

CONTRACT DATA SHEET

Monroe County Division of Purchasing 200 County Office Building, Rochester NY 14614

TITLE:	SODIUM HYPOCHLORITE, LIQUID

CONTRACT #: 0908-21 (770000096)

CONTRACT DATES:

BUYER: PHONE: EMAIL: Sean Wilcox 585/753-1136 swilcox@monroecounty.gov

10/01/21 - 09/30/2025

VENDOR(S):

Bison Laboratories, Inc. 100 Leslie Street Buffalo, NY 14211-1621

> Sean Wilcox Buyer

XC: BP FILE VENDOR

TERMS AND CONDITIONS

BID ITEM:	SODIUM HYPOCHLORITE, LIQUID
FOR:	Department of Environmental Services
<u>PURCHASING</u> CONTACT:	The Buyer, identified below, is the sole point of contact regarding this Bid from the date of issuance until the bids are opened and the results made public.
	Sean Wilcox Monroe County Division of Purchasing 200 County Office Building 39 West Main Street Rochester, NY 14614 Email: <u>swilcox@monroecounty.gov</u>
	All requests for bid clarification must be submitted in writing to the Buyer referenced above and received no later than close of business (5:00 PM Eastern Standard Time) on Tuesday, September 14, 2021 .
	All questions will be answered and documented in writing as an Addendum to the Bid. These will be sent out to all Bidders who received the original Bid no later than Wednesday, September 15, 2021 .
DUPLICATE COPIES:	PLEASE SUBMIT YOUR BID IN DUPLICATE; THE ORIGINAL AND ONE (1) COPY.
DUPLICATE COPIES: BID INFORMATION:	
	COPY. At the time of bid, the bidder shall supply detailed specifications covering the item(s) contained herein and shall clearly indicate any areas in which item or
<u>BID INFORMATION:</u> SUBMITTAL OF FORMAL	COPY. At the time of bid, the bidder shall supply detailed specifications covering the item(s) contained herein and shall clearly indicate any areas in which item or items offered do not fully comply with the specifications contained herein. Bid proposal must be legible and submitted in the original form, bearing an original signature. EMAILS AND FACSIMILES ARE NOT ACCEPTABLE. All bidders must submit proof that they have obtained the required Workers'
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QUANTITIES:The quantities listed are the estimated <u>annual</u> requirements and should not be
construed to represent either maximum or minimum quantities to be ordered
during the contract term. <u>Estimate is an average based upon actual</u>
annual usage by County departments only.

- **BRAND REFERENCE:** References to a manufacturer's product by brand name or number are done solely to establish the minimum quality and performance characteristics required. Bidders may submit bids on alternates, but must attach two (2) copies of manufacturer specifications for any alternate at the time of the bid. Further, the bidder must demonstrate that the alternate proposed has a sufficient operating track record to show the equipment will perform per the specified brand. The acceptance of a bidder's alternate rests solely with Monroe County.
- QUALIFIED BIDDER: Each bidder must be prepared to present satisfactory proof of his capacity and ability to perform this contract. Such proof may include, but is not limited to, an inspection of the bidder's facilities and equipment, financial statements, references and performance of similar contracts. The Purchasing Manager reserves the right to reject any bid where the bidder cannot satisfy the County as to their ability to perform. Monroe County reserves the right to reject any and all bids if the Monroe County Purchasing Manager deems said action to be in the best interests of Monroe County.
- METHOD OF
 Monroe County intends to award the bid to the lowest responsive and responsible bidder, based on the TOTAL. Bidder must bid on all items in order to be considered. The County reserves the right to reject any and all bids if the Purchasing Manager deems said action to be in the best interest of the County.
- **<u>CONTRACT TERM:</u>** Contract will start with the date of the contract award and run through **September 30, 2022**, with the option to renew the contract up to four (4) additional twelve (12) month periods with the mutual consent of both parties.

PRICE CHANGES:

MINIMUM ORDER:

- Price changes may be proposed by either party no later than forty-five (45) days prior to contract extension, based upon manufacturer price changes which must be supported with documentation. Should price changes not be acceptable to both parties, the contract will not be extended. Prices may change only at the time of extension.
- No minimum order is specified for this contract. Agencies must be able to order as needed. **Political subdivisions and others authorized by law may participate in this contract**.

DELIVERY:	All deliveries to be F.O.B. Monroe County to agency as specified by a	
	Purchase Order. Delivery costs must be built into the unit prices bid. Initial	
	deliveries must be made within two (2) weeks after receipt of purchase order	
	number. Subsequent deliveries are to be made within seventy two (72) hours	
	after the order is scheduled. The County reserves the right to terminate the	
	contract in the event the specified delivery time is not met.	

- PURCHASE ORDERDelivery of services may be directed by the receipt of a Purchase Order only.ISSUANCE:Items that are not part of this bid will not be paid for by Monroe County.
As to all purchase orders issued by Monroe County, exceptions may only be
authorized, in writing, by the Purchasing Manager or her authorized agent prior
to delivery.
- BILLING
 All invoices for items sold any authorized agency as a result of this contract

 PROCEDURE:
 must be billed in the following manner: Purchase Order #, Quantity,

 Description of Item Purchased, BP#, Item #, Extension and Total.
 ALL

 INVOICES MUST BE MARKED WITH THE PURCHASE ORDER NUMBER.
 INVOICES WITHOUT THIS INFORMATION WILL NOT BE PROCESSED

 FOR PAYMENT.
 FOR PAYMENT.
- WARRANTY/
GUARANTEE:All warranties by manufacturer shall apply. Bidder shall, as part of its proposal,
furnish its warranty/guarantee for all goods/services to be furnished
hereunder. As a minimum, Bidder shall warrant all goods for a period of one
(1) year from date of acceptance. Bidder shall be obligated to repair or
replace all defects in material or workmanship, which are discovered or exist
during said period. All labor, parts and transportation shall be at Bidder's
expense.
- UNCONTEMPLATEDMonroe County reserves the right to request separate bids for such quantitiesPURCHASES:of items on this contract that may be best procured via separate public bid
offering and to otherwise act in furthering its own best interests.
- **SUBCONTRACT:** The Contractor shall not subcontract any work without first obtaining the written consent of the Monroe County Purchasing Manager.
- **<u>RELATED ITEMS:</u>** The County reserves the right to add miscellaneous related items to this contract during the contract term upon agreement by both parties as to the price. Approval must be given in writing by the Purchasing Manager or her Designee.
- **REPORT OF**The Contractor must, upon request, provide the County Purchasing Manager**PURCHASE:**with detailed information showing how much of each item was delivered to any
and all agencies under this contract. This includes deliveries to not only the
County but any other municipality or agency which orders from this contract.

OTHER AGENCIES:The Contractor(s) must honor the prices, terms and conditions of this contract
with political subdivisions or districts located in whole or in part within Monroe
County. In addition, the contractor may, but is not required to, extend the
prices, terms and conditions of this contract to any other political subdivision
or district. Usage of this contract by any of these other political subdivisions or
districts will have to be coordinated between that subdivision or district and the
contractor. Orders placed against this contract between any subdivision or
district will be contracts solely between the Contractor(s) and those entities.
Monroe County will not be responsible for, nor will it have any liability or other
obligation for, such contract between the Contractor(s) and any third party.

INDEMNIFICATION: The Contractor agrees to defend, indemnify and save harmless the County, its officers, agents, servants and employees from and against any and all liability, damages, costs or expenses, causes of action, suits, judgments, losses and claims of every name not described, including attorneys' fees and disbursements, brought against the County which may arise, be sustained or occasioned directly or indirectly by any person, firm or corporation arising out of or resulting from the performance of the services by the Contractor, arising from any act, omission or negligence of the Contractor, its agents and employees or arising from any breach or default by the Contractor under this Agreement. Nothing herein is intended to relieve the County from its own negligence or misfeasance or to assume any such liability for the County by the Contractor.

EQUAL PAY
CERTIFICATION:Prior to the execution of this Agreement, the Contractor shall submit to the
County an Equal Pay Certification ("Certification") affirming the Contractor's
compliance with the Federal Equal Pay Act, 29 USC § 206 and New York
State Labor Law §194, as amended from time to time ("Equal Pay Laws"). As
set forth in the Certification, the Contractor's violation of one or more of the
Equal Pay Laws or its filing of a false or misleading Certification during the
term of this Agreement may constitute grounds for the County in its sole
discretion to immediately terminate the Agreement and for determining the
Contractor to be not qualified to participate in future Monroe County contracts.

Terms & Conditions-Term Contract-Commodity-Single Award.doc (8/03)

BP #0908-21 SODIUM HYPOCHLORITE, LIQUID <u>SPECIFICATION</u>

1.00 **GENERAL:**

1.01 **SCOPE:**

The Monroe County Department of Environmental Services is seeking a qualified bidder to furnish Manufactured **Sodium Hypochlorite, Liquid**.

1.02 **PRODUCT:**

The liquid sodium hypochlorite must contain a minimum of 12.5% by weight of available chlorine per gallon of solution. The sodium hypochlorite must also conform to the American Water Works Association (AWWA) standard B-300-92 or its latest version.

The sodium hypochlorite must meet the following requirements. *Each bidder must submit the specifications on the product that constitutes the makeup of the sodium hypochlorite.*

1.03 ACCEPTABLE IMPURITY LIMITS:

The sodium hypochlorite shall not exceed the following impurity limits:

FE	9.000 ppm
SiO2	30.000 ppm
A12O3	1.000 ppm
CaO	10.000 ppm
MgO	3.000 ppm
Mn	0.200 ppm
Ni	0.500 ppm
Cu	0.200 ppm
Hg	0.001 ppm

1.04 LOCATIONS:

Frank E. VanLare Wastewater Treatment Facility **(FEV)** 1574 Lake Shore Blvd. Rochester, NY 14617 3 sites at this location DEC Registration # 8-000130 Tank #'s FC020, FC023, FC026, FC027 North West Quadrant Wastewater Treatment Facility **(NWQ)** 170 Payne Beach Road Hilton, NY 14468 1 site at this location DEC Registration # 8-000241 Tank #'s NC005, NC006, NC007

Spencerport Pump Station **(SPEN)** 20 Northrup Creek Drive Spencerport, NY 14559 1 site at this location DEC Registration # 8-000459 Tank #'s SC002, SC003

Monroe County reserves the right to add locations, within the County, as the need arises.

1.05 **QUALIFICATIONS OF MANUFACTURER:**

Consideration will be given only to products of manufacturers who can demonstrate that their product and delivery methods comply with these specifications. The technical information submitted by the bidder must address how the proposed product meets these specifications. Consideration will be given only to bidder who can demonstrate that their product, background and technical abilities comply with the specifications. The County shall have the sole responsibility for determining from the information submitted by the bidder if the proposed product meets the specifications. Should the apparent low bidder fail to meet the requirements of the specifications as determined by the County's review, the bid shall be rejected and the next low bid shall be considered. The County may require additional supplementary information during the review process. The bidder's technical specifications must provide sufficient detail to permit an evaluation of the proposed product but shall not be considered as satisfying the requirements for the submission of manuals.

1.06 SUBMITTAL:

For each product bid, the bidder must submit the following with his bid:

- a. Safety Data Sheet(s) (SDS).
- b. Technical guidance and recommended practices (see details below).
- c. A list of current users of the product(s) bid (including contact name and phone).

Any additional supplementary product information must be submitted to Monroe County within two (2) business days, if so requested.

The bidder must comply with all applicable federal, state, and local laws, regulations, rules and standards, including but not limited to OSHA, Code of Federal Regulations, Title 49, the Chlorine Institute, the Compressed Gas Association and the New York State Department of Environmental Conservation 6NYCRR Parts 595, 596 and 597 and must show proof of same.

In compliance with the New York State regulation found in 6NYCRR Parts 595, 596 and 597 relating to chemical bulk storage tanks, manufacturers or distributors of a hazardous substance must provide the owner or operator of the storage tanks with current technical guidance and recommended practices for storage and handling of the chemical. The information must accompany the first shipment of a product to a site. Any subsequent updates or revisions to the information must be sent to the site also. Technical guidance and recommended practices information includes but is not limited to the following:

- Adding regulatory concerns (EPA, FIFRA, TSCA).
- Carcinogenicity status.
- Environmental hazards.
- Container inspection schedule.
- Container materials of construction.
- Unloading precautions.
- Storage tank gauges and components.

1.07 **DELIVERY:**

Average delivery is 4500 gallons. The tank sizes range from 2000 gallons to 12,000 gallons.

Delivery vehicles must be able to access the areas for safe unloading of the product.

All facility traffic control devices must be observed by the delivery personnel.

Prior to unloading the product, delivery personnel must assure that the vehicle brakes are set and the wheels chocked to prevent vehicle movement.

Delivery personnel shall verify that the receiving tank has the available capacity to receive the volume of product to be transferred.

During the entire period of transfer, and while the tank is connected to the unloading device, at least one (1) delivery person must be present monitoring the transfer. Transfer operations must be visually checked to ensure that no leakage is occurring and that a tank overfill does not take place.

Delivery vehicles must be able to supply their own air to adequately offload the product at a pressure no greater than 15 psi.

When uncoupling the delivery device from the tank, proper procedures must be used to ensure spillage does not occur. If spills occur, they must be cleaned up immediately by the delivery personnel at no additional cost to the County.

1.08 INCIDENTS/DAMAGES:

The bidder must supply each facility with a twenty four (24) hour emergency phone number in the event of a sodium hypochlorite incident. The bidder must provide on-site facility assistance and technical expertise within one (1) hour of notification by County personnel, if required.

If an incident is the result of actions by delivery personnel, the bidder must provide for site cleanup and remediation at no additional cost to the County. Spills of five (5) gallons or more of sodium hypochlorite require a written report by the bidder to the County facility representative.

If chemical delivered does not meet specifications and, as a result, causes deterioration to County owned equipment, the bidder will be responsible for replacement of said equipment and the labor costs involved in any repairs.



SAFETY DATA SHEET OLIN CORPORATION

Product name: Sodium Hypochlorite, 17-30%

Issue Date: 04/26/2019 Print Date: 04/26/2019

OLIN CORPORATION encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: Sodium Hypochlorite, 17-30%

Recommended use of the chemical and restrictions on use Identified uses: Disinfectant. Paper bleaching agent Water treatment chemicals Biocidal product Bleaching agents, activators and stabilisers Textile bleaching agent

COMPANY IDENTIFICATION OLIN CORPORATION 190 CARONDELET PLAZA CLAYTON MO 63105 UNITED STATES

Customer Information Number:

+1 844-238-3445 INFO@OLINBC.com

EMERGENCY TELEPHONE NUMBER Local Emergency Contact: 1 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

GHS classification in accordance with 29 CFR 1910.1200 Corrosive to metals - Category 1 Skin corrosion - Category 1B Serious eye damage - Category 1

Label elements Hazard pictograms



Signal word: DANGER!

Hazards

May be corrosive to metals. Causes severe skin burns and eye damage.

Precautionary statements

Prevention Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Storage

Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal

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

Other hazards

Contact with acids liberates toxic gas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Sodium Hypochloride

This product is a substance.

Component	CASRN	Concentration
Water	7732-18-5	>= 65.5 - <= 82.9 %
Sodium hypochlorite	7681-52-9	>= 17.0 - <= 30.0 %
Sodium hydroxide	1310-73-2	>= 0.1 - < 4.5 %

4. FIRST AID MEASURES

Description of first aid measures General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse. Suitable emergency safety shower facility should be immediately available.

Eye contact: - Wash eyes with plenty of water for 15 minutes at least. Do not forget to remove contact lenses. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Repeated excessive exposure may aggravate preexisting lung disease.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: In case of fire, use water fog, foam, dry powder, carbon dioxide.

Unsuitable extinguishing media: Do NOT use water jet. May spread fire. Dry chemical extinguishing agents may react with product; use with caution.

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Unusual Fire and Explosion Hazards: No data available

Advice for firefighters

Fire Fighting Procedures: For safety reasons in case of fire, containers should be stored separately in closed containments. Do not breathe fumes.

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Wear suitable protective equipment. Avoid breathing vapor. Avoid all contact. Keep people away from and upwind of spill/leak. Ventilate area of leak or spill. Wear suitable protective clothing. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Do not discharge directly to a water source. See Section 13, Disposal Considerations, for additional information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Large spills: Absorb with materials such as: Vermiculite. Cover with absorbent or contain. Collect and dispose. Dike and transfer to suitable and properly labeled containers. This material is corrosive. See SECTION 8, Exposure Controls/Personal Protection, prior to handling.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep container closed. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use with adequate ventilation. Use good general industrial hygiene practices for handling. Wash thoroughly after handling. Protect from direct exposure to sunlight.

Conditions for safe storage: Keep container tightly closed. Store away from incompatible materials. See STABILITY AND REACTIVITY section. Store under cover in a dry, clean, cool, well ventilated place away from sunlight. Store away from oxidizing materials. Store in original vented container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Sodium hypochlorite	US WEEL	STEL	2 mg/m3
Sodium hydroxide	ACGIH	С	2 mg/m3
	OSHA Z-1	TWA	2 mg/m3
	OSHA P0	С	2 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate

("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. Fire resistant clothing treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Particulate filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	liquid
Color	Yellow or yellow-green
Odor	pungent
Odor Threshold	No data available
рН	12
Melting point/range	-27.22 °C (-17.00 °F) Literature
Freezing point	-27.22 °C (-17.00 °F) Measured
Boiling point (760 mmHg)	No data available
Flash point	Not applicable
Evaporation Rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not expected to form explosive dust-air mixtures.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	12 mmHg
Relative Vapor Density (air = 1)	Not available
Relative Density (water = 1)	1.187 - 1.333 at 20 °C (68 °F)
Water solubility	completely miscible
Partition coefficient: n- octanol/water	No data available

Auto-ignition temperature Decomposition temperature Kinematic Viscosity Explosive properties Oxidizing properties Molecular weight

Not applicable No data available No data available No test data available No data available Not applicable No information available. Not applicable 74.5 g/mol

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: Polymerization will not occur. Stable under recommended storage conditions.

Conditions to avoid: contact with incompatible materials Avoid direct sunlight or ultraviolet sources. Excessive heat. contact between acids and chlorates, a component of this product mixture, can cause the generation of chlorine gas.

Incompatible materials: No data available

Hazardous decomposition products: Oxygen

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity

Very low toxicity if swallowed. Swallowing may result in burns of the mouth and throat. Swallowing may result in gastrointestinal irritation or ulceration. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea.

LD50, Rat, > 5,000 mg/kg

Acute dermal toxicity Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, Rabbit, > 5,000 mg/kg

Acute inhalation toxicity

Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.

LC50, Rat, dust/mist, > 10.5 mg/l

Skin corrosion/irritation

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Prolonged contact may cause severe skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization: No relevant data found,

Specific Target Organ Systemic Toxicity (Single Exposure)

Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Repeated exposures to dusts of this material are not anticipated to result in systemic toxicity or permanent lung injury; however, excessive exposures may cause less severe respiratory effects.

Carcinogenicity

Did not cause cancer in laboratory animals.

Teratogenicity

For similar material(s): Has been toxic to the fetus in laboratory animal tests.

Reproductive toxicity

For similar material(s): In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

Mutagenicity

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were predominantly negative.

Aspiration Hazard

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, Pimephales promelas (fathead minnow), 96 Hour, 0.22 - 0.62 mg/l, Method Not Specified.

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, 0.035 mg/l, OECD Test Guideline 202

Toxicity to bacteria EC50, activated sludge, 28.7 mg/l

Long-term (chronic) aquatic hazard Chronic toxicity to fish NOEC, Menidia peninsulae (tidewater silverside), flow-through test, 28 d, 0.04 mg/l

Persistence and degradability

Biodegradability: Biodegradation is not applicable.

Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partitioning from water to n-octanol is not applicable.

Mobility in soil

No relevant data found.

13. DISPOSAL CONSIDERATIONS

Disposal methods: AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Hypochlorite solutions
UN number	UN 1791
Class	8
Packing group	1
Marine pollutant	Sodium hypochlorite
Reportable Quantity	Sodium hypochlorite, Sodium hydroxide

Classification for SEA transport (IMO-IMDG):

Proper shipping	name
UN number	
Class	

HYPOCHLORITE SOLUTION UN 1791 8

Issue Date: 04/26/2019

Packing group
Marine pollutant
Transport in bulk
according to Annex I or II
of MARPOL 73/78 and the
IBC or IGC Code

II Sodium hypochlorite Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Proper shipping name	Hypochlorite solution
UN number	UN 1791
Class	8
Packing group	IF

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transportation of the material.

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 Corrosive to metals Skin corrosion or irritation Serious eye damage or eye irritation

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 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.

Pennsylvania Right To Know

The following chemicals are listed because of the additional requirements of Pennsylvania law:

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

California Prop. 65

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Product Literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Hazard Rating System

NFPA

Health	Flammability	Instability	
3	0	0	

Revision

Identification Number: 010000001224 / A619 / Issue Date: 04/26/2019 / Version: 2.1 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
С	Ceiling limit
OSHA P0	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
STEL	Short-Term TWA
TWA	8-hour time weighted average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -

Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

OLIN CORPORATION urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version. US

Olin[™]

SALES SPECIFICATION *Sodium Hypochlorite Solution*

- 1 - 4

Characteristics	Units	Min	Max
12.5% - Sodium Hypochlorite, NaOCl	wt%	12.5	15.6
14.0% - Sodium Hypochlorite, NaOCI	wt%	14.0	15.6
High Strength – Sodium Hypochlorite, NaOCl	wt%	15.5	19.3
Total Alkalinity	wt%	0.1	1.5

Olin may accommodate other customer needs upon request, including:

EPA	Pesticide	Registration
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NSF/ANSI Standard 60 Certification

ANSI/AWWA B300-10

Kosher Certification

Halal Compliant

ISO 9001 Certification

For more information, contact your Olin Representative, visit <u>www.olinchloralkali.com</u>, or call 423.336.4850.

Olin Document Information						
Specification No:	Revision:	Issue Date:	Supersedes:	Review Date:	Sheet No.:	Form No.:
NaOCI-S2	2	04/18/2017	12/28/2016	04/18/2022	1 of 1	102-00523

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BP #0908-21 SODIUM HYPOCHLORITE, LIQUID

UNIT PRICE SHEET

DESCRIPTION

UNIT PRICE \$

SODIUM HYPOCHLORITE, LIQUID

\$2.45/GALLON

COMPLIANCE WITH FEDERAL SINGLE AUDIT ACT

In the event the Contractor is a recipient through this contract, directly or indirectly of any funds of or from the United States Government, Contractor agrees to comply fully with the terms and requirements of Federal Single Audit Act [Title 31 United States Code, Chapter 75], as amended from time to time. The Contractor shall comply with all requirements stated in Federal Office of Management and Budget Circulars A-102, A-110 and A-133 and such other circulars, interpretations, opinions, rules or regulations that may be issued in connection with the Federal Single Audit Act.

If on a cumulative basis the Contractor expends Seven Hundred Fifty Thousand and no/100 Dollars (\$750,000.00) or more in federal funds in any fiscal year, it shall cause to have a single audit conducted, the Data Collection Form (defined in Federal Office of Management and Budget Circular A-133) shall be submitted to the County; however, if there are findings or questioned costs related to the program that is federally funded by the County, the Contractor shall submit the complete reporting package (defined in Federal Office of Management and Budget Circular A-133) to the County.

If on a cumulative basis the Contractor expends less than Seven Hundred Fifty Thousand and no/100 Dollars (\$750,000.00) in federal funds in any fiscal year, it shall retain all documents relating to the federal programs for three (3) years after the close of the Contractor's fiscal year in which any payment was received from such federal programs.

All required documents must be submitted within nine (9) months of the close of the Contractor's fiscal year end to:

Monroe County Internal Audit Unit 304 County Office Building 39 West Main Street Rochester, New York 14614

The Contractor shall, upon request of the County, provide the County such documentation, records, information and data and response to such inquiries as the County may deem necessary or appropriate and shall fully cooperate with internal and/or independent auditors designated by the County and permit such auditors to have access to, examine and copy all records, documents, reports and financial statements as the County deems necessary to assure or monitor payments to the Contractor under this contract.

The County's right of inspection and audit pursuant to this contract shall survive the payment of monies due to Contractor and shall remain in full force and effect for a period of three (3) years after the close of the Contractor's fiscal year in which any funds or payment was received from the County under this contract.

Audit Clauses for Purchasing 002.doc