

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

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



December 17, 2024

Plaquemines Parish Government  
Purchasing Department  
333 F Edward Hebert, bldg. 102 room 333  
Belle Chasse, LA 70037

RE: Invitation to Bid – Furnishing Chemicals – Bid #25-81

To Purchasing:

Univar Solutions USA LLC is pleased to offer a price quote on your ITB due Friday, December 27, 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.

If any bid tabulations/ results are sent out – please use this information for us, and whichever method you prefer. We have also included a self-addressed stamped envelope if you prefer to mail a copy.

Thank you,

*Stacy Ziegler*

Municipal Specialists  
Univar Solutions USA LLC  
[muniteam-west@univarsolutions.com](mailto:muniteam-west@univarsolutions.com)  
[www.univarsolutions.com](http://www.univarsolutions.com)

**Please Note:** Seller shall indemnify Buyer for losses to the extent caused by Seller's negligence or breach of contract. Neither party is liable for incidental or consequential damages. Seller's liability is limited to the purchase price of the goods. SELLER MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**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.

Univar Solutions USA Inc.  
34200 Distribution Lane  
Geismar, LA 70734

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



## GENERAL INFORMATION

### **Regular Office Hours during which orders may be placed:**

Monday – Friday     7:30 am – 4:30 pm (CST)

### **In case of an emergency during non-business hours:**

For Chemical Related Emergencies:

ChemTrec:        (800) 424-9300

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

Office Phone:        1-800-392-1757 Customer Service

Customer Service        [custsolgulf@univarsolutions.com](mailto:custsolgulf@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)872-5000  
(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



## 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 WITENESS WHEREOF, I have executed this Certificate of Secretary of the Company this 4<sup>th</sup> day of January 2024.

DocuSigned by:

*Jumoke Onibokun*

F781477FB84F470...

Jumoke Onibokun, Assistant Secretary

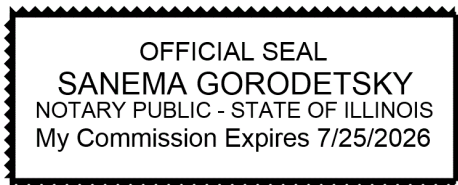
State of Illinois )

)

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:

*Sanema Gorodetsky*

EB3185C32E35401

Sanema Gorodetsky

Notary Public

My commission expires July 25, 2026

## 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 Solutions USA LLC 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 process 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.*



# CERTIFICATE OF LIABILITY INSURANCE

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

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

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

<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> <b>PHONE</b> (A/C. No. Ext): (866) 283-7122 <b>FAX</b> (A/C. No.): 800-363-0105 <b>E-MAIL ADDRESS:</b>														
<b>INSURED</b> Univar Solutions USA LLC 3075 Highland Parkway Suite 200 Downer's Grove IL 60515 USA	<table><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A: ACE American Insurance Company</td><td>22667</td></tr><tr><td>INSURER B: ACE Fire Underwriters Insurance Co.</td><td>20702</td></tr><tr><td>INSURER C: Indemnity Insurance Co of North America</td><td>43575</td></tr><tr><td>INSURER D: Illinois Union Insurance Company</td><td>27960</td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: ACE American Insurance Company	22667	INSURER B: ACE Fire Underwriters Insurance Co.	20702	INSURER C: Indemnity Insurance Co of North America	43575	INSURER D: Illinois Union Insurance Company	27960	INSURER E:		INSURER F:	
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INSURER E:															
INSURER F:															

**COVERAGES****CERTIFICATE NUMBER:** 570106229217**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
A	<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:			XSLG47311172 SIR applies per policy terms & conditions	06/07/2024	06/01/2025	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
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			ISA H10704741 Commercial Auto	06/07/2024	06/01/2025	COMBINED SINGLE LIMIT (Ea accident) \$5,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
D	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$5,000,000			XCEG27380566011	06/07/2024	06/01/2025	EACH OCCURRENCE \$4,000,000 AGGREGATE \$4,000,000
C	<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			WLRC70303772 AOS SCFC70303735 WI	06/07/2024	06/01/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000
B					06/07/2024	06/01/2025	

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

RE: Year: 2012, Make: Kenworth, Model: T660, Vehicle ID Number: 1XKAD49X4CJ330954, License State: California, City where Garaged: Fresno.

**CERTIFICATE HOLDER****CANCELLATION**

Univar USA Attn: Harry Thompson 4465 E. Florence Ave. Fresno CA 93725-1150 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  <i>Aon Risk Services Central, Inc.</i>
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Holder Identifier :

Certificate No : 570106229217



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

<b>ADDITIONAL POLICIES</b>	If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.
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**CENTRALBIDDING**  
FROM CENTRAL AUCTION HOUSE

**25-81 Chemicals**  
Plaquemines Parish Government

Project documents obtained from [www.CentralBidding.com](http://www.CentralBidding.com)

10-Dec-2024 01:20:48 PM

**PLAQUEMINES PARISH GOVERNMENT  
PURCHASING DEPARTMENT  
333 F EDWARD HEBERT, BLDG 102 ROOM 333  
BELLE CHASSE, LA 70037**

**SPECIFICATIONS  
FOR  
FURNISHING CHEMICALS  
FOR USE BY THE WATER & SEWER DEPARTMENTS  
BID #25-81**

**BID OPENING-FRIDAY, DECEMBER 27, 2024  
10:00 A.M., PURCHASING AGENT'S OFFICE,  
333 F EDWARD HEBERT, BLDG 102 ROOM 333  
BELLE CHASSE, LA 70037**

**THIS PACKAGE (PAGES 1 - 15) INCLUDES THE FOLLOWING PAGES:  
TITLE PAGE (PAGE 1)  
ADVERTISEMENT (PAGE 2)  
CORPORATE RESOLUTION (PAGE 3)  
AFFIDAVITS (PAGES 4-5)  
INSTRUCTIONS AND GENERAL CONDITIONS (PAGES 6-8)  
SPECIFICATIONS AND PROPOSAL BLANK (PAGE 9-15)**



# Plaquemines Parish Government

Parish President  
**W. Keith Hinkley**

## **PURCHASING DEPARTMENT**

333 F Edward Hebert Blvd.  
Building 102, Suite 333  
Belle Chasse, Louisiana 70037  
(504) 934-6430  
Fax (504) 934-6439  
purchasing@ppgov.net

## **Council Members**

District 1 - Tyrone Edwards  
District 2 - Brian Champagne  
District 3 - Christopher "Chris" Schulz  
District 4 - Dr. Stuart J Guey, Jr.  
District 5 - Patricia L. "Patty" McCarty  
District 6 - Lloyd "Ronnie" Newsom, Jr.  
District 7 - Carlton M LaFrance Sr.  
District 8 - Mitch Jurisich, Jr.  
District 9 - Mark "Hobbo" Cognevich

## ADVERTISEMENT FOR BIDS

Sealed bids will be received by the Plaquemines Parish Government, through its Purchasing Agent, at its office at 333 F EDWARD HEBERT, BLDG 102 ROOM 333, Belle Chasse, LA 70037, until 10:00 A.M., **FRIDAY, DECEMBER 27, 2024**, and then publicly opened and read in the Parish Purchasing Agent's Office, for furnishing **CHEMICALS, for use BY THE WATER & SEWER DEPARTMENTS, Bid #25-81**, all in accordance with specifications on file in the Parish Purchasing Agent's Office, 333 F EDWARD HEBERT, BLDG 102 ROOM 333, Belle Chasse, LA 70037, (Telephone (504) 934-6430, which may be obtained by any bonafide bidder. Evidence of authority to submit the bid shall be required in accordance with R.S. 38:2212 (A) (1) (c) and/or R.S. 23:1594 (c) (2) (d).

The right is reserved to reject any and all bids and to waive any informalities.

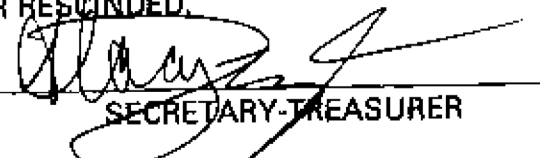
KEITH HINKLEY  
PARISH PRESIDENT  
PLAQUEMINES PARISH GOVERNMENT

**PG: DEC 10, 17, 2024**

**CORPORATE RESOLUTION**

EXCERPT FROM MINUTES OF THE BOARD OF DIRECTORS OF \_\_\_\_\_  
\_\_\_\_\_, INCORPORATED. THE MEETING OF  
DIRECTORS OF \_\_\_\_\_  
INCORPORATED, DULY NOTICED AND HELD ON \_\_\_\_\_, A  
QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED, IT WAS  
RESOLVED: THAT \_\_\_\_\_, BE AND IS HEREBY  
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-FACT OF THE  
CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON BEHALF OF THIS  
CORPORATION IN ALL NEGOTIATIONS, BIDDING CONCERNS AND TRANSACTIONS WITH  
THE PARISH OF PLAQUEMINES OR ANY OF ITS AGENCIES, DEPARTMENTS, EMPLOYEES OR  
AGENTS, INCLUDING BUT NOT LIMITED TO THE EXECUTION OF ALL BIDS, PAPERS,  
DOCUMENTS, AFFIDAVITS, BONDS, SURETIES, CONTRACTS AND ACTS AND TO RECEIVE  
AND RECEIPT THEREFORE ALL PURCHASE ORDERS AND NOTICES ISSUED PURSUANT TO  
THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS CORPORATION HEREBY  
RATIFYING, APPROVING, CONFIRMING AND ACCEPTING EACH AND EVERY SUCH ACT  
PERFORMED BY SAID AGENT AND ATTORNEY-IN-FACT.

I HEREBY CERTIFY THE FOREGOING TO BE  
A TRUE AND CORRECT COPY OF AN  
EXCERPT OF THE MINUTES OF THE ABOVE  
DATED MEETING OF THE BOARD OF  
DIRECTORS OF SAID CORPORATION,  
AND THE SAME HAS NOT BEEN REVOKED  
OR RESCINDED.

  
\_\_\_\_\_  
SECRETARY-TREASURER  
12/17/2024  
\_\_\_\_\_  
DATE

**AFFIDAVIT**

**STATE OF** Washington

**PARISH/COUNTY OF** King

Stacy Ziegler BEING FIRST DULY SWORN,

DEPOSES AND SAYS:

THAT HE IS Municipal Specialist OF  
(PARTNER, OFFICER, OWNER, ETC)

Univar Solutions USA, LLC

(COMPANY)

THE PARTY MAKING THE FOREGOING PROPOSAL BID, THAT SUCH BID IS GENUINE AND NOT COLLUSIVE, NOR A SHAM. THAT SAID BIDDER HAS NOT COLLUDED, CONSPIRED, CONNIVED, OR AGREED, DIRECTLY OR INDIRECTLY, WITH ANY BIDDER OR PERSON, TO PUT IN A SHAM BID OR TO REFRAIN FROM BIDDING, AND HAS NOT IN ANY MANNER DIRECTLY OR INDIRECTLY, SOUGHT BY AGREEMENT OR COLLUSION, OR COMMUNICATION OR CONFERENCE, WITH ANY PERSON TO FIX THE BID PRICE ELEMENT OF SAID BID, OR OF THAT OF ANY OTHER BIDDER OR TO SECURE ANY ADVANTAGE AGAINST ANY OTHER BIDDER OR TO ANY PERSON INTERESTED IN THE PROPOSED CONTRACT. AND THAT ALL STATEMENTS CONTAINED IN SAID PROPOSAL OR BID ARE TRUE.

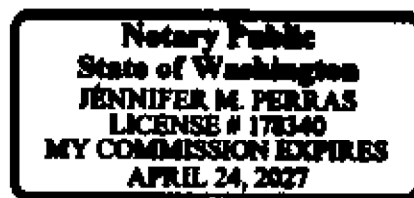
  
(SIGNATURE OF BIDDER)

THE ABOVE STATEMENT MUST BE SUBSCRIBED AND SWORN TO AND BEFORE A NOTARY PUBLIC.

SUBSCRIBED AND SWORN ON THIS 17th DAY OF December  
20 24

BY 

NOTARY PUBLIC



**EMPLOYEE VERIFICATION AFFIDAVIT FORM**

(R.S. 38:2212.10(C))

(Verification of Employees)

Appraiser, as a Bidder, does hereby attest that:

**L.A. R.S. 38:2212.10 Verification of Employees**

- A. Appeler is registered and participates in a status verification system to verify that all employees in the state of Louisiana are legal citizens of the United States or are legal aliens.
- B. If awarded the contract, Appeler shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.
- C. If awarded the contract, Appeler shall require all subcontractors to submit to it a sworn affidavit verifying compliance with Paragraphs (A) and (B) of this Subsection.

**Univar Solutions USA, LLC**

**NAME OF BIDDER**

12/17/2024

DATE \_\_\_\_\_

**Stacy Ziegler**

**NAME OF AUTHORIZED SIGNATORY OF BIDDER**

**Municipal Specialist**

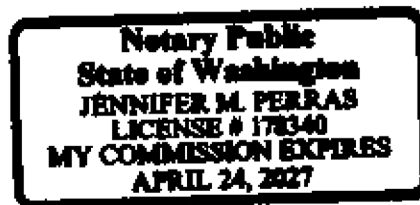
**TITLE OF AUTHORIZED SIGNATORY OF BIDDER**

~~SIGNATURE OF AUTHORIZED  
SIGNATORY OF BIDDER~~

SUBSCRIBED AND SWORN ON THIS 17th DAY OF 12, 2024

**NOTARY PUBLIC**

BID #25-81  
PAGE 5 OF 16



PLAQUEMINES PARISH GOVERNMENT  
PURCHASING DEPARTMENT  
333 F EDWARD HEBERT, BLDG 102 ROOM 333  
BELLE CHASSE, LA 70037

BID NO. 25-81

Sealed bids will be received in the **Purchasing Department, 333 F EDWARD HEBERT, BLDG 102 ROOM 333, BELLE CHASSE, LA 70037** until **10:00 A.M., FRIDAY, DECEMBER 27, 2024.**

**NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL/AND OR PHOTOSTATIC FIGURES OR SIGNATURES DISQUALIFY BID.**

ALL ENVELOPES MUST BE SEALED. ALL BIDS MUST BE EITHER MAILED IN OR HAND DELIVERED TO THE PURCHASING DEPARTMENT. NO FAXED BIDS WILL BE ACCEPTED OR CONSIDERED.

**FOR YOUR CONVENIENCE, AN ENVELOPE IS INCLUDED WITH THIS BID PACKAGE. PLEASE SUBMIT YOUR BID IN THE ENCLOSED ENVELOPE.**

## **INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. This bid package (Pages 1- 15) must be returned in its entirety.

**Questions** pertaining to this bid are to be **faxed only** to (504) 934-6439 no later than **FIVE (5)** working days prior to bid opening. Bid numbers should be mentioned in all requests.

Plaquemines Parish Government reserves the right to reject any and all bids in whole or in part and to waive any and all informalities in the best interest of Plaquemines Parish according to the Law.

The purpose and intention of this bid invitation is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. Plaquemines Parish will accept one bid only from each vendor. Items bid must meet or exceed specifications.

Plaquemines Parish will accept one price for each item unless otherwise indicated. **Two or more prices for one item will result in bid disqualification.**

If the bidder is an agency, corporation, partnership or other legal entity, the president, vice-president, secretary/treasurer or an authorized agent, shall sign the proposal, and satisfactory evidence of the authority of the person signing for the agency, corporation, partnership, or other legal entity, shall be attached to the proposal.

**AWARD OF CONTRACT:** Plaquemines Parish reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of Plaquemines Parish. Every contract or order shall be awarded to the **LOWEST RESPONSIBLE BIDDER**, taking into consideration the **CONFORMITY WITH THE SPECIFICATIONS** and the **DELIVERY AND/OR COMPLETION DATE**.

A preference of 10% is hereby given to foodstuffs and paper products grown, manufactured and processed in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-RS 38:2251-2261."

**USE OF BRAND NAMES AND STOCK NUMBERS:** Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified and complete product data is submitted with bid.

**PRICES:** All prices shall be quoted in the unit of measure specified, and unless otherwise specified, shall be exclusive of State and Parish taxes. As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. All bids shall be based on FOB DELIVERY TO ANY Parish Department, located anywhere within the Parish as designed by the Purchasing Department.

**CANCELLATION OF CONTRACT:** Plaquemines Parish reserves the right to cancel all or any part of the contract if orders are not shipped in the delivery time specified. Plaquemines Parish reserves the right to cancel any contract at anytime and for any reason by issuing a thirty (30) day written notice to the contractor.

If applicable, please indicate: **SMALL BUSINESS** \_\_\_\_\_

**MINORITY BUSINESS** \_\_\_\_\_

Plaquemines Parish requires a firm price for a period of one year. Any quantities listed are for bidding purposes. Actual requirements may be more or less than quantities listed. Plaquemines Parish would like to reserve the right to purchase items from this bid for an additional year directly following the one year term of the original bid if both parties are in agreement to do so.

**WITHDRAWAL OF BID:** A bid may be withdrawn by the bidder **ONLY** if done by **AFFIDAVIT within 48 hours of bid opening**, but only for "patently obvious, unintentional, and substantial mechanical, clerical or mathematical errors." Any bidder who does not fulfill their bid, will be responsible for paying difference between his bid and the next lowest bidder.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975 or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except

that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (d), (d), (e), and (k)(5) of the Regulations.

**RESPONSE TO INVITATION:** If your company is unable to bid on this request, please state your reason on bid form, and return to this office before bid opening date. Failure to do so will result in the removal of your company from all future bids.

A Louisiana State Contractor's license may be required in accordance with LSA-R.S. 37:2150 et seq.

The charter for local Self-Government for Plaquemines Parish prohibits the Government from doing business with any firm, individual, partnership, or corporation employing or owned by an individual who is an elected official or employee of the Plaquemines Parish Government nor any members of such person's immediate family.

**This bid must be signed by an authorized representative of the company/firm for bid to be valid.** Evidence of authority to submit and sign the bid shall be required in accordance with R.S. 38:2212 (A) (1) (c) and/or R.S.23:1594(C) (2) (d). Evidence must be included in the submitted bid package. The corporate resolution must be completed and returned or other evidence to authorize the signature on this bid. **Failure to include a corporate resolution or evidence of authority to sign will result in your bid not being considered for award.**

**COMPLETE** bid package (Pages 1- 15), including instructions and specifications, must be returned in its entirety for bid to be valid. Signing indicates you have read and comply with the instructions and conditions. **Failure to sign all necessary sections of the bid package will result in your bid not being considered for award. Affidavit must be notarized and included in the bid package.** Failure to include all sheets, properly signed and executed will result in your bid not being considered for award.

**TERMS OF PAYMENT:** Payment will be made within 30 days after the end of the month which delivery was made.

**THE PLAQUEMINES PARISH GOVERNMENT CANNOT ACCEPT ANY BIDS BY MAIL OR HAND DELIVERED ON DAYS RECOGNIZED AS HOLIDAYS BY THE UNITED STATES POSTAL SERVICE.**

The Plaquemines Parish Government does not give out bid results over the telephone. All companies bidding will be sent a copy of the "tabulation sheet" for the bids received

\*The name of a particular brand, make or manufacturer in the specifications as provided herein is used only to denote the quality standard of product desired and does not restrict bidders to the specific brand, make, manufacturer or specification name, which are used only to set forth and convey to prospective bidders the general style, character and quality of product desired. Equivalent products meeting the minimum specifications will be acceptable.

### Liquid Ammonia Sulfate

Specifications for furnish liquid ammonia sulfate as follows for use for the Plaquemines Parish Water and Wastewater systems parish wide:

Concentration:	30-40%
Appearance and odor:	Clear, colorless liquid – no odor
Ph	3.0-4.5
Solubility in water	Complete
Specific gravity (water=1)	1.21 – 1.23
Boiling Point:	214.6F (102C)
Freezing Point:	Less 4F

MUST BE NSF Certified

Deliveries are to be made as requested on order:  
Parish Wide – Plaquemines Parish

REQUIRED: truck delivery for totes must have tailgate lift truck

Orders must be shipped within 3 days ARO

Price: \$ 0.3050 per Pound bulk - bulk minimum 40,000 Pound

Price \$ 855.5250 275 Gallon tote

Price per gal \$3.1110



## Sodium Hypochlorite

Specifications to furnish sodium hypochlorite as follows for use by the Water and Wastewater systems parish wide:

Concentration:	12.50%
Appearance and odor:	Clear, pale yellow or greenish
Ph:	12.0 – 13.0
Solubility in water:	Complete
Specific gravity (water=1):	1.20 – 1.40
Boiling point:	Decomposes
Freezing point:	7 – 10 F

Must be NSF Certified

Orders must be shipped 3 days ARO

Deliveries are to be made as requested on order:  
Parish Wide – Plaquemines Parish

REQUIRED: drums/totes tailgate lift truck fro deliveries

Price: \$ No Bid per gallon (bulk) - bulk minimum \_\_\_\_\_ gal

Price: \$ 3.9500 per 55 gallon drum \*5 Drums per order

Price: \$ 3.850 per 250 gallon tote \*2 Totes per order

## CHLORINE GAS LIQUID

Specifications to furnish chlorine gas liquid for the Plaquemines Parish Water and Wastewater systems parish wide:

CONCENTRATION:	99.5% - 100%
APPEARANCE AND COLOR:	Green to yellow gas, amber liquid gas
Ph:	N/A
Solubility in water:	0.7% @ 20C
Specific gravity (water=1)	1.4 @ 15.6 C
Boiling point:	29.27 F (-34.04C)

MUST BE NSF Certified

1200 lb. cylinder \$ No Bid

150# cylinder \$ No Bid (deliver to Empire Booster Station)

DELIVERY must be made within 5 days ARO

Deliveries are to be made as requested on order:  
Parish Wide Plaquemines Parish, LA

## **Cationic Polyacrylamide Polymer**

Specifications for use by the Water/Sewer Department systems parish wide:

Polymer must be specifically designed for wastewater sludge conditioning for belt press Operation. Product must be proven to be effective for a period of two week trial conducted at no charge.

Product must be equal to or superior to Phoenix EC3300 polymers.

Product specifications:

Parameter: specific gravity  
Limits: 1.01-1.19

Typical properties:

Parameter: Appearance  
Results: Opaque liquid

Deliveries to be made as requested per order  
Parish wide Plaquemines Parish, LA

REQUIRED: Tailgate lift for deliveries

Price: \$ No Bid per lb bulk – minimum bulk: \_\_\_\_\_

Price: \$ No Bid per 2500 lb tote

Price \$ No Bid per 450 pound drum

## Chlorine Tablets

### Specifications:

TMB 548-chlorination tablets

2 5/8 inches in size

### DELIVERED:

Parish wide as per request on each order in Plaquemines Parish, LA

Price: \$ 216.00 50# pails  
\$3.600/lb

**GRANULAR CHLORINE**

Specifications:  
CM-MB-608 high performance grade

DELIVERY: Parish wide in Plaquemines Parish, LA as requested per order

Price: \$ No Bid per 50# pails

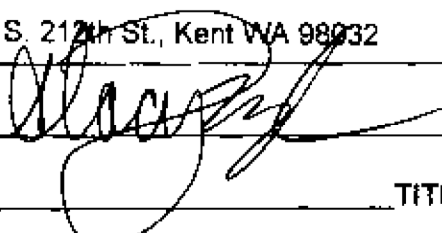
**D-CHLOR DECHLORINATION TABLETS**

**Specifications:**

Sodium Sulfite (Na<sub>2</sub>SO<sub>3</sub>) 92.3% plus moisture

**DELIVERY:** Parish wide in Plaquemines Parish, LA as requested per order

Price: \$ No Bid per 50# pails

NAME OF BIDDER Univar Solutions USA, LLC  
ADDRESS OF BIDDER 8201 S. 212th St., Kent WA 98032  
AUTHORIZED SIGNATURE  DATE 12/17/2024  
PRINT NAME Stacy Ziegler TITLE Municipal Specialist  
PHONE NUMBER (253) 872-5023 FAX NUMBER (253) 872-5041

**CERTIFICATE OF ANALYSIS**

Univar Solutions  
1001 Old Bermuda Hundred Road  
Chester, VA 23836  
PH. (804) 748-8100  
FAX (804) 748-2904  
[www.univarsolutions.com](http://www.univarsolutions.com)

Date: 12/19/2024  
Product: AM SULFATE RTU 40% BULK  
Material Grade: NSF  
Material #: 16218991  
Batch: 24120042

Date of Manufacture: 12/19/2024  
Date of Repackage: 12/19/2024

Analysis Description	UoM	Specification		Results
		Min.	Max.	
Assay (as Ammonium Sulfate)	%	34	42	40.6
pH	pH units	4.0	7.0	4.5
Color	APHA	<=20	N/A	<1
Spec Grav.	N/A	Report Only	Report Only	1.2365

\* Results were extracted from the relevant Manufacture Certificate of Analysis.

Univar Solutions,

Signature

Justin Myrick

Print Name

Transportation Supervisor

Job Title

**Note:**



Certified to  
NSF/ANSI/CAN 60

**Safety Data Sheet****AM SULFATE RTU 40%**

Version 1.0

Revision Date: 08/16/2024

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****Product name** : AM SULFATE RTU 40%**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**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Hazardous components**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

General advice	: 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	: Wash off with soap and water. If skin irritation persists, call a physician.
In case of eye contact	: Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.



**Safety Data Sheet****AM SULFATE RTU 40%**

Version 1.0

Revision Date: 08/16/2024

If symptoms persist, call a physician.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) Foam Dry powder Water mist
Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: toxic fumes ammonia Sulphuric acid Smoke
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Methods and materials for containment and cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	: Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: No materials to be especially mentioned.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**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
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**Safety Data Sheet****AM SULFATE RTU 40%**

Version 1.0

Revision Date: 08/16/2024

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. No personal respiratory protective equipment normally required.

Eye protection : Safety glasses  
Skin and body protection : Protective suit  
Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid  
Colour : Clear, colorless  
Odour : odourless  
Odour Threshold : No data available  
pH : 5.00 - 7.00  
Freezing Point : No data available  
Boiling Point (Boiling point/boiling range) : 100 °C (212 °F)  
Flash point : does not flash  
  
Evaporation rate : No data available  
Flammability (solid, gas) : No data available  
Upper explosion limit : No data available  
  
Lower explosion limit : No data available  
  
Vapour pressure : 2.33 kPa @ 20 °C (68 °F)  
  
Relative vapour density : No data available  
Relative density : No data available  
Density : 1.20 g/cm<sup>3</sup>  
Solubility(ies)  
Water solubility : completely miscible  
Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available  
Auto-ignition temperature : No data available  
Thermal decomposition : No data available  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

**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 : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

**Safety Data Sheet****AM SULFATE RTU 40%**

Version 1.0

Revision Date: 08/16/2024

Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: chlorates Chlorine Copper Copper alloys nitrates nitrites Nitrogen oxides (NOx) Organic materials Oxidizing agents Potassium Powdered metals sodium hypochlorite Strong acids strong alkalis strong reducing agents Zinc

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**SECTION 11. TOXICOLOGICAL INFORMATION****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

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Safety Data Sheet**  
**AM SULFATE RTU 40%**

Version 1.0

Revision Date: 08/16/2024

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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

Additional ecological information : No data available

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**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.

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**SECTION 14. TRANSPORT INFORMATION****DOT (Department of Transportation):** Not regulated as a dangerous good**IATA (International Air Transport Association):** Not regulated as a dangerous good**IMDG-Code:** Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## Safety Data Sheet

### AM SULFATE RTU 40%

Version 1.0

Revision Date: 08/16/2024

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 311/312 Hazards** : No SARA Hazards

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

7783-20-2 Ammonium sulfate

#### 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

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

#### Massachusetts Right To Know

7783-20-2 Ammonium sulfate

#### Pennsylvania Right To Know

7732-18-5 Water

7783-20-2 Ammonium sulfate

#### California Prop 65

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

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

TSCA : On TSCA Inventory

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

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

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

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

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

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

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

## Safety Data Sheet

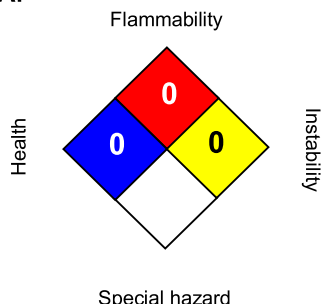
### AM SULFATE RTU 40%

Version 1.0

Revision Date: 08/16/2024

#### SECTION 16. OTHER INFORMATION

##### NFPA:



##### HMIS III:

HEALTH	1/
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

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

Revision Date : 08/16/2024

Material number:  
16219717, 16218991

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit

## Safety Data Sheet

### AM SULFATE RTU 40%

Version 1.0

Revision Date: 08/16/2024

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%		



## Listing Details Ammonium Sulfate 40%

Chemical Name	Ammonium Sulfate
Trade Name	Ammonium Sulfate 40%
Standard/Program	NSF/ANSI/CAN 60 - Drinking Water Treatment Chemicals - Health Effects
Function	Chloramination
Max Use	60 mg/L
Company	Univar Solutions USA 3075 Highland Parkway Suite 200 Downers Grove, Illinois, 60515 United States
Contact	425-889-3400

## Listing Details by Facility

Facility	Related Footnotes
# 7 USA	-
# 14 USA	-
Baden, Ontario, Canada	-
Bunola, PA	NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.
Camby, IN	[1] Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Chester, VA	NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.
Cheyenne, WY	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Croydon, PA	-
Dalton, GA	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Denver, CO	NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.
Durham, NC	-
East Peoria, IL	-
Henderson, KY	-

## Disclaimers

The NSF Product Listings show currently listed companies and products. Although every reasonable effort has been made to assure accuracy, omissions or errors may occur due to the complexity of these listings and their conversion for the internet. If you notice an omission or error, please report it to NSF.

Additions shall not be made to this document without prior evaluation and acceptance by NSF.



Facility	Related Footnotes
Indianapolis, IN	NOTE: Only products bearing the NSF Mark on the product, packing, and/or documentation shipped with the product are Certified.
Marion, OH	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Portland, OR	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Richmond, CA	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Riverside, CA	-
South Gate, CA	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
Tampa, FL	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.
West Frankfort, IL	-

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Additions shall not be made to this document without prior evaluation and acceptance by NSF.

# CERTIFICATE OF ANALYSIS



**Univar Solutions**  
 34200 Distribution Lane  
 Geismar, LA 70734  
 Ph: 225-473-1921  
[www.univarsolutions.com](http://www.univarsolutions.com)

Manufacture Date	12/12/2024	Repackage Date	12/12/2024
Product	Sodium Hypochlorite Solution 12.5%		
Material Grade	NSF		
Material#	16149504		
Manufacture Batch#	22121224	Repackage Batch#	0866P02073

Analysis Description	UoM	Specification		Results
		Min.	Max.	
*Sodium Hypochlorite	%	12.5	15.6	13.50
*Available Chlorine	%	12.0	14.8	12.90
*Excess Caustic	%	.10	5.0	.35
*Specific Gravity	%			1.20

\* Results were extracted from the relevant Manufacture Certificate of Analysis.

Univar Solutions

Sharon Johnson (Signature)  
Sharon Johnson (Printed Name)  
Operations Coordinator (Job Title)

**Note:** Maximum Use for Potable Water: 39mg/L



Certified to  
 NSF/ANSI/CAN 60

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 makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar Solutions is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar Solutions' standard Terms and Conditions, available at [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.

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : LIQUICHLOR® 12.5% SOLUTION

**Recommended use of the chemical and restrictions on use**  
 Recommended use : refer to EPA registered label for specific uses

**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 1B

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****LIQUICHLOR® 12.5% SOLUTION**

Version 1.2

Revision Date: 03/26/2024

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
7681-52-9	Sodium hypochlorite	12.5
1310-73-2	Sodium hydroxide	0 - 5

Actual concentration is withheld as a trade secret

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

**Synonyms** : Bleach,

**SECTION 4. FIRST AID MEASURES**

- General advice : Show this safety data sheet to the doctor in attendance.  
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 : Take victim immediately to hospital.  
Move to fresh air.  
If breathing has stopped, apply artificial respiration.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Remove contaminated clothing. If irritation develops, get medical attention.  
Burns must be treated by a physician.
- In case of eye contact : In case of eye contact  
Immediately flush eye(s) with plenty of water.  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Safety Data Sheet****LIQUICHLOR® 12.5% SOLUTION**

Version 1.2

Revision Date: 03/26/2024

If swallowed	: If easy to do, remove contact lens, if worn. If eye irritation persists, consult a specialist. Take victim immediately to hospital. : Take victim immediately to hospital. Do NOT induce vomiting. Rinse mouth with water. If victim is fully conscious, give a cupful of water. If a person vomits when lying on his back, place him in the recovery position.
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**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) Foam Dry powder
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.

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7681-52-9	Sodium hypochlorite	STEL	2 mg/m3	US WEEL
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****LIQUICHLOR® 12.5% SOLUTION**

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Revision Date: 03/26/2024

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: clear yellow
Odour	: Chlorine
Odour Threshold	: No data available
pH	: 11.5 - 13
Freezing Point (Melting point/freezing point)	: -20 - -15 °C (-4 - 5 °F)
Boiling Point ( )	: 230 °F (230 °F) Decomposition: Decomposition temperature
Flash point	: Not Flammable
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	: 12 - 17.5 mmHg @ 20 °C (68 °F)
Relative vapour density	: No data available
Relative density	: 1.17 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 1.17 g/cm3
Solubility(ies)	
Water solubility	: completely soluble
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
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Acids Combustible material Halogenated compounds Metals metal salts Organic materials



**Safety Data Sheet****LIQUICHLOR® 12.5% SOLUTION**

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organic nitro compounds  
Zinc**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: &gt; 5,000 mg/kg

**Components:****7681-52-9:**

Acute oral toxicity : LD50 (Rat, male): &gt; 2,000 mg/kg

**Skin corrosion/irritation****Components:****7681-52-9:**

Species: Rabbit

Result: Causes burns.

**1310-73-2:**

Species: Rabbit

Result: Causes severe burns.

**Serious eye damage/eye irritation****Components:****7681-52-9:**

Species: Rabbit

Result: Risk of serious damage to eyes.

**1310-73-2:**

Species: Rabbit

Result: Risk of serious damage to eyes.

**Carcinogenicity****IARC**

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

**OSHA**

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

**NTP**

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



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**STOT - single exposure****Components:****7681-52-9:**

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

**Further information****Product:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****7681-52-9:**

Toxicity to fish	: LC50 (Salmo gairdneri (Rainbow Fish)): 0.06 mg/l Exposure time: 96 h Test Type: flow-through test
	LC50 (Pimephales promelas (fathead minnow)): 5.9 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.141 mg/l Exposure time: 48 h Test Type: flow-through test
	EC50 (Ceriodaphnia dubia): 0.035 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae	: IC50: 0.023 mg/l Exposure time: 7 d Test Type: flow-through test
M-Factor (Acute aquatic toxicity)	: 10
Acute aquatic toxicity- Assessment	: Very toxic to aquatic life.
Chronic aquatic toxicity- Assessment	: Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

## Safety Data Sheet

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#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

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

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

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

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

## SECTION 14. TRANSPORT INFORMATION

#### DOT (Department of Transportation):

UN1791, Hypochlorite solutions, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

#### IATA (International Air Transport Association):

UN1791, Hypochlorite solution, 8, III

#### IMDG (International Maritime Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

## 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)
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## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

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Sodium hypochlorite	7681-52-9	100	800
Sodium hydroxide	1310-73-2	1000	20000

#### 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:

7681-52-9 Sodium hypochlorite  
1310-73-2 Sodium hydroxide

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

7681-52-9 Sodium hypochlorite  
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

7681-52-9 Sodium hypochlorite  
1310-73-2 Sodium hydroxide

#### Pennsylvania Right To Know

7732-18-5 Water  
7681-52-9 Sodium hypochlorite  
1310-73-2 Sodium hydroxide

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

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

TSCA : On TSCA Inventory

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

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

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

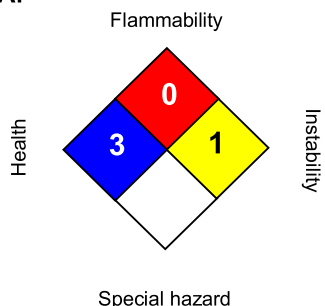
Version 1.2

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

#### SECTION 16. OTHER INFORMATION

##### NFPA:



##### HMIS III:

HEALTH	3/
FLAMMABILITY	0
PHYSICAL HAZARD	1

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

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

Revision Date : 03/26/2024

##### Material number:

16215731, 16214071, 16211872, 16212037, 16211065, 16210830, 16210117, 16206617, 16204823, 16179440, 16173035, 16172686, 16173104, 16185315, 16172598, 16146040, 16151002, 16149524, 16158615, 16145640, 16148059, 16144666, 16147989, 16163791, 16180800, 16164756, 16164592, 16164731, 16164730, 16203820, 16203821, 16203184, 16194505, 16158853, 16151253, 16149870, 16148071, 16148060, 16147684, 16145965, 16145895, 16145890, 16145584, 16145144, 16145142, 16145140, 16145138, 16145137, 16145133, 16145130, 16145079, 16159810, 16150495, 16149123, 16147041, 16145471, 16144665, 16145772, 16148183, 16145046, 16143737, 16135287, 16163624, 16148721, 16155765, 16158840, 16145484, 16166710, 16148748, 16148260, 16166763, 16166591, 16145834, 16166014, 16159793, 16162934, 16165524, 16165444, 16165066, 16137823, 16137455, 16137753, 16147687, 16144215, 16150496, 16149504, 16145673, 16149243, 16136536, 16160181, 16160290, 16144046, 16145139, 16150462, 16149046, 16149516,

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

16148083, 16150461, 16135216, 16156005

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

# Certificate of Quality



CODE: 16141988  
BATCH: 0978P01058  
DATE FILLED: 12/03/2024

Date Printed: 02-Dec-24  
Date Shipped: 02-Dec-24

## Ship-To:

UNIVAR SOLUTIONS USA INC  
2145 SKYLAND COURT  
NORCROSS GA 30071-2960  
USA

## Ship-From:

OLIN CHLOR ALKALI PRODUCTS  
Olin Corporation (OCAP)  
1186 Old Lower River Rd NW  
CHARLESTON TN 37310  
USA



Certified to  
NSF/ANSI/CAN 60

Customer Purchase Order:	4527275199	Net Weight:	48,600.000 LB 22,044.571 KG
Olin Sales Order:	10584473	Gross Weight:	79,560.000 LB 36,087.780 KG
Estimated Bill Quantity:	4,823.435 GAL	Container ID:	5505
Mode:	Truck	Seal No.:	2400;1206;2880;2881;2882;2883

Material Description: Sodium Hypochlorite 12.5 wt% Bacticide

Inspection Lot: 100000660993

Date Manufactured: 02-Dec-24

Characteristic	Unit	Value	Min	Max
Sodium Hypochlorite (NaOCl), wt%	wt%	12.9	12.5	15.6
Available Chlorine (Cl <sub>2</sub> ) gpl	g/l	148.8	145.0	192.0
Total Alkalinity (as NaOH) gpl	g/l	22.5	16.4	85.5
Total Alkalinity as NaOH, wt%	wt%	1.9	1.3	6.7
Actual Sodium Hydroxide (NaOH), wt%	wt%	1.8	0.4	2.5
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) wt%	wt%	0.1	0.0	5.5
Density @ 20 °C	g/ml	1.209		

Certified for the NSF/ANSI/CAN-Standard 60 at a maximum use dosage of 84 mg/L

Product quality information attested by: OLIN CORPORATION

## Olin Document Information

Delivery	Shipment	Ship-To	Material	Insp. Plan	Grp. Cntr	Route/Carrier	Sheet No.
80726633	6900852747	120006615	1000000407	CAP-065	P4	USUS01	1 / 2



# Certificate of Quality



**Date Printed:** 02-Dec-24

**Date Shipped:** 02-Dec-24

Olin quality documents shall apply solely to the above-referenced sales transaction where the Olin product parcel and/or shipping container is received by approved distributors. Any attempt to use Olin quality documents in a subsequent sales transaction by distributor to its customers is unauthorized and voids each such Olin quality document.

®™ Trademark of Olin Corporation or an affiliated company of Olin

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## Olin Document Information

Delivery	Shipment	Ship-To	Material	Insp. Plan	Grp. Cntr	Route/Carrier	Sheet No.
80726633	6900852747	120006615	1000000407	CAP-065	P4	USUS01	2 / 2

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : LIQUICHLOR® 12.5% SOLUTION

##### Recommended use of the chemical and restrictions on use

Recommended use : refer to EPA registered label for specific uses

##### 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 1B

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

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

#### Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

CAS-No.	Chemical name	Weight percent
7681-52-9	Sodium hypochlorite	12.5
1310-73-2	Sodium hydroxide	0 - 5

Actual concentration is withheld as a trade secret

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

Synonyms : Bleach,

### SECTION 4. FIRST AID MEASURES

- General advice : Show this safety data sheet to the doctor in attendance.  
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 : Take victim immediately to hospital.  
Move to fresh air.  
If breathing has stopped, apply artificial respiration.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Remove contaminated clothing. If irritation develops, get medical attention.  
Burns must be treated by a physician.
- In case of eye contact : In case of eye contact  
Immediately flush eye(s) with plenty of water.  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

If swallowed	: If easy to do, remove contact lens, if worn. If eye irritation persists, consult a specialist. Take victim immediately to hospital. : Take victim immediately to hospital. Do NOT induce vomiting. Rinse mouth with water. If victim is fully conscious, give a cupful of water. If a person vomits when lying on his back, place him in the recovery position.
--------------	--

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) Foam Dry powder
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.

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7681-52-9	Sodium hypochlorite	STEL	2 mg/m3	US WEEL
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****LIQUICHLOR® 12.5% SOLUTION**

Version 1.2

Revision Date: 03/26/2024

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: clear yellow
Odour	: Chlorine
Odour Threshold	: No data available
pH	: 11.5 - 13
Freezing Point (Melting point/freezing point)	: -20 - -15 °C (-4 - 5 °F)
Boiling Point ( )	: 230 °F (230 °F) Decomposition: Decomposition temperature
Flash point	: Not Flammable
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	: 12 - 17.5 mmHg @ 20 °C (68 °F)
Relative vapour density	: No data available
Relative density	: 1.17 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 1.17 g/cm3
Solubility(ies)	
Water solubility	: completely soluble
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
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Acids Combustible material Halogenated compounds Metals metal salts Organic materials

**Safety Data Sheet****LIQUICHLOR® 12.5% SOLUTION**

Version 1.2

Revision Date: 03/26/2024

organic nitro compounds  
Zinc**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: &gt; 5,000 mg/kg

**Components:****7681-52-9:**

Acute oral toxicity : LD50 (Rat, male): &gt; 2,000 mg/kg

**Skin corrosion/irritation****Components:****7681-52-9:**

Species: Rabbit

Result: Causes burns.

**1310-73-2:**

Species: Rabbit

Result: Causes severe burns.

**Serious eye damage/eye irritation****Components:****7681-52-9:**

Species: Rabbit

Result: Risk of serious damage to eyes.

**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.

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

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#### STOT - single exposure

##### Components:

##### **7681-52-9:**

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

#### Further information

##### Product:

Remarks: No data available

---

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **7681-52-9:**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 ( <i>Salmo gairdneri</i> (Rainbow Fish)): 0.06 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test |
|   |   | LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 5.9 mg/l<br>Exposure time: 96 h<br>Test Type: static test  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 ( <i>Daphnia magna</i> (Water flea)): 0.141 mg/l<br>Exposure time: 48 h<br>Test Type: flow-through test    |
|   |   | EC50 ( <i>Ceriodaphnia dubia</i> ): 0.035 mg/l<br>Exposure time: 48 h<br>Test Type: flow-through test           |
| Toxicity to algae                                   | : | IC50: 0.023 mg/l<br>Exposure time: 7 d<br>Test Type: flow-through test  |
| M-Factor (Acute aquatic toxicity)                   | : | 10  |
| Acute aquatic toxicity- Assessment                  | : | Very toxic to aquatic life.   |
| Chronic aquatic toxicity- Assessment                | : | Toxic to aquatic life with long lasting effects.  |

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

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#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

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

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

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

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

## SECTION 14. TRANSPORT INFORMATION

#### DOT (Department of Transportation):

UN1791, Hypochlorite solutions, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

#### IATA (International Air Transport Association):

UN1791, Hypochlorite solution, 8, III

#### IMDG (International Maritime Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

## 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

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

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Sodium hypochlorite	7681-52-9	100	800
Sodium hydroxide	1310-73-2	1000	20000

#### 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 Inter-mediate 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:

7681-52-9 Sodium hypochlorite  
1310-73-2 Sodium hydroxide

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

7681-52-9 Sodium hypochlorite  
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

7681-52-9 Sodium hypochlorite  
1310-73-2 Sodium hydroxide

#### Pennsylvania Right To Know

7732-18-5 Water  
7681-52-9 Sodium hypochlorite  
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 re-productive harm.

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

TSCA : On TSCA Inventory

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

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



## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

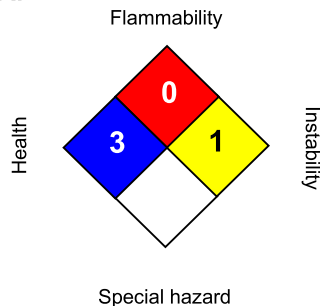
Version 1.2

Revision Date: 03/26/2024

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

#### SECTION 16. OTHER INFORMATION

##### NFPA:



##### HMIS III:

HEALTH	3/
FLAMMABILITY	0
PHYSICAL HAZARD	1

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

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

Revision Date : 03/26/2024

##### Material number:

16215731, 16214071, 16211872, 16212037, 16211065, 16210830, 16210117, 16206617, 16204823, 16179440, 16173035, 16172686, 16173104, 16185315, 16172598, 16146040, 16151002, 16149524, 16158615, 16145640, 16148059, 16144666, 16147989, 16163791, 16180800, 16164756, 16164592, 16164731, 16164730, 16203820, 16203821, 16203184, 16194505, 16158853, 16151253, 16149870, 16148071, 16148060, 16147684, 16145965, 16145895, 16145890, 16145584, 16145144, 16145142, 16145140, 16145138, 16145137, 16145133, 16145130, 16145079, 16159810, 16150495, 16149123, 16147041, 16145471, 16144665, 16145772, 16148183, 16145046, 16143737, 16135287, 16163624, 16148721, 16155765, 16158840, 16145484, 16166710, 16148748, 16148260, 16166763, 16166591, 16145834, 16166014, 16159793, 16162934, 16165524, 16165444, 16165066, 16137823, 16137455, 16137753, 16147687, 16144215, 16150496, 16149504, 16145673, 16149243, 16136536, 16160181, 16160290, 16144046, 16145139, 16150462, 16149046, 16149516,

## Safety Data Sheet

### LIQUICHLOR® 12.5% SOLUTION

Version 1.2

Revision Date: 03/26/2024

16148083, 16150461, 16135216, 16156005

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



## Listing Details Sodium Hypochlorite - 12.5 Bacticide

Chemical Name	Sodium Hypochlorite
Trade Name	Sodium Hypochlorite - 12.5 Bacticide
Standard/Program	NSF/ANSI/CAN 60 - Drinking Water Treatment Chemicals - Health Effects
Function	Algicide, Disinfection & Oxidation
Max Use	84 mg/L
Company	Olin DBA Olin Chlor Alkali Products DBA Blue Cube Operations DBA KA Steel 490 Stuart Road Northwest Cleveland, Tennessee, 37312 United States
Contact	423-336-4489

## Listing Details by Facility

Facility	Related Footnotes
Cleburne, TX	[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.
Distribution Center - Detroit, MI	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified. [HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.
Lemont, IL	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified. [HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.
Oshkosh, WI	[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

## Disclaimers

The NSF Product Listings show currently listed companies and products. Although every reasonable effort has been made to assure accuracy, omissions or errors may occur due to the complexity of these listings and their conversion for the internet. If you notice an omission or error, please report it to NSF.

Additions shall not be made to this document without prior evaluation and acceptance by NSF.

Facility	Related Footnotes
Cleburne, TX	[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.
Distribution Center - Detroit, MI	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified. [HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.
Lemont, IL	NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified. [HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.
Oshkosh, WI	[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

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Westlake Chemicals &  
Vinyls LLC

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1 of 1

## Quality Certificate of Analysis

UNIVAR USA INC  
532 EMAUS STREET  
MIDDLETOWN PA 17057

UNIVAR SOLUTIONS USA INC  
ATTN: ACCOUNTS PAYABLE  
6000 PARKWOOD PLACE  
DUBLIN OH 43016

**Ship Date**  
06/11/2024  
**PO No.**  
4526950764  
**Order No.**  
2397607-000010  
**Customer number**  
36557  
**Plant:** Natrium  
**Customer Contact:**  
**Vessel Id:**

**Delivery Item.**  
85689397-900001  
**Shipment**  
1155282  
**Net Wt**  
8,640.000 LB

**Material:** W8004313 ACCUTAB SI 60 LB PAIL

**Batch:** D29437 **MFG DATE:** April 2024 **Package Qty:** 144 PL

Property	Unit	Value	Lower Limit	Upper Limit	Method
Available Chlorine	%wt	66.20	65.00	71.00	
Height	MM	33.8	32.5	34.7	
Moisture	%wt	6.1	5.5	8.5	
Weight	g	316.0	310.0	340.0	

### Material Sales Text

**Seal No:**

**NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals**-This product is certified to NSF/ANSI/CAN Standard 60, Drinking Water Treatment Chemicals - Health Effects. The maximum use level for potable water is 15 mg/L.



*The test results herein are believed to be accurate but are laboratory tests based on limited sampling which do not necessarily simulate actual use conditions. The shipped goods are delivered in their present condition as is without warrant. NO REPRESENTATIONS, GUARANTEES, OR WARRANTIES OF ANY KIND ARE MADE AND WESTLAKE SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR USE. Westlake shall not be liable for any use or handling of any material beyond Westlake's direct control.*

Date : 06/13/2024  
Time : 14:48:39

Required Signature

Joe M<sup>c</sup>Mullen



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

**Product Name**

- **Calcium Hypochlorite Tablets**

**Synonyms**

- 7000; Accu-Tab® SI Calcium Hypochlorite Tablets; Accu-Tab® Wastewater Tablets; Aquabalance Blue SI Calcium Hypochlorite Tablets; Aquaward® Tablets; Bio-Sanitizer; Blue Crystal; C2180T; Ca(OCl)<sub>2</sub>. Accu-Tab® Blue Calcium Hypochlorite Tablets; Cal Hypo Tablets; Indutabs™; Jet-Chlor; Pittabs™; PML Pool Management Line Calcium Hypochlorite Tablets; Power Pro Tabs™; Repak™ Tabs; Sanuril® Tablets; Sustain® 3" Chlorinating Tablets; Sustain® Shield Energizer; VersaChlor™ System Chlorinating Tablets; Accu-Tab® Calcium Hypochlorite Tablets; Incredipool™

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified use(s)** • Industrial Application, Chlorine Disinfectant, Pool Chemicals

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer**

- Axiall, LLC  
2801 Post Oak Blvd., Suite 600  
Houston, TX 77056  
United States  
www.westlake.com  
SDSinfo@westlake.com

**Telephone (General)** • +1 713-960-9111

#### 1.4 Emergency telephone number

- Manufacturer** • +1 304-455-6882

### Section 2: Hazards Identification

**EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

#### 2.1 Classification of the substance or mixture

**CLP**

- Oxidizing Solids 2 - H272  
Acute Toxicity Oral 4 - H302  
Skin Corrosion 1B - H314  
Serious Eye Damage 1 - H318  
Hazardous to the aquatic environment Acute 1 - H400

#### 2.2 Label Elements

**CLP**

**DANGER**





- Hazard statements •** H272 - May intensify fire; oxidizer  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage  
H400 - Very toxic to aquatic life

### Precautionary statements

- Prevention •** P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 - Keep/Store away from clothing and other combustible materials.  
P221 - Take any precaution to avoid mixing with combustibles  
P260 - Do not breathe dust.  
P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response •** P370+P378 - In case of fire: Use appropriate media for extinction.  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P363 - Wash contaminated clothing before reuse.  
P321 - Specific treatment, see supplemental first aid information.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P391 - Collect spillage.
- Storage/Disposal •** P405 - Store locked up.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Supplemental information •** 1-3 percent of this product consists of an ingredient of unknown toxicity.

### 2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

## UN GHS Revision 3

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

### 2.1 Classification of the substance or mixture

- UN GHS** • Oxidizing Solids 2  
Acute Toxicity Oral 4  
Skin Corrosion 1B  
Serious Eye Damage 1  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  
Hazardous to the aquatic environment Acute 1  
Hazardous to the aquatic environment Chronic 1

### 2.2 Label elements

**UN GHS**

**DANGER**



- Hazard statements •** May intensify fire; oxidizer  
Harmful if swallowed

Causes severe skin burns and eye damage.  
Causes serious eye damage  
May cause respiratory irritation  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

## Precautionary statements

- Prevention** • Keep away from heat.  
Keep/Store away from clothing and other combustible materials.  
Do not eat, drink or smoke when using this product.  
Take any precaution to avoid mixing with combustibles  
Use only outdoors or in a well-ventilated area.  
Do not breathe dust.  
Wash thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor/physician.  
Collect spillage.
- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information** • 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

- UN GHS** • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Oxidizing Solids 2  
Acute Toxicity Oral 4  
Skin Corrosion 1B  
Serious Eye Damage 1  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

## 2.2 Label elements

**OSHA HCS 2012**

### DANGER



- Hazard statements** • May intensify fire; oxidizer  
Harmful if swallowed  
Causes severe skin burns and eye damage.



Causes serious eye damage  
May cause respiratory irritation

## Precautionary statements

- Prevention** • Keep away from heat.  
Keep/Store away from clothing and other combustible materials.  
Take any precaution to avoid mixing with combustibles  
Do not breathe dust.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor/physician.
- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information** • 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS 2015

## 2.1 Classification of the substance or mixture

WHMIS 2015

- Oxidizing Solids 2  
Acute Toxicity Oral 4  
Skin Corrosion 1B  
Serious Eye Damage 1  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

## 2.2 Label elements

WHMIS 2015

**DANGER**



- Hazard statements** • May intensify fire; oxidizer  
Harmful if swallowed  
Causes severe skin burns and eye damage.  
Causes serious eye damage  
May cause respiratory irritation

## Precautionary statements

- Prevention** • Keep away from heat

Take any precaution to avoid mixing with combustibles  
 Keep away from clothing and other combustible materials.  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wear fire resistant or flame retardant clothing.

- Response •** In case of fire: Use appropriate media to extinguish.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER/doctor if you feel unwell.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 Wash contaminated clothing before reuse.  
 Specific treatment, see supplemental first aid information.  
 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/ physician.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- Storage/Disposal •** Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information •** 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

### WHMIS 2015

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Calcium hypochlorite	CAS:7778-54-3 EC Number:231-908-7 EU Index:017-012-00-7	65% TO 76%	NDA	EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400 UN GHS Revision 3: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1 OSHA HCS 2012: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit. WHMIS 2015: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit.
Sodium chloride	CAS:7647-14-5 EC Number:231-598-3	10% TO 30%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	EU CLP: Eye Irrit 2, H319 UN GHS Revision 3: Eye Irrit. 2; Acute Tox. 5 (orl); Skin Irrit. 3 OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Eye Irrit. 2
Calcium hydroxide	CAS:1305-62-0 EC Number:215-137-3	1% TO 3%	Ingestion/Oral-Rat LD50 • 7340 mg/kg	EU CLP: Eye Dam. 1 H318; Skin Corr. 1. H314; Aquatic Chronic 3, H412 UN GHS Revision 3: Eye Dam. 1; Skin Corr. 1; OSHA HCS 2012: Eye Dam. 1; Skin Corr. 1

				<b>WHMIS 2015:</b> Eye Dam. 1; Skin Corr. 1
Calcium chlorate	<b>CAS:</b> 10137-74-3 <b>EINECS:</b> 233-378-2	0% TO 3%	NDA	<b>EU CLP:</b> Ox. Sol. 2, H272 <b>UN GHS Revision 3:</b> Ox. Sol. 2 <b>OSHA HCS 2012:</b> Ox. Sol. 2 <b>WHMIS 2015:</b> Ox. Sol. 2
Calcium carbonate	<b>CAS:</b> 471-34-1 <b>EC Number:</b> 207-439-9	1% TO 3%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	<b>EU CLP:</b> Skin Irrit. 2, H315; Eye Irrit. 2, H319 <b>UN GHS Revision 3:</b> Eye Irrit. 2; Skin Irrit. 2 <b>OSHA HCS 2012:</b> Eye Irrit. 2; Skin Irrit. 2 <b>WHMIS 2015:</b> Eye Irrit. 2; Skin Irrit. 2
Pentasodium triphosphate	<b>CAS:</b> 7758-29-4 <b>EC Number:</b> 231-838-7	< 1%	Ingestion/Oral-Rat LD50 • 3120 mg/kg Skin-Rabbit LD50 • >4640 mg/kg	<b>EU CLP:</b> Skin Irrit. 2, H315 <b>UN GHS Revision 3:</b> Skin Irrit. 2; Acute Tox. 5 (orl) <b>OSHA HCS 2012:</b> Skin Irrit. 2 <b>WHMIS 2015:</b> Skin Irrit. 2
Calcium chloride	<b>CAS:</b> 10043-52-4 <b>EC Number:</b> 233-140-8 <b>EU Index:</b> 017-013-00-2	0.1%	Ingestion/Oral-Rat LD50 • 1 g/kg	<b>EU CLP:</b> Annex VI, Table 3.1: Eye Irrit. 2, H319 <b>UN GHS Revision 3:</b> Eye Irrit. 2; Acute Tox. 4 (orl); <b>OSHA HCS 2012:</b> Eye Irrit. 2; Acute Tox. 4 (orl); <b>WHMIS 2015:</b> Eye Irrit. 2; Acute Tox. 4 (orl)

See Section 16 for full text of H-statements.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison control center or doctor for further treatment advice.

#### Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Call a poison center or doctor for treatment advice.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a Poison Control Center or doctor for treatment advice.

#### Ingestion

- If swallowed, seek medical attention immediately from poison control center or doctor. Have a person sip a glass of water, if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the poison control center or doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

- If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during, or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- Probable mucosal damage may contraindicate the use of gastric lavage. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

## 5.1 Extinguishing media

**Suitable Extinguishing Media** • Drench with large quantities of water only.

**Unsuitable Extinguishing Media** • Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

## 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • Containers may explode when heated.  
May explode from heat or contamination.  
May ignite combustibles (wood, paper, oil, clothing, etc.)  
Runoff may create fire or explosion hazard.  
Some will react explosively with hydrocarbons (fuels)  
These substances will accelerate burning when involved in a fire.  
Emits toxic fumes under fire conditions.  
Chlorine gas may be generated.

**Hazardous Combustion Products** • Decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

## 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).  
SMALL FIRES: Move containers from fire area if you can do it without risk.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.  
This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions** • Use extreme caution in handling spilled material. Ventilate the area before entry. Use spark-proof tools and explosion-proof equipment. Do not walk through spilled material. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures** • Avoid generating dust.  
If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container.

Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

## 6.4 Reference to other sections

- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use extreme caution in handling spilled material. Use only with adequate ventilation. Keep away from combustible material. Strong oxidizer. Contact with other material may cause fire. Use spark-proof tools and explosion-proof equipment. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Always add product to large quantities of water to fully dissolve product. Do not pour water into product, always add product to water. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not use with stabilized chlorine or bromine tablet chemical feeders. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Ventilate enclosed areas. Keep only in the original container. Keep container closed. Separate from acids, alkalis, reducing agents and combustibles. Product is an NFPA Class 3 oxidizer which can cause a severe increase in fire intensity. Store in a cool, dry, well-ventilated place. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Ontario	Canada Quebec	NIOSH
C.I. Pigment Blue 15	TWAs	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>	Not established	Not established	Not established	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>
Calcium chloride (10043-52-4)	TWAs	Not established	Not established	5 mg/m <sup>3</sup> TWA	Not established	Not established
Calcium hydroxide (1305-62-0)	TWAs	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWAEV	5 mg/m <sup>3</sup> TWA



Calcium carbonate (471-34-1)	TWAs	Not established	Not established	Not established	10 mg/m3 TWA <sub>EV</sub> (total dust)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Exposure Limits/Guidelines (Con't.)						
			Result	OSHA		
Calcium hydroxide (1305-62-0)			TWAs	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)		

## 8.2 Exposure controls

### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

### Personal Protective Equipment

#### Respiratory

- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Eye/Face

- Wear chemical splash goggles and face shield.

#### Skin/Body

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. GLOVES: Nitrile, neoprene, and butyl rubber.

### Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

TWAEV = Time-Weighted Average Exposure Value

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Various colored solid (tablets) with a slight chlorine odor.
Color	Various colors.	Odor	Slight chlorine odor.
Odor Threshold	No data available		
General Properties			
Boiling Point	Decomposes @ 170-180°C (338-356°F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	170 to 180 °C(338 to 356 °F)	pH	Alkaline
Specific Gravity/Relative Density	No data available	Bulk Density	1 to 1.07 g/cm <sup>3</sup>
Water Solubility	Soluble 100 %	Viscosity	No data available

**Volatility**

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	0 %
Volatiles (Vol.)	0 %		

**Flammability**

Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	60 °C(140 °F)	Flammability (solid, gas)	No data available

**Environmental**

Octanol/Water Partition coefficient	No data available		
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**9.2 Other Information**

- No additional physical and chemical parameters noted.

**Section 10: Stability and Reactivity****10.1 Reactivity**

- No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

- The product may not be stable under certain conditions of storage or use. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas.

**10.3 Possibility of hazardous reactions**

- Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials, contact with acids/ammonia. Reactions may include the following: risk of causing or intensifying fire, liberation of toxic gas.

**10.4 Conditions to avoid**

- Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

**10.5 Incompatible materials**

- Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, ammonia, petroleum products, paint products, wood and paper, and pool chemicals. Acid or ammonia contamination will release toxic gases.

**10.6 Hazardous decomposition products**

- Depending on conditions, product slowly releases chlorine gas.

**Section 11 - Toxicological Information****11.1 Information on toxicological effects**

Components		
Calcium chloride (0.1%)	10043-52-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1 g/kg
Calcium hydroxide (1% TO 3%)	1305-62-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 7340 mg/kg; <b>Irritation:</b> Eye-Rabbit • 10 mg • Severe irritation
Calcium carbonate (1% TO 3%)	471-34-1	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 6450 mg/kg; <b>Irritation:</b> Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation

Sodium chloride (10% TO 30%)	7647-14 -5	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3000 mg/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; <b>Vascular:BP elevation not characterized in autonomic section;</b> <b>Mutagen:</b> Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); <b>Reproductive Effects:Maternal Effects:Postpartum; Reproductive Effects:Effects on Newborn:Biochemical and metabolic</b>
Pentasodium triphosphate (< 1%)	7758-29 -4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3120 mg/kg; <b>Behavioral:Somnolence (general depressed activity); Behavioral:Coma;</b> Skin-Rabbit LD50 • >4640 mg/kg; <b>Behavioral:Somnolence (general depressed activity); Lungs, Thorax, or Respiration:Dyspnea;</b> <b>Irritation:</b> Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation
Calcium hypochlorite (65% TO 76%)	7778-54 -3	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 850 mg/kg

GHS Properties	Classification
<b>Acute toxicity</b>	EU/CLP • Acute Toxicity - Oral 4 - ATEmix (oral)= 1118 mg/kg UN GHS 3 • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg WHMIS 2015 • Acute Toxicity - Oral 4 - ATEmix (oral) = 1058 mg/kg
<b>Skin corrosion/Irritation</b>	EU/CLP • Skin Corrosion 1B UN GHS 3 • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B WHMIS 2015 • Skin Corrosion 1B
<b>Serious eye damage/Irritation</b>	EU/CLP • Serious Eye Damage 1 UN GHS 3 • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1 WHMIS 2015 • Serious Eye Damage 1
<b>Skin sensitization</b>	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
<b>Respiratory sensitization</b>	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
<b>Aspiration Hazard</b>	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
<b>Carcinogenicity</b>	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
<b>Germ Cell Mutagenicity</b>	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
<b>Toxicity for Reproduction</b>	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available



	<b>WHMIS 2015</b> • No data available
<b>STOT-SE</b>	<b>EU/CLP</b> • No data available <b>UN GHS 3</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation <b>OSHA HCS 2012</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation <b>WHMIS 2015</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
<b>STOT-RE</b>	<b>EU/CLP</b> • No data available <b>UN GHS 3</b> • No data available <b>OSHA HCS 2012</b> • No data available <b>WHMIS 2015</b> • No data available

## Potential Health Effects

### Inhalation

- Acute (Immediate)** • May cause corrosive burns - irreversible damage. May cause respiratory irritation.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

### Skin

- Acute (Immediate)** • Causes severe skin burns.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials will cause dermatitis.

### Eye

- Acute (Immediate)** • Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

### Ingestion

- Acute (Immediate)** • Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

#### Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

## Section 12 - Ecological Information

### 12.1 Toxicity

	CAS	
Calcium Hypochlorite Tablets	NDA	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) <i>Bluegill</i> - <i>Lepomis macrochirus</i> 57-60 µg/L [Fresh water] Comments: Calcium hypochlorite 96 Hour(s) LC50 <i>Atlantic silverside</i> - <i>Menidia menidia</i> 37 µg/L [Marine water] Comments: Calcium hypochlorite 96 Hour(s) LC50 <i>Bluegill</i> - <i>Lepomis macrochirus</i> 1294600 µg/L [Fresh water] Comments: Sodium chloride 96 Hour(s) LC50 <i>Guppy</i> - <i>Poecilia reticulata</i> 356 mL/kg [Marine water] Comments: Calcium hydroxide 96 Hour(s) NOEC <i>Guppy</i> - <i>Poecilia reticulata</i> 56 mg/L [Marine water] Comments: Calcium hydroxide <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) EC50 <i>Water flea</i> - <i>Daphnia magna</i> 402600-469200 µg/L [Fresh water] Comments: Sodium chloride 48 Hour(s) EC50 <i>Water flea</i> - <i>Daphnia magna</i> 0.073-0.079 µg/L [Fresh water] Comments: Calcium hypochlorite

- LC50: 0.088 mg/L (96 hr, Bluegill Sunfish) Very toxic to aquatic life. Do not allow to

enter groundwater, surface water or drains. Hazardous to the aquatic environment  
Chronic 1.

## 12.2 Persistence and degradability

- Material data lacking.

## 12.3 Bioaccumulative potential

- Material data lacking.

## 12.4 Mobility in Soil

- Material data lacking.

## 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

## 12.6 Other adverse effects

- No studies have been found.

# Section 13 - Disposal Considerations

## 13.1 Waste treatment methods

### Product waste

- The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed. If this is not possible, material may be neutralized. Please contact Axiall Corporation Emergency Response team for guidance at 304-455-6882. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Empty containers retain product residue and can be hazardous. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
TDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IMO/IMDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IATA/ICAO	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Chronic Aquatic Toxicity
ADR	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant

**14.6 Special precautions for user**

- Under 49 CFR (DOT), non-bulk U.S. domestic shipments by ground do not require Marine Pollutant markings or labels, nor does Marine Pollutant need to be mentioned on shipping papers.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

- Data lacking.

**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications**

- Acute, Fire

**FIFRA – Pesticide Labeling**

This chemical is a pesticide product registered by the Environmental Protection Agency and is regulated under FIFRA. Pesticide products are exempt from TSCA and not subject to inventory requirements.

- This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Calcium chloride	10043-52-4	Yes	No	Yes	No	Yes
Calcium hydroxide	1305-62-0	Yes	No	Yes	No	Yes
Calcium carbonate	471-34-1	Yes	No	Yes	No	Yes
Calcium chlorate	10137-74-3	No	No	Yes	No	No
Calcium hypochlorite	7778-54-3	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes
Pentasodium triphosphate	7758-29-4	Yes	No	Yes	No	Yes

**Canada****Labor****Canada - WHMIS 1988 - Classifications of Substances**

• Calcium chloride	10043-52-4	D2B
• Calcium hypochlorite	7778-54-3	C, E
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	E
• Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
• Calcium carbonate	471-34-1	Uncontrolled product according to WHMIS classification criteria

**Canada - WHMIS 1988 - Ingredient Disclosure List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	1 %
• Sodium chloride	7647-14-5	Not Listed

• Calcium carbonate	471-34-1	Not Listed
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**Environment****Canada - CEPA - Priority Substances List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	10 lb final RQ; 4.54 kg final RQ
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed

• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

### 15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

### Revision Date

- 27/July/2021

### Preparation Date

- 26/June/2015

### Disclaimer/Statement of Liability

- The technical data given herein is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

### Key to abbreviations

NDA = No Data Available



## Listing Details Accu-Tab Calcium Hypochlorite Tablets

Chemical Name	Calcium Hypochlorite
Trade Name	Accu-Tab Calcium Hypochlorite Tablets
Standard/Program	NSF/ANSI/CAN 60 - Drinking Water Treatment Chemicals - Health Effects
Function	Disinfection & Oxidation
Max Use	15 mg/L
Company	Westlake Chemicals & Vinyls LLC 2801 Post Oak Boulevard Suite 600 Houston, Texas, 77056 United States
Contact	713-960-9111

## Listing Details by Facility

Facility	Related Footnotes
Sauget, IL	[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

### Disclaimers

The NSF Product Listings show currently listed companies and products. Although every reasonable effort has been made to assure accuracy, omissions or errors may occur due to the complexity of these listings and their conversion for the internet. If you notice an omission or error, please report it to NSF.

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