Facility : # 1 St. Louis, MO**

**Sodium Hydroxide**

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

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

**Facility : # 1 Chattanooga, TN**

**Sodium Hydroxide**

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

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

**Facility : # 2 St. Louis, MO**

**Sodium Hydroxide**

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

**Facility : # 2 Distribution Center - Toledo, OH****Sodium Hydroxide**

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

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

**Facility : Chickasaw, AL****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L

Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/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 50%	Corrosion & Scale Control pH Adjustment	100mg/L

**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

**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

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

#### **Sodium Hydroxide**

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
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

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

### **Facility :** Distribution Center - Santa Fe Springs, CA

#### **Sodium Hydroxide**

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
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

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

**Sodium Hydroxide**

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

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

### Facility : Redwood City, CA

#### Sodium Hydroxide

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

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

### Facility : San Pedro, 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	165mg/L

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

### Facility : Visalia, CA

#### Sodium Hydroxide

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
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

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

### **Facility :** Denver, CO

#### **Sodium Hydroxide**

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
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

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

### **Facility :** Distribution Center - Jacksonville Contanda Terminal, FL

#### **Sodium Hydroxide**

<b>Trade Designation</b>	<b>Product Function</b>	<b>Max Use</b>
Caustic Soda 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L

Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control pH Adjustment	333mg/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

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

### **Facility :** Distribution Center - Tampa, FL

#### **Sodium Hydroxide**

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

### **Facility :** Tampa, FL

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/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 - Brunswick, GA

**Sodium Hydroxide**

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

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

**Facility :** Distribution Center - Dallas, GA

**Sodium Hydroxide**

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

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

**Facility :** Distribution Center - Savannah, GA

**Sodium Hydroxide**

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

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

**Facility :** Norcross, GA

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L

Caustic Soda 50%	Corrosion 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 30-49%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L
Weak Caustic	Corrosion Control pH Adjustment	100mg/L

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

### **Facility :** Distribution Center - Nampa, ID

#### **Sodium Hydroxide**

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

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

### **Facility :** Bedford Park, IL

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 30%	pH Adjustment	165mg/L

Caustic Soda 50%	pH Adjustment	100mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L

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

### **Facility :** Distribution Center - Argo, IL

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 17%	pH Adjustment	294mg/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 17%	pH Adjustment	294mg/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

### **Facility :** Distribution Center - Sauget, IL

#### **Sodium Hydroxide**

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

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

**Facility :** Kansas City, KS

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/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

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

**Facility :** Distribution Center, Geismar, LA

**Sodium Hydroxide**

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

Sodium Hydroxide 50%	pH Adjustment Corrosion & Scale Control	100mg/L
----------------------	--	---------

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

**Facility :** Geismar Highway 75, LA

**Sodium Hydroxide**

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

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

**Facility :** Baltimore, MD

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Sodium Hydroxide 20%	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 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

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

### **Facility :** St. Paul Westway Terminal, MN

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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 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 :** St. Paul Terrace Court, MN

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
NaOH 25%	Corrosion & Scale Control pH Adjustment	200mg/L
NaOH 30%	Corrosion & Scale Control pH Adjustment	165mg/L

NaOH 50%	Corrosion & Scale Control pH Adjustment	100mg/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

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

### **Facility :** Distribution Center - Omaha, NE

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 30%	pH Adjustment Corrosion & Scale Control	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 30%	pH Adjustment Corrosion & Scale Control	165mg/L
Sodium Hydroxide 50%	pH Adjustment Corrosion & Scale Control	100mg/L

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

### **Facility :** Distribution Center - Carteret, NJ

#### **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

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

**Facility :** Distribution Terminal - Albuquerque, NM

**Sodium Hydroxide**

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

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

**Facility :** Geneva, NY

**Sodium Hydroxide**

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

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

**Facility :** Charlotte, NC

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L

Caustic Soda 50%	Corrosion Control pH Adjustment	100 mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100 mg/L

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

### **Facility :** Wilmington, NC

#### **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

### **Facility :** Distribution Center - Grand Forks, ND

#### **Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control	100mg/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 - Cincinnati, OH

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 12.5%	Corrosion & Scale Control pH Adjustment	400mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

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

**Facility :** Distribution Center - Walbridge, OH**Sodium Hydroxide**

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

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

**Facility :** Portland, OR

**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 33%	Corrosion & Scale Control	152mg/L
Caustic Soda 35%	Corrosion & Scale Control	143mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L

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

**Facility : Altoona, PA****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

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

**Facility : Bunola, PA****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L



Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 40%	Corrosion & Scale Control pH Adjustment	125mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

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

**Facility :** Distribution Center - Morrisville Steel Road, PA

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 19%	pH Adjustment	263mg/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

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

**Facility :** Distribution Center - Philadelphia, PA

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 18%	pH Adjustment	277mg/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 18%	pH Adjustment	277mg/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

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

## Facility : Middletown, PA

### Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 7%	Corrosion & Scale Control	700mg/L
Sodium Hydroxide 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 7%	Corrosion & Scale Control pH Adjustment	700mg/L

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

**Facility : Morrisville, PA****Sodium Hydroxide**

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

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

**Facility : Providence, RI****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10% Solution	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 25% Solution	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 35% Solution	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50% Solution	Corrosion & Scale Control pH Adjustment	100mg/L

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

**Facility : Spartanburg, SC****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion Control pH Adjustment	250 mg/L
Caustic Soda 25%	Corrosion Control pH Adjustment	200 mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L

Caustic Soda 50%	Corrosion Control pH Adjustment	100 mg/L
Sodium Hydroxide 20%	Corrosion Control pH Adjustment	250 mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200 mg/L
Sodium Hydroxide 30-49%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100 mg/L
Weak Caustic	Corrosion Control pH Adjustment	100mg/L

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

### **Facility : Chattanooga, TN**

#### **Sodium Hydroxide**

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

### **Facility : Memphis, TN**

#### **Sodium Hydroxide**

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

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

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

### **Facility :** Borger, TX

#### **Sodium Hydroxide**

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

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

### **Facility :** Distribution Center - Houston, TX

#### **Sodium Hydroxide**

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

Caustic Soda 20%	pH Adjustment	250mg/L
	Corrosion & Scale Control	
Caustic Soda 27%	pH Adjustment	185mg/L
	Corrosion & Scale Control	
Sodium Hydroxide	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide - 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Sodium Hydroxide - 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 20%	pH Adjustment	250mg/L
	Corrosion & Scale Control	
Sodium Hydroxide 27%	pH Adjustment	185mg/L
	Corrosion & Scale Control	
Sodium Hydroxide Solution	pH Adjustment	100mg/L
	Corrosion & Scale Control	

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

### **Facility :** Distribution Center - Odessa, TX

#### **Sodium Hydroxide**

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

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

### **Facility :** Salt Lake City, UT

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

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

**Facility : Chester, VA****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

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

**Facility : Newport News, VA****Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L

Caustic Soda 32%	Corrosion & Scale Control pH Adjustment	156mg/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 32%	Corrosion & Scale Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/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 Corrosion & Scale Control	200mg/L



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

#### 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 33%	Corrosion & Scale Control	152mg/L
Caustic Soda 35%	Corrosion & Scale Control	143mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L

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

### Facility : Cincinnati Dues Drive, OH

#### Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control	500mg/L
	pH Adjustment	
Caustic Soda 12.5%	Corrosion & Scale Control	400mg/L
	pH Adjustment	
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
	pH Adjustment	
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Caustic Soda 30%	Corrosion & Scale Control	165mg/L
	pH Adjustment	

Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

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

**Facility :** Dallas Bekay Street, TX

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 20%	Corrosion Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

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

**Facility :** Houston, TX

**Sodium Hydroxide**

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

Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200 mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100 mg/L

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

**Facility :** Phoenix 45th Avenue, AZ

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

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

**Univar Solutions USA Inc. DBA  
Univar USA Inc.**

17425 Northeast Union Hill Road  
Redmond, WA 98052  
United States  
425-889-3400

**Facility :** # 18 USA

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 32%	Corrosion & Scale Control pH Adjustment	156mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 32%	Corrosion & Scale Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

**Univar USA Inc.**

17411 Northeast Union Hill Road  
 Redmond, WA 98052  
 United States  
 425-889-3400

**Facility :** # 26 Pittsburg, CA

**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda Solution 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda Solution 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda Solution 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda Solution 30%	Corrosion & Scale Control pH Adjustment	166mg/L
Caustic Soda Solution 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control pH Adjustment	333mg/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	166mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

---

Number of matching Manufacturers is 5

Number of matching Products is 522

Processing time was 1 seconds

## 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: \_\_\_\_\_

Date of Delivery: \_\_\_\_\_

Order Number: \_\_\_\_\_

Shipper ID: \_\_\_\_\_

<u>Property</u>	<u>Unit</u>	<u>Result<sup>1</sup></u>
Sodium Hydroxide (NaOH)	Wt. %	20.00
Sodium Oxide (Na <sub>2</sub> O)	Wt. %	15.50
Sodium Chloride (NaCl)	PPM	20
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	Wt. %	0.03
Sodium Chlorate (NaClO <sub>3</sub> )	PPM	11
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )	PPM	18
Iron (Fe)	PPM	0.1
Nickel (Ni)	PPM	0.1
Color / Appearance		Clear & Bright
Specific Gravity @ 60/60		1.223

<sup>1</sup> Impurity levels are calculated based on the levels in the 50% source material

**Effective Date:** 12/1/2023

**Replaces:** 10/10/2023

**Testing Company:** Intertek

**Survey Number:** US410-0021721

**Shipment Information:** Argent Gerber V.2307

**Lot Number:**

4526544181/ BatchNo.B526544181

**Manufacturer:** FPC Taiwan

**(Last Receipt)**

**\*\*Date of Manufacture:** 10/21/2023



Certified to  
NSF/ANSI/CAN 60

**Prepared by:** \_\_\_\_\_

**Approved by:** \_\_\_\_\_

**ANSI/NSF Standard 60**

**Drinking Water Treatment Additives 72SN**

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

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

**This product is Kosher certified**

**\*\*Date of Manufacture 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 Inc. ("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](http://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 20%

Version 1.6

Revision Date: 01/19/2024

### 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

# Safety Data Sheet

## CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

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.

## Safety Data Sheet

### CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

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



# Safety Data Sheet

## CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

kept upright to prevent leakage.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

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

**Safety Data Sheet**  
**CAUSTIC SODA 20%**

Version 1.6

Revision Date: 01/19/2024

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	:	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 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:**

**Safety Data Sheet**  
**CAUSTIC SODA 20%**

Version 1.6

Revision Date: 01/19/2024

Species: Rabbit  
Result: Risk of serious damage to eyes.

**Carcinogenicity**

<b>IARC</b>	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.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
<b>NTP</b>	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).

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

# Safety Data Sheet

## CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

- 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.

**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).

## Safety Data Sheet

### CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

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

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

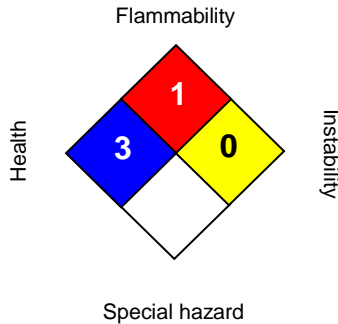
## CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

### SECTION 16. OTHER INFORMATION

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>3/</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>4</b>

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** : 01/19/2024

**Material number:**

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
EGEST	EOSCA Generic Exposure Scenar-	OSHA	Occupational Safety & Health

## Safety Data Sheet

### CAUSTIC SODA 20%

Version 1.6

Revision Date: 01/19/2024

	io Tool		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

### Caustic Soda 25% - Membrane Grade

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

**IMTT TANK 20013**

**Richmond, CA**

Customer: \_\_\_\_\_

Order Number: \_\_\_\_\_

<u>Property</u>	<u>Unit</u>	<u>Result<sup>1</sup></u>
Sodium Hydroxide (NaOH)	Wt. %	25.00
Sodium Oxide (Na <sub>2</sub> O)	Wt. %	19.37
Sodium Chloride (NaCl)	PPM	24
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	Wt. %	0.03
Sodium Chlorate (NaClO <sub>3</sub> )	PPM	13
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )	PPM	23
Iron (Fe)	PPM	0.1
Nickel (Ni)	PPM	0.1
Color / Appearance		Clear & Bright
Specific Gravity @ 60/60		1.279

<sup>1</sup> Impurity levels are calculated based on the levels in the 50% source material

**Effective Date:** 12/1/2023

**Replaces:** 10/10/2023

**Testing Company:** Intertek

**Survey Number:** US410-0021721

**Shipment Information:** Argent Gerber V.2307

**Lot Number:**

4526544181/BatchNo.B526544181

**Manufacturer:** FPC Taiwan

**(Last Receipt)**



Certified to  
NSF/ANSI/CAN 60

Prepared by: \_\_\_\_\_

Approved by: \_\_\_\_\_

#### ANSI/NSF Standard 60

#### Drinking Water Treatment Additives 72SN

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

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

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

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

Maximum Use Level: 333 mg/L (15% Sodium Hydroxide)

This product is Kosher certified

**\*\*This product meets the test requirements of the Food Chemicals Codex (FCC), latest edition monograph\*\***

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 Inc. ("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](http://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 1.10

Revision Date: 01/10/2024

#### 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  
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

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

CENTER/ doctor.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
 P363 Wash contaminated clothing before reuse.  
 P390 Absorb spillage to prevent material damage.  
**Storage:**  
 P405 Store locked up.  
 P406 Store in corrosive resistant container with a resistant inner liner.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

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

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.

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

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

**SECTION 5. FIREFIGHTING MEASURES**

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

**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 ap-

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

- plication 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
- 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.

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

**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.
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

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

**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.

**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

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

### 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

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)

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

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

**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

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 : Listed on TSCA

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

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory



**Safety Data Sheet**  
**CAUSTIC SODA 25%**

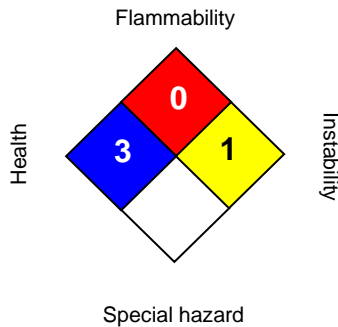
Version 1.10

Revision Date: 01/10/2024

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:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>4</b>

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** : 01/10/2024

**Material number:**

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, 16158393, 16152426, 16144481, 16147885, 16159715, 16143521, 16160487, 16160771, 16160572, 16160486, 16147888, 16147884, 16147854, 16147799, 16148872, 16144724, 16144461, 16148802, 16152705, 16136108, 16135793, 16135298, 16143511, 16143409, 16143472, 16143461, 16143389, 16142429, 16140693

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Govern-	LD50	Lethal Dose 50%

## Safety Data Sheet

### CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

	ment Industrial Hygienists		
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%		

**Univar Solutions**  
 525 Seaport Blvd.  
 Redwood City, CA 94063  
 PH. 650-363-1661  
 FAX 650-261-2020  
 www.univarsolutions.com

DATE: 02/06/2024

PRODUCT: Caustic Soda 30%

PRODUCT GRADE: NSF MEMBRANE

UNIVAR SOLUTIONS PRODUCT CODE: 16147859

UNIVAR SOLUTIONS LOT NUMBER: 0840P00066

<u>TEST</u>	<u>RESULTS</u>	<u>SPECIFICATIONS</u>
Assay, NaOH	30.00%	29.0%-31.0%
Assay, Na <sub>2</sub> O	23.48%	22.45%-24.05%
Assay, Na <sub>2</sub> CO <sub>3</sub>	0.53%	1.0% max
Specific Gravity @15.6°C	1.343	1.321-1.343
pH	12.869	12.0-14.0
Visual	Pass	Clear/Clean Free of suspended particles

Univar Solutions

*Omar Nayfeh*

Omar Nayfeh

Lab Technician



**Note:**

Please consult the SDS for further information.

Univar Solutions represents only that the Product shall meet the specifications herein. All transactions involving this Product are subject to Univar Solutions' standard Terms and Conditions, available at [www.univarsolutions.com](http://www.univarsolutions.com) or upon request. Univar Solutions makes no additional representations or warranties, express or implied, as to the Product.

## CERTIFICATE OF CONFORMANCE

### Caustic Soda 30% - Membrane Grade

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

**IMTT TANK 20013**

**Richmond, CA**

Customer: \_\_\_\_\_

Date of Delivery: \_\_\_\_\_

Order Number: \_\_\_\_\_

Shipper ID: \_\_\_\_\_

<u>Property</u>	<u>Unit</u>	<u>Result<sup>1</sup></u>
Sodium Hydroxide (NaOH)	Wt. %	30.00
Sodium Oxide (Na <sub>2</sub> O)	Wt. %	23.24
Sodium Chloride (NaCl)	PPM	29
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	Wt. %	0.04
Sodium Chlorate (NaClO <sub>3</sub> )	PPM	16
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )	PPM	27
Iron (Fe)	PPM	0.1
Nickel (Ni)	PPM	0.1
Color / Appearance		Clear & Bright
Specific Gravity @ 60/60		1.333

<sup>1</sup> Impurity levels are calculated based on the levels in the 50% source material

**Effective Date:** 12/1/2023

**Replaces:** 10/10/2023

**Testing Company:** Intertek

**Survey Number:** US410-0021721

**Shipment Information:** Argent Gerber V.2307

**Lot Number:**

4526544181/BatchNo.B526544181

**Manufacturer:** FPC Taiwan

**(Last Receipt)**

**\*\*Date of Manufacture:** 10/21/2023



**Prepared by:** \_\_\_\_\_

**Approved by:** \_\_\_\_\_

**ANSI/NSF Standard 60**

**Drinking Water Treatment Additives 72SN**

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

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

**This product is Kosher certified**

\*\*Date of Manufacture 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 Inc. ("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](http://www.univarsolutions.com) or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

**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%

Version 1.12

Revision Date: 01/16/2024

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.

## Safety Data Sheet

### CAUSTIC SODA 30%

Version 1.12

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

## CAUSTIC SODA 30%

Version 1.12

Revision Date: 01/16/2024

- 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 °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 <sup>3</sup>	ACGIH
		C	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z-1
		C	2 mg/m <sup>3</sup>	OSHA P0
		C	2 mg/m <sup>3</sup>	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



## Safety Data Sheet

### CAUSTIC SODA 30%

Version 1.12

Revision Date: 01/16/2024

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.

**Safety Data Sheet**  
**CAUSTIC SODA 30%**

Version 1.12

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).

# Safety Data Sheet

## CAUSTIC SODA 30%

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.

# Safety Data Sheet

## CAUSTIC SODA 30%

Version 1.12

Revision Date: 01/16/2024

### 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

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

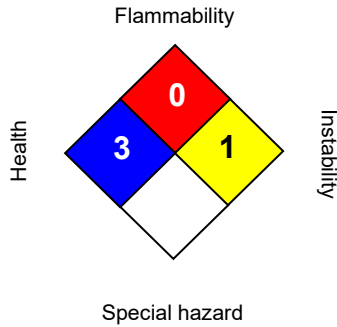
## CAUSTIC SODA 30%

Version 1.12

Revision Date: 01/16/2024

### SECTION 16. OTHER INFORMATION

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>4</b>

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

## Safety Data Sheet

### CAUSTIC SODA 30%

Version 1.12

Revision Date: 01/16/2024

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 CONFORMANCE

### Caustic Soda 25% - Membrane Grade

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

**IMTT TANK 20013**

**Richmond, CA**

Customer: \_\_\_\_\_

Order Number: \_\_\_\_\_

<u>Property</u>	<u>Unit</u>	<u>Result<sup>1</sup></u>
Sodium Hydroxide (NaOH)	Wt. %	25.00
Sodium Oxide (Na <sub>2</sub> O)	Wt. %	19.37
Sodium Chloride (NaCl)	PPM	24
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	Wt. %	0.03
Sodium Chlorate (NaClO <sub>3</sub> )	PPM	13
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )	PPM	23
Iron (Fe)	PPM	0.1
Nickel (Ni)	PPM	0.1
Color / Appearance		Clear & Bright
Specific Gravity @ 60/60		1.279

<sup>1</sup> Impurity levels are calculated based on the levels in the 50% source material

**Effective Date:** 12/1/2023

**Replaces:** 10/10/2023

**Testing Company:** Intertek

**Survey Number:** US410-0021721

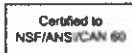
**Shipment Information:** Argent Gerber V.2307

**Lot Number:**

4526544181/BatchNo.B526544181

**Manufacturer:** FPC Taiwan

**(Last Receipt)**



**Prepared by:** \_\_\_\_\_

**Approved by:** \_\_\_\_\_

#### ANSI/NSF Standard 60

#### Drinking Water Treatment Additives 72SN

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

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

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

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

Maximum Use Level: 333 mg/L (15% Sodium Hydroxide)

This product is Kosher certified

**\*\*This product meets the test requirements of the Food Chemicals Codex (FCC), latest edition monograph\*\***

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 Inc. ("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](http://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 1.10

Revision Date: 01/10/2024

**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  
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



**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

CENTER/ doctor.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
 P363 Wash contaminated clothing before reuse.  
 P390 Absorb spillage to prevent material damage.  
**Storage:**  
 P405 Store locked up.  
 P406 Store in corrosive resistant container with a resistant inner liner.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

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

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.

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

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

**SECTION 5. FIREFIGHTING MEASURES**

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

**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 ap-

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

- plication 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/m <sup>3</sup>	ACGIH
		C	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z-1
		C	2 mg/m <sup>3</sup>	OSHA P0
		C	2 mg/m <sup>3</sup>	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.

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

**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.
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

**Safety Data Sheet**  
**CAUSTIC SODA 25%**

Version 1.10

Revision Date: 01/10/2024

**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.

**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

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

### 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

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)

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

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

**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

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 : Listed on TSCA

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

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

# Safety Data Sheet

## CAUSTIC SODA 25%

Version 1.10

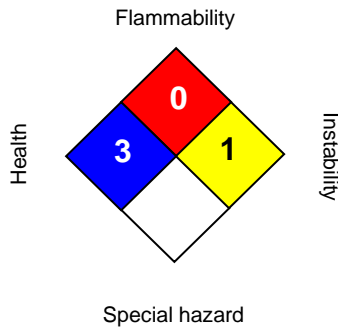
Revision Date: 01/10/2024

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:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>4</b>

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** : 01/10/2024

**Material number:**

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, 16158393, 16152426, 16144481, 16147885, 16159715, 16143521, 16160487, 16160771, 16160572, 16160486, 16147888, 16147884, 16147854, 16147799, 16148872, 16144724, 16144461, 16148802, 16152705, 16136108, 16135793, 16135298, 16143511, 16143409, 16143472, 16143461, 16143389, 16142429, 16140693

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Govern-	LD50	Lethal Dose 50%



## Safety Data Sheet

### CAUSTIC SODA 25%

Version 1.10

Revision Date: 01/10/2024

	ment Industrial Hygienists		
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)  
05/31/2023

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).

<b>PRODUCER</b> Aon Risk Services Central, Inc. Philadelphia PA Office 100 North 18th Street 15th Floor Philadelphia PA 19103 USA	<b>CONTACT NAME:</b> PHONE (A/C. No. Ext): (866) 283-7122      FAX (A/C. No.): 800-363-0105		
	<b>E-MAIL ADDRESS:</b>		
<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>	
<b>INSURED</b> Univar Solutions USA Inc. 3075 Highland Parkway Suite 200 Downers Grove IL 60515 USA	INSURER A: Illinois Union Insurance Company		27960
	INSURER B: ACE American Insurance Company		22667
	INSURER C: ACE Fire Underwriters Insurance Co.		20702
	INSURER D: Indemnity Insurance Co of North America		43575
	INSURER E:		
	INSURER F:		

Holder Identifier :


**COVERAGES**      **CERTIFICATE NUMBER: 570099686202**      **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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <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:			XSLG47313600 SIR applies per policy terms & conditions	06/01/2023	06/01/2024	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
B	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			ISA H10708436 Commercial Auto	06/01/2023	06/01/2024	COMBINED SINGLE LIMIT (Ea accident)	\$5,000,000
							BODILY INJURY ( Per person)	
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
A	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$5,000,000			XCEG27380566010	06/01/2023	06/01/2024	EACH OCCURRENCE	\$4,000,000
							AGGREGATE	\$4,000,000
D	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WLRC70313443 AOS SCFC70313327 WI	06/01/2023	06/01/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
C			N/A		06/01/2023	06/01/2024	E.L. EACH ACCIDENT	\$1,000,000
							E.L. DISEASE-EA EMPLOYEE	\$1,000,000
							E.L. DISEASE-POLICY LIMIT	\$1,000,000
A	Environmental Site Liability			PPLG71507944002 Pollution-ClaimsMade Form SIR applies per policy terms & conditions	06/01/2022	06/01/2025	Aggregate	\$16,000,000
							Ea Condition	\$1,000,000
							SIR	\$1,000,000

Certificate No : 570099686202

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

<b>CERTIFICATE HOLDER</b>  Univar Solutions USA Inc. 3075 Highland Parkway Suite 200 Downers Grove IL 60515 USA	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  <b>AUTHORIZED REPRESENTATIVE</b>  
--	---



# ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Services Central, Inc.		NAMED INSURED Univar Solutions USA Inc.	
POLICY NUMBER See Certificate Number: 570099686202			
CARRIER See Certificate Number: 570099686202	NAIC CODE	EFFECTIVE DATE:	

**ADDITIONAL REMARKS**

**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	

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	AUTOMOBILE LIABILITY							
B				MMT H10708540 Truckers Liability	06/01/2023	06/01/2024	Combined Single Limi	\$5,000,000
	WORKERS COMPENSATION							
B		N/A		WCUC70313364 Excess WC--CA OH OR,WA SIR applies per policy terms & conditions	06/01/2023	06/01/2024		
	OTHER							
	Claims Made Form							