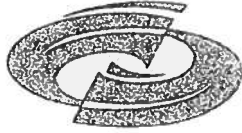


Liquid Sodium Hypo

Odyssey Manufacturing



ODYSSEY
MANUFACTURING CO.

July 8, 2020

Mr. Colby Cilento
City Clerk
City of Ormond Beach
22 South Beach Street
Ormond Beach, FL 32175

Re: **CITY OF ORMOND BEACH: WATER AND WASTEWATER CHEMICAL PURCHASES 2020 (BID NO. 2020-24)**

- Encl:
- (1) Invitation to Bid Form (Page 1 from Bid Package)
 - (2) Bid Forms (Pages 38 – 40 from Bid Package)
 - (3) Conflict Form (Page 41 from Bid Package)
 - (4) Drug Free Workplace Form (Page 42 from Bid Package)
 - (5) Bid Bond (Page 45 from Bid Package)
 - (6) Addendum No. 1 Acknowledgement
 - (7) Authority to Sign Letter
 - (8) Affidavit of Compliance for the Sodium Hypochlorite
 - (9) References
 - (10) Third Party Laboratory Analysis of Sodium Hypochlorite
 - (11) Copy of NSF-60 Certification
 - (12) Safety Data Sheet

Dear Mr. Cilento,

Odyssey Manufacturing Company is pleased to submit our proposal for the above referenced bid for the sodium hypochlorite supply. In accordance with your instructions, we have enclosed one original and one electronic copy of the "Bid Forms" and all other requested documentation. This Bid is offered under the terms and conditions outlined in the City of Ormond Beach's Bid No. 2020-24 for Water and Wastewater Chemicals to the Utilities Department.

The following requested information is provided to assist in your Bid Evaluation:

- Enclosures (1) – (6) are the required Ormond Beach forms filled out.
- Enclosure (7) is an Authority to Sign Letter
- Enclosure (8) is an Affidavit of Compliance for the Sodium Hypochlorite
- Enclosure (9) are references of some of Odyssey's water and wastewater customers.
- Enclosure (10) is the required Third-Party Analysis of Odyssey Sodium Hypochlorite Sample Performed on 6/1/20 by NovaChem Laboratories who is referenced in the addendum as an approved sodium hypochlorite testing facility. Novachem is a NELAC certified laboratory and specializes in only sodium hypochlorite testing.
- The City of Ormond Beach currently uses Odyssey Manufacturing Co. and thus you can pull samples at any of your water or wastewater treatment facilities.
- We will use no subcontractors or affiliates in the performance of any work under this proposal.

- Odyssey Manufacturing has no “Terminations” or “Debarments” as defined in your Solicitation in the past five years (or ever) for any chemical that it sells.
- Odyssey Manufacturing has no “Safety Incidents” as defined in your Solicitation in the past five years for any chemical that it sells.
- Odyssey will provide 24/7 support to the City of Ormond Beach Bay in the event of a spill or other emergency. Our main facility and headquarters are located in Tampa. We also have two other manufacturing facilities in Florida (Orlando and Miami) available to us and three distribution terminals in Florida where we get railcar of hypochlorite delivered from Olin Chemical. Technical Support and also emergency points of contact would be our Patrick H. Allman, General Manager (cellular 813-335-3444) who has a B.S. in Nuclear Engineering 1983 from the University of Virginia, Marvin Rakes, President (813-340-3675) who has a B.S. in Chemical Engineering 1985 from the University of North Carolina State or the on-duty Plant Supervisor (800-ODYSSEY). Mr. Allman has personally designed and installed over 2,000 chemical feed systems in water and wastewater treatment plants in Florida. Mr. Rakes has over thirty years of operational management experience in the chemical distribution business with a large variety of chemicals.
- NSF-60 Certification Documentation Attached (see Enclosure (11))
- Safety Data Sheet (SDS) is Attached (see Enclosure (12))
- Odyssey Manufacturing Co. is a Drug Free Workplace and has an active program in-place to randomly test its employees
- Odyssey sets the standard for emergency response and has never missed a delivery to its customers and provides emergency response on hundreds of occasion. Odyssey has five sodium hypochlorite manufacturing, storage and distribution terminals around Florida all of which store over 1,000,000 gallons.

Over the past twenty two years of business, Odyssey Manufacturing Co. has provided superior service to the water and wastewater industry and to the City of Ormond Beach in the past including never missing a delivery, providing emergency support on several occasions and providing a significant amount of technical assistance. As you know, we are the only chemical manufacturer/distributor that is open for manufacturing and deliveries 24 hours per day and 7 days per week (including holidays) and can be reached @800-ODYSSEY or facsimile (813) 630-2589. Please call me if you have any questions at 1-800-ODYSSEY or cellular (813) 335-3444 or visit our website @www.odysseymanufacturing.com. Thank you for your consideration.

Sincerely,



Patrick H. Allman
General Manager



City of Ormond Beach

22 South Beach Street
Ormond Beach, Florida 32174
Telephone (386) 676-3223
Fax (386) 676-3374

INVITATION TO BID BIDDER ACKNOWLEDGEMENT FORM

THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID

BID TITLE: Water and Wastewater Chemical Purchases 2020
BID NUMBER: 2020-24
BID OPENING DATE & TIME: July 14, 2020 at 2:00 PM
BID OPENING LOCATION: 1st Floor Training Room, Ormond Beach City Hall, 22 S. Beach Street, Ormond Beach, Florida, 32174
PRE-BID MEETING DATE & TIME: N/A
PRE-BID MEETING LOCATION: N/A

Bids Received After The Above Date And Time Will Not Be Accepted.

BIDDER'S NAME: Odyssey Manufacturing Company

BIDDER'S MAILING ADDRESS: 1484 Massaro Blvd.

CITY-STATE-ZIP: Tampa, FL 33619

F.E.I.N.: 65-0846345

PHONE NUMBER: 813/635-0339

EMAIL: pallman@odysseymanufacturing.com

If returning as a "No Bid", please state reason (s): _____

I certify that this Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, or equipment, and is in all respects fair and made without collusion or fraud. I agree to abide by all conditions of this Bid and certify that I am authorized to sign this Bid for the Bidder. In submitting a Bid to the City of Ormond Beach, the Bidder offers and agrees that if the Bid is accepted, the Bidder will convey, assign or transfer to the City of Ormond Beach all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the Antitrust laws of the United States and the State of Florida for price fixing relating to the particular commodities or services purchased or acquired by the City of Ormond Beach. At the City's discretion, such assignment shall be made and become effective at the time the City tenders final payment to the Bidder.

X 

AUTHORIZED SIGNATURE (MANUAL)

Patrick Allman

NAME (TYPED)

General Manager

TITLE

7/7/2020

DATED

City of Ormond Beach
WATER AND WASTEWATER CHEMICAL PURCHASES 2020
Bid No. 2020 – 24

BID RESPONSE FORM

THIS BID IS SUBMITTED TO:
(Name and Address of Owner)

Purchasing Coordinator
City of Ormond Beach
22 S. Beach Street
Ormond Beach, Florida 32174
Phone: (386) 676-3223

The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with the CITY in the form included in the Bid Documents to complete all Work as specified or indicated in the Bid Documents for the Contract Price and within the Contract Time indicated in this Bid and in full accordance with the Bid Documents.

BIDDER certifies that he has investigated the requirements to do business in the jurisdiction where the project is located, and that he is either qualified to do business or will obtain such prequalification prior to award of the contract.

BIDDER accepts all of the terms and conditions of the General Conditions. BIDDER will sign the Agreement (Contract) and submit the Contract security (when applicable) and other documents required by the Contract Documents within ten (10) days after the date of CITY's Notice of Award.

In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:

BIDDER has examined copies of all the Bid Documents and of the following Addenda:

<u>Addendum Date</u>	<u>Addendum Number</u>
<u>7/7/20</u>	<u>1</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

Receipt of all of which is hereby acknowledged.

BIDDER has examined the site and locality where the Work is to be performed, when applicable, the legal requirements (federal, state and local laws, ordinances, rules and regulations) and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as BIDDER deems necessary.

BID RESPONSE FORM
(continued)

This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, Contractor or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, Contractor or a corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for himself any advantage over any other Bidder or over the CITY.

THIS BID IS SUBMITTED BY:

COMPANY NAME: Odyssey Manufacturing Company

VENDOR/CONTRACTOR LICENSE NUMBER: CGCL516698

ADDRESS: 1484 Massaro Blvd.

Tampa, FL. 33619

PHONE NO.: 813/635-0339 FAX NO.: 813/630-2589

SUBMITTER'S NAME: Patrick Allman
(Typed or Printed in Ink)

TITLE: General Manager

AUTHORIZED SIGNATURE: I,  hereby
(Original Signature)

declare that I have read and fully understand the Invitation to Bid, including the General Conditions, Specifications and Drawings (when applicable) and that I am duly authorized to sign and submit this bid.

The CITY reserves the right to reject any and all bids, to waive informalities, and to accept any bid or parts thereof as the CITY, in its sole discretion, determines to be in the best interest of the CITY.

City of Ormond Beach

WATER AND WASTEWATER CHEMICAL PURCHASES 2020

Bid No. 2020 - 24

Bid Form

The undersigned, as bidder, hereby declares that he/she has carefully examined the specifications for the **ANNUAL SUPPLY OF CHEMICALS FOR WATER AND WASTEWATER** and agrees to furnish the same, as specified, in accordance with the terms and conditions of the bid documents. Estimated quantities are for bidding purposes only and do not guarantee the quantities that will be purchased as a result of this bid. **This bid constitutes the offer in its entirety and includes only those exceptions indicated on the Bid Form.** No further changes or exceptions to the terms, conditions, and response to this bid will be offered or accepted. **The undersigned further states that this/these product(s) will be delivered F.O.B. point of use.**

Item No.	User	Chemical Description with approximate range of annual usage	Unit of Measure	Unit Cost
1	W	ANHYDROUS AMMONIA - approx. 20,000 - 25,000 pounds	lb.	no bid
2	WW	BIOLOGICAL LARVICIDE - approx. 2 - 3 pallets with 135 gallons/pallet	pallet	no bid
3	WW	CALCIUM HYPOCHLORITE - approx. 7 - 8 pallets with 1000 gallons/pallet	pallet	no bid
4	W	CAUSTIC SODA - approx. 3 - 4 drums @ 55 gal/drum	drum	no bid
5	W	CORROSION INHIBITOR - approx. 18 - 23 totes	tote	no bid
6	W	HIGH CALCIUM BULK QUICKLIME - approx. 900 - 1,100 tons	ton	no bid
7	W	LIQUID CARBON DIOXIDE - approx. 170,000 - 200,000 pounds	lb.	no bid
8	W&WW	LIQUID SODIUM HYPOCHLORITE - approx. 280,000 gallons - 320,000	gal.	\$.525
9	WW	POLYMER (BIOSOLIDS DEWATERING) - approx. 42 - 48 totes	tote	no bid
10	W	SCALE INHIBITOR - approx. 12 - 14 totes	tote	no bid
11	W	SOLID ANIONIC POLYMER - approx. 4,000 - 5,500 pounds	lb.	no bid

The bid basis for the contract award is the unit price for the individual item. This form must be completed and returned with your bid.

City of Ormond Beach
WATER AND WASTEWATER CHEMICAL PURCHASES 2020
Bid No. 2020 - 24

CONFLICT, NON-CONFLICT OF INTEREST STATEMENT
LITIGATION STATEMENT

-] To the best of our knowledge, the undersigned Contractor has no potential conflicts of interest due to any other clients or contracts for this project.
-] The undersigned Contractor, by attachment to this form, submits information which may be a potential conflict of interest due to other clients or contracts for this project.
-] The undersigned Contractor has had no litigation on any project in the last five (5) years.
-] The undersigned Contractor, by attachment to this form, submits a summary and disposition of individual cases of litigation during the past five (5) years.

Odyssey Manufacturing Company

COMPANY NAME

AUTHORIZED SIGNATURE

Patrick Allman

NAME (PRINT OR TYPE)

General Manager

TITLE

CITY OF ORMOND BEACH
DRUG-FREE WORKPLACE CERTIFICATION

IDENTICAL OR "TIE" BID: Preference shall be given to businesses with drug-free workplace programs. Whenever two or more Bids which are equal in respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a Bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie Bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violation.

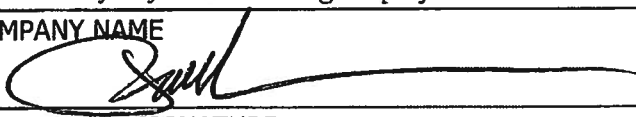
Give each employee that engages in providing the commodities or contractual services that are under proposal a copy of the statement specified in subsection (1).

In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) calendar days after such conviction.

Impose sanctions on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

Odyssey Manufacturing Company

COMPANY NAME


AUTHORIZED SIGNATURE

Patrick Allman

NAME (PRINT OR TYPE)

CITY OF ORMOND BEACH **LOCAL VENDOR PREFERENCE**

The following is taken from the Code of Ordinances, City of Ormond Beach, Chapter 2, Financial Matters, Division 3, Purchasing, Article IX, Section 2-304:

Except where otherwise provided by federal or state law or other funding source restrictions, purchases of goods and services under the Purchasing Code shall give preference to local businesses as follows:

- (a) Under a competitive bid solicitation, the City *may* give a local preference in the amount of three percent (3%) of the bid price or \$25,000, whichever is less. The bid price shall include not only the base bid price but all alternatives which are part of the bid and actually purchased or awarded.
- (b) A *local business* shall mean a vendor that has a valid occupational license issued by the City of Ormond Beach at least one year prior to bid opening, with a physical business address located within the municipal boundaries of the City of Ormond Beach from which the vendor operates or performs business on a day-to-day basis that is a substantial component of the goods or services being offered and has provided a Local Vendor Affidavit of Eligibility at the time the bid is submitted.
- (c) A *Local Vendor Affidavit of Eligibility* shall accompany the bid submittal to be considered valid and shall include, but not be limited to, the following information:
 - (1) A physical business and location address;
 - (2) A copy of current City of Ormond Beach Local Business Tax Receipt (occupational license) to verify the business location;
 - (3) Proof of payment of business tax and real property tax due to the City of Ormond Beach;
 - (4) A copy of the Contractor's most recent annual corporation report to the Florida Division of Corporations;
 - (5) Any additional information necessary to verify local status.
- (d) *Exemptions:* Goods or services provided under a cooperative purchasing agreement, contracts for professional services subject to Consultants' Competitive Negotiation Act, purchases or contracts funded in whole or part by a governmental entity that does not allow local preferences, purchases made under another agency's agreements or contracts (piggybacking), purchases under emergency or sole source situations and procurements subject to formal proposals including but not limited to request for proposals (RFP) or continuing contract, and request for quotes (RFQ) versus straight competitive bids.
- (e) This section shall not be deemed to require the granting of a local preference, and nothing herein prohibits the award of a contract to a non-local vendor where such award is in the public interest.



Local Vendor Affidavit of Eligibility

I certify that my company meets all of the following qualifications to be eligible for the local vendor preference:

- a. My company has a physical business address located within the municipal boundaries of the City of Ormond Beach which is used to perform business on a day-to-day basis.
- b. My company holds any business (occupational) or contractor license required by the City of Ormond Beach at least one year prior to bid opening.
- c. Payment of business tax and real property tax due to the City of Ormond Beach is current
- d. My company is in compliance with annual reporting to the Florida Division of Corporations

Company Name: _____ n/a

Address: _____

Business or Contractor License Number: _____

Phone Number: _____ Fax Number: _____

Owner's Name: _____ Signature: _____

Sworn to before me this _____ day of _____

Notary Public for the State of _____ My Commission Expires _____

Notary Public Signature: _____ Printed Name: _____

To be approved as a local bidder and receive bid preference on an eligible local project, this affidavit of eligibility, a copy of your local business or contractor license, copy of business tax/real property tax and a copy of the Contractor's most recent annual corporation report must be submitted with your bonafide BID package. Bid preference is provided at the City's sole discretion.

VENDOR DO NOT COMPLETE BELOW

To be verified and completed by an authorized representative of the City of Ormond Beach's Purchasing Department:

Vendor Certified by: _____ Date: _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we Odyssey Manufacturing Company

(hereinafter called Principal) and

Travelers Casualty and Surety Company of America
(hereinafter called the Surety) a corporation chartered and existing under the Laws of the State
CT of with its principal offices in the County of
Hartford, CT and authorized to do business in the State of Florida, in the full and just
sum of Five Percent of Amount Bid in U.S.
_____ Dollars (\$ 5%) good and lawful money of the
United States of America, to be paid upon demand of the City of Ormond Beach, Florida, to
which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, and
assigns, jointly and severally and firmly by these presents,

WHEREAS, the Principal is about to submit, or has submitted to the City of Ormond Beach,
Florida, a bid for work to be done on the

WATER AND WASTEWATER CHEMICAL PURCHASES 2020 Bid No. 2020 - 24

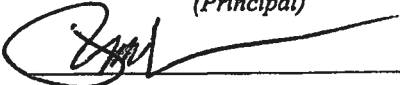
in, and for the City and

WHEREAS, the Principal desires to file this bond in accordance with law, in lieu of a certified or
cashier's check otherwise required to accompany this Bid.


NOW, THEREFORE: the conditions of this obligation are such that if the Bid be accepted the
Principal shall within ten (10) days after the receipt of notification of the acceptance thereof execute a
contract in accordance with the Bid and upon the terms, conditions and unit or lump sum prices set forth
therein, in the form and manner required by the Owner, and execute a sufficient and satisfactory Contract
Bond payable to the Owner, in an amount not less than the total contract price, as indicated by the
approximate quantities shown in the Bid, in form and with security satisfactory to the said City, then this
obligation to be void; otherwise to be and remain in full force and virtue in law; and the Surety shall upon
the failure of the Principal to comply with any or all of the foregoing requirements within the time
specified above, immediately pay to the aforesaid City upon demand the amount hereof in good and lawful
money of the United States of America, not as a penalty, but as liquidated damages.

IN TESTIMONY WHEREOF, the Principal and Surety have caused these presents to be duly
signed and sealed this 13th day July, 2020.


Odyssey Manufacturing Company
(Principal)

By: 

ATTEST:


(SEAL)

Travelers Casualty and Surety Company of America
(Surety)

By: 
David B. Shick, Attorney-in-Fact & Licensed FL
Resident Agent #A241176



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

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

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 3rd day of February, 2017.



State of Connecticut

City of Hartford ss.

By: *Robert L. Raney*
Robert L. Raney, Senior Vice President

On this the 3rd day of February, 2017, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2021



Marie C. Tetreault
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

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

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

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

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

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 13th day of July, 2020



Kevin E. Hughes
Kevin E. Hughes, Assistant Secretary

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

In all other respects, except as specifically stated herein, the subject BID 2020-24 Water and Wastewater Chemical Purchases 2020 remains unchanged.

**THIS ADDEDNDUM MUST BE ACKNOWLEDGED AND
RETURNED WITH YOUR BID**

COMPANY NAME: Odyssey Manufacturing

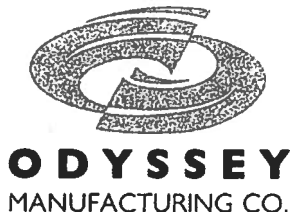
SIGNATURE:  DATE: 7-8-2020

TO ALL BIDDERS: You are requested to make all changes and/or additions contained in this Addendum to the Bidding Documents. Failure to acknowledge this Addendum in Proposal may result in rejection of bid.

The foregoing changes are hereby incorporated into the Bidding Contract Documents for CITY OF ORMOND BEACH– BID 2020-24 Water and Wastewater Chemical Purchases 2020, for the City of Ormond Beach.

City of Ormond Beach, Florida

END OF ADDENDUM NO. 1



December 11, 2019

Re: **CORPORATE RESOLUTION FOR AUTHORITY TO SIGN BIDS, BID FORMS,
CONTRACTS & PERMITS ON BEHALF OF ODYSSEY MANUFACTURING CO.**

To Whom It May Concern,

WHEREAS, the Board of Directors of Odyssey Manufacturing Co. has determined it to be in the best interest of the Corporation to establish a Corporate Resolution. Be it: **RESOLVED**, The undersigned hereby certifies that Patrick H. Allman, its General Manager, is authorized to sign bids and all bid forms; to execute agreements and any documents associated with these agreements; and to sign any permit documents on behalf of Odyssey Manufacturing Co. Additionally, the undersigned is the duly elected and qualified Secretary and the custodian of the books and records and seal of Odyssey Manufacturing Co., a corporation duly formed pursuant to the laws of the state of Delaware and that the foregoing is a true record of a resolution duly adopted at a meeting of the Board of Directors and that said meeting was held in accordance with state law and the Bylaws of the above-named Corporation on March 28, 2019, and that said resolution is now in full force and effect without modification or rescission.

IN WITNESS WHEREOF, I have executed my name as Secretary and have hereunto affixed the corporate seal of the above-named Corporation this 28th day of March, 2019.

Stephen Sidelko, Secretary

CORPORATE SEAL

Marvin T. Rakes, President



ODYSSEY
MANUFACTURING CO.

AFFIDAVIT OF COMPLIANCE FOR

City of Ormond Beach

Water & Wastewater Chemicals Purchases 2020

This is to certify that as required, all sodium hypochlorite to be furnished under this Bid/Proposal will comply with AWWA Standard B300-18 (the most recent standard available at the time of this Bid/Proposal) as such may be amended and also the Specification for this bid. Further, this is to certify that all sodium hypochlorite to be furnished under this Bid/Proposal will comply with NSF Standard 60 and is certified by NSF as such. Further, the sodium hypochlorite supplied under this bid/proposal is in compliance with Water Chemicals Codex directives, latest revision, for impurity limits.

Patrick H. Allman

General Manager

Attest

Secretary



ODYSSEY
MANUFACTURING CO.

Odyssey Manufacturing Co. Sodium Hypochlorite Reference List

- Holly Britt, City of Lake Wales, WTP Supervisor, 863-528-7639
- Bobby Gibbs, Bay County, WTP Superintendent, 850-814-8869
- Lynn Collier, City of Tallahassee, WTP Superintendent, 850-891-1036
- Johnny Lynn, City of Flagler Beach, WWTP Supervisor, 386-517-2029
- Gerry Erb, Bonita Springs Utilities, RO Chief Operator, 239-390-4823
- Jeff Poteet, City of Marco Island, Utilities Director, 239-389-5189
- Steve Kipfinger, Charlotte County, WTP Superintendent, 941-764-4555
- Timothy Sloan, City of Lake Worth, WTP Manager, 561-586-1636
- Fred Greiner, City of Palm Coast, WTP #2 Plant Manager, 386-986-2347
- Fred Hemerick, City of Clearwater, WTP Superintendent, 727-462-6326
- Andy Fenske, City of Cape Coral, Chief Operator, 239-574-0877
- David Hawkins, Sarasota County, Bee Ridge WRF Supt., 941-316-1288
- Andrew Greenbaum, Operations Manager, Tampa Bay Water, 813-929-4551
- John Bullard, City of Delray Beach, WT Plant Manager, 561-243-7317
- Craven Askew, City of St. Petersburg, NE WWTP Supt., 727-893-7779
- Troy Howell, City of Cocoa, WT Plant Superintendent, 407-568-5867
- Phil Hyer, City of Pompano Beach, WTP Superintendent, 954-545-7030
- Barry Stewart, St. Johns County, WTP Superintendent, 904-209-2645
- Gary Framo, Orange County, Western Region WTP Manager, 407-884-5131
- Paul Brown, Orange County, South Region WTP Superintendent, 407-254-9355
- Bill Washington, Pinellas County, South Cross Bayou WRF Superintendent, 727-582-7012
- Al Purvis, City of Leesburg, WTP Superintendent, 352-728-9843
- Ken Enlow, Veolia Water, Tampa Surface Plant, Asst. Project Manager, 813-626-8708
- Dana Mills, Manatee County, NW WWTP Superintendent, 941-792-8811
- Tom Birk, Manatee County, SW WWTP Superintendent, 941-792-8788
- Paul Kavanagh, Hillsborough County, Lake Park WTP Manager, 813-264-3836
- Norrise Shellman, Hillsborough County, Central WTP Manager, 813-626-0342
- Verne Hall, City of Sarasota, Operations Manager, 941-365-2200, Ext. 6230
- Peter Perez, City of Sarasota, WTP Superintendent, 941-955-2325

MANUFACTURERS OF **ULTRA CHLOR** (800) ODYSSEY
THE CLEAR SOLUTION www.odysseymfg.com

1484 MASSARO BLVD • TAMPA, FL 33619 • (813) 635-0339 • FAX (813) 630-2589

NovaChem

Laboratories, Inc

Date: 1 June 2020

Call for results over the phone
513-523-3605

Odyssey Sample Analysis Results Received 19 May 2020

<u>Parameter</u>		
Wt% NaOCl	11.58	
GPL Available Chlorine	128	
Trade %	12.8	
Wt% NaOH	0.399	
Calculated pH	13.1	
Wt% Na ₂ CO ₃	0.105	
Density, g/mL	1.1642	
Bromate ion, mg/L	<5	DL = 5 mg/L
Chlorate ion, mg/L	390	DL = 100 mg/L
Perchlorate ion, mg/L	<5	DL = 5 mg/L
Iron, mg/L	0.10	DL = 0.02 mg/L
Copper, mg/L	<0.02	DL = 0.02 mg/L
Nickel, mg/L	<0.02	DL = 0.02 mg/L
Chloride ion, g/L	101	
Sodium, g/L (estimate)	69	
Wt% Suspended Solids	0.003	
Total Dissolved Solids, g/mL	0.80	
Filter Test (1,000 mL)	1 min 04 sec (Millipore 0.8 uM, type AWWP)	

B.P. Bubnis

B.P. Bubnis

1 June 2020

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Odyssey Manufacturing Company

Facility: Tampa, FL

AS COMPLYING WITH NSF/ANSI 60 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



Product Certification Body
#02216

Certification Program
Accredited by the
American National
Standards Institute



Certification Program
Accredited by the
Standards Council
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in NSF's Official Listings for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

October 4, 2017

Certificate# C0354268 - 01

Theresa Bellish

General Manager, Water Systems



ODYSSEY
MANUFACTURING CO.

SAFETY DATA SHEET

REVISED 1/01/20

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Ultra-CHLOR

Product code(s): 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)

Synonyms: Sodium Hypochlorite Solution, Bleach Solution, Bleach Liquor, Hypo-solution, Bleach, Liquid Bleach

REACH Registration Number: The materials in this product have been registered according to Regulation (EC) 1907/2006.

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

Uses: Cleaner, Disinfectant, Biocide and Sanitizer

Uses Advised Against: None

1.3 Details of the Supplier and of the Safety Data Sheet (SDS)

Odyssey Manufacturing Co.

1484 Massaro Boulevard

Tampa, Florida 33619

+1-813-635-0339 (24 hours)

1.4 Emergency telephone number:

1-800-ODYSSEY (Florida)

1-813-635-0339 (Outside Florida)

1-813-340-9093 (Control Room Cell Phone)

SECTION II - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification REGULATION (EC) No 1272/2008

Skin Corrosiveness: 1B; **Skin Irritant:** 2

Eye Irritant: 2

Aquatic Acute: 1

Description: Clear, greenish-yellow liquid; chlorine-like odor. Irritating to eyes, skin and respiratory system. Can cause burns to all areas contacted.

2.2 Label elements

Labeling Regulation (EC) No 1272/2008

Hazard pictograms



Signal word:

DANGER

Hazard statements:

H314 – Causes severe skin burns and eye damage

H319 – Causes serious eye irritation

H400 – Very toxic to aquatic life

[Prevention]

P260 – Do not breathe dusts or mists.

P264 – Wash hands or any exposed skin areas thoroughly after handling.

P273 – Avoid release to the environment.

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 – Wash contaminated clothing before reuse.
 P304 + 340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310 – Immediately call a POISON CENTER or doctor/physician.
 P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 – If eye irritation persists: Get medical advice/attention.
 P391 – Collect spillage.
- [Storage] P405 – Store locked up.
- [Disposal] P501 – Dispose of container in accordance with local/regional/national/international regulations.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



- Risk phrases: R31 – Contact with acids liberates toxic gas.
 R34 – Causes burns.
 R36/38 – Irritating to eyes and skin.
 R50 – Very toxic to aquatic organisms.
- Safety phrases: S1/2 – Keep locked up and out of the reach of children.
 S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28 – After contact with skin, wash immediately with plenty of soap-suds.
 S37/39 – Wear suitable gloves and eye/face protection.
 S45 – In case of accident or if you feel unwell, seek medical advice immediately (Show the label whenever possible).
 S50 – Do not mix with acids or other incompatible materials (refer to section 10).
 S60 – This material and its container must be disposed of as hazardous waste.

Additional labeling: EUH031 – Contact with acids liberates toxic gas.

SECTION III - COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

Chemical nature: Sodium hypochlorite, aqueous solution

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
10.0 – 16.0	Sodium Hypochlorite	7681-52-9	231-668-3	017-011-00-1	C, R34; R31: N, R50
0.1 – 0.4	Sodium Hydroxide	1310-73-2	215-185-5	011-002-00-6	Xi, 36/38
83.6 - 89.9	Water	7732-18-5	231-791-2		

3.2 Mixtures - Not applicable

SECTION IV - FIRST AID MEASURES

4.1 Description of first aid measures

- Inhalation:** If product vapors or mists cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.
- Eyes:** Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses after the first 5 minutes and continue washing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek prompt medical attention if rash develops.
Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation and burns. Symptoms include redness, pain, itching, burning sensation and tearing. Material is extremely destructive to eyes, mucous membranes and surrounding tissues.

Skin: Causes severe skin irritation and burns. Symptoms include redness, pain, itching and burning sensation. May be harmful if absorbed through the skin.

Inhalation: Vapors and mists may be harmful if inhaled, causing sore throat and cough. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May cause severe gastrointestinal tract irritation with abdominal pain, burning sensation, cough, diarrhea, sore throat and vomiting. May cause burns and irritation to mucous membranes of the mouth and to tissues of the digestive tract.

Chronic: Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and/or respiratory tract irritation leading to frequent attacks of bronchial infection.

SECTION V - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Material does not burn. Use fire extinguishing media appropriate for surrounding materials.

Unsuitable methods of extinction: None listed

5.2 Special hazards arising from the substance or mixture

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to toxic decomposition products may cause a health hazard. Fire may cause the evolution of chlorine, hydrogen chloride gas and chlorine oxides. Symptoms may not be immediately apparent. Obtain immediate medical attention.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

SECTION VI - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors/mists. Avoid contact with skin and eyes. Wear appropriate protective clothing designated in Section 8. Ventilate the area. Evacuate personnel to safe areas.

6.2 Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways. Contain and recover liquid when possible.

6.3 Methods and materials for containment and cleaning up

Cover drains. Cover with a large quantity of inert absorbent (e.g. sand, vermiculite, kitty litter, dry earth). Do not use combustible materials such as saw dust. Collect product using a shovel and place into approved container for proper disposal as hazardous waste. For large spills use water spray to divert vapor drift. Observe possible material restrictions (section 7.2 and 10.5). Clean contaminated area with water. Do not mix with other cleaning agents that may liberate chlorine gas vapors.

US Regulations (CERCLA) require reporting spills and releases to soil water and air in excess of reportable quantities. Reportable quantity (RQ) for hypochlorite solutions is 45.36 kg (100 lbs).

Reportable Quantity (RQ): 100 lbs or 45.36 kg (approximately 100 gal or 378.5 L of Odyssey Ultrachlor 12.5 Trade Percent sodium hypochlorite). In the event of a spill (e.g. defined as any release to the environment), call Odyssey Manufacturing and/or the emergency contact numbers as soon as possible for assistance.

*****For releases higher than the Reportable Quantity (RQ), you must notify the State Emergency Response Commission at (800) 320-0519 AND the National Response Center at (800) 424-8802 or (202) 267-2675 within 15 minutes!!!*****

In the event of a spill, contact either hazardous chemical response company or Odyssey Manufacturing for assistance. Odyssey Manufacturing Co. has a contract with American Compliance Technology, Inc. (ACT) out of Bartow, Florida to perform emergency response and hazardous material and environmental services cleanup for its facilities, its transportation vehicles and its customer's facilities and transportation vehicles. They can be reached at 800-226-0911.

6.4 Reference to other sections

For indications about waste treatment, see section 13.

SECTION VII - HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe label precautions. Avoid contact with skin and eyes. Wear all appropriate protective equipment specified in Section 8. Wash thoroughly after handling. Keep containers closed when not in use. Use proper equipment for listing and transporting all containers.

Advice on protection against fire and explosion

Material is non-flammable and non-combustible.

7.2 Conditions for safe storage, including any incompatibilities

Keep in cool, dry, ventilated storage areas in closed containers. Protect against physical damage. Isolate from incompatible substances. Do not store near acids, heat, oxidizable materials or organics.

Store in a receptacle equipped with a vent. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep locked up and out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECTION VIII - EXPOSURE CONTROLS AND PERSONNEL PROTECTION

8.1 Control parameters

Components	CAS Number	OSHA	ACGIH	AIHA (WEEL)
Sodium Hypochlorite	7681-52-9	2 mg/m ³ TWA; skin	0.5 ppm as CL ₂ TWA; 1 ppm as CL ₂ STEL, A4	2 mg/m ³ STEL
Sodium Hydroxide	1310-73-2	2 mg/m ³ TWA	2 mg/m ³ Ceiling	

8.2 Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. See section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory and at the end of the workday.

Eye/face protection: Wear tightly fitting protective goggles and a face shield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in section 3. Gloves must be inspected prior to use. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Other protective equipment: Wear impervious, protective chemical resistant clothing including boots, gloves, lab coat, apron or coveralls as appropriate to the situation to prevent skin contact.

Respiratory Protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, greenish yellow colored liquid
Odor	Pungent, chlorine-like
Odor Threshold	No data available
Molecular Weight	74.44 (sodium hypochlorite)
Chemical Formula	NaOCl (sodium hypochlorite)
pH	11 – 13
Freezing Point	-13.9° C (7° F)
Initial Boiling Point	100° C (212° F) – lowest known value
Evaporation Rate	<1 (BuAc = 1)
Flammability (solid, gas)	No data available
Flash Point	No data available
Autoignition Temperature	No data available
Decomposition Temperature	110° C (230° F)
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	1.15 – 1.17 g/ml (9.597 – 9.764 lb/gal) @ 60 ° F
Viscosity	No data available
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	No data available
Volatiles by Volume @ 70° F	No data available; decomposes leaving salt solution

9.2 Other data - No data available

SECTION X - STABILITY AND REACTIVITY

10.1 Reactivity

Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition.

10.2 Chemical stability

Stable under recommended storage conditions. Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age.

10.3 Possibility of hazardous reactions

Avoid excessive heat and sources of ignition. Flammable hydrogen may be generated from contact with metals such as: aluminum, brass, tin, zinc and alloys of these metals. Avoid contact with acids, halogenated organics, organic nitro compounds and glycols. Hazardous gases may be generated from contact with acids, ammonium hydroxide (aqua ammonia) or cleaners containing ammonia compounds. Violent reactions may occur with some organic compounds. Sodium hypochlorite reacts readily with various reducing sugars (e.g. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Precautions should be taken including atmospheric monitoring of the tank to ensure safety of personnel. Hazardous polymerization will not occur.

10.4 Conditions to avoid

Light, heat, air and contact with incompatible materials (see section 10.5).

10.5 Incompatible materials

Ammonia, amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, organic materials, oxidizable metals/powdered metals, acids, soaps and bisulfates. Forms shock-sensitive mixtures with certain other materials.

10.6 Hazardous decomposition products

Thermal decomposition products include chlorine gas, hydrogen chloride gas, hydrochloric acid, sodium oxide. Decomposition rate increases with temperature.

SECTION XI - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity (Sodium Hypochlorite)

TDLo - 1gm/ kg oral (woman)

TDLo - 45mg/kg intravenous (man)

LD₅₀ - 5,800 mg/kg (mouse)

LD₅₀ - 140 mg/kg - 9 week(s) continuous oral (rat)

Acute inhalation toxicity

May cause severe bronchial irritation, sore throat with possible blistering, coughing, stomatitis, nausea, labored breathing, shortness of breath and pulmonary edema. 10-20 mg/m³ causes burning of the nose and throat; 40-60 mg/m³ may be fatal. If sufficient amounts are absorbed, may cause effects as detailed in acute ingestion.

Acute dermal toxicity

Extent of damage depends on concentration, pH, and volume of solution and duration of contact. May cause redness, pain, blistering, itchy eczema and chemical burns. Sensitization reactions are possible in previously exposed persons.

Skin irritation

Skin irritation - 24 h (Rabbit)

Eye irritation

Rabbit, Adult – 10 mg, moderate irritation

May cause redness, pain, and blurred vision. Solutions of 5% splashed in human eyes have caused a burning sensation and later only slight superficial disturbance of the corneal epithelium which cleared completely in the next day or two without special treatment. However, one animal study reports a 5% solution causing only moderate irritation with clearing within 7 days. A higher concentration of 15% tested on rabbit eyes caused immediate severe pain, hemorrhages, rapid onset of ground-glass appearance of the corneal epithelium, moderate bluish edema of the whole cornea, chemosis and discharge for several days. Such eyes have sometimes healed in 2-3 weeks with slight or no residual corneal damage but they had neovascularization of the conjunctiva and distortion of the nictitating membrane by scarring.

Sensitization

May cause allergic skin reaction

Genotoxicity in vitro

No data available

Mutagenicity

Mutation in micro organisms – Salmonella typhimurium 1mg / plate (-S9)

DNA repair – Escherichiacoli 20 µg/ disc;

DNA damage – Escherichiacoli 420 µmol/L;

Phage inhibition capacity – Escherichiacoli 103 µg/ well

Micronucleus test - non-mammalian species multiple 200 ppb

Cytogenetic analysis - non-mammalian species multiple 120 µg/ L

Cytogenetic analysis – human lymphocyte 100 ppm 24hour(s)

Sister chromatid exchange – human embryo 149 mg/ L

Cytogenetic analysis – hamster lung 100 mg/ L

Aspiration hazard

No test data available. Risk of serious damage to lungs by aspiration.

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

May cause allergic skin reactions, dermatitis (allergic and contact) and asthma or bronchitis. Sensitization reactions are reported in individuals who are exposed in small amounts through their water supply. High doses have caused sperm abnormality in mice.

Additional information

RTECS: Not available

11.2 Further information

Ingestion: May cause irritation and erosion of the mucous membranes, vomiting (possibly bloody) and abdominal pain and spasms. A drop in blood pressure, shallow respiration, edema (possibly severe) of pharynx, larynx, and glottis, confusion, convulsions, delirium and coma may occur. Cyanosis and circulatory collapse are possible. Esophageal or gastric perforation and strictures are rare. Death may occur, usually due to complications of severe local injury such as toxemia, shock, perforations, hemorrhage, infection and obstruction. Massive ingestions may produce fatal hyperchloremic metabolic acidosis or aspiration pneumonitis.

Further data: Handle in accordance with good industrial hygiene and safety practice.

Chronic Effects

Persons with impaired respiratory function may be more susceptible to the effects of this substance.

Sodium Hypochlorite (hypochlorite salts) is listed by IARC as a Group 3 Carcinogen – Not classifiable as to its carcinogenicity to humans. Sodium Hydroxide is not listed by IARC. None of the components of this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding its mutagenicity and/or teratogenicity of this material, nor is there any available data that indicates it causes adverse developmental and/or fertility effects.

SECTION XII - ECOLOGICAL INFORMATION

12.1 Toxicity Aquatic Ecotoxicity:

This product is very toxic to aquatic organisms.

Aquatic Ecotoxicity:

Acute and prolonged toxicity to fish: LC₅₀ – Pimephales promelas (Fathead minnow) 96 h: 0.22 – 0.62 mg/L
LC₅₀ – Oncorhynchus clarki (Cutthroat trout) 96 h: 0.94 µg/L (mortality)

Acute toxicity to aquatic invertebrates: EC₅₀ – Daphnia magna (Water flea), 96 h: 2.1 mg/L
LC₅₀ – Protozoan phylum (Protozoa), 7 h: 31.6 µg/L

Acute toxicity to aquatic plants: LC₅₀ – Algae, phytoplankton, algal mat (Algae), 96 h: 90 µg/L (mortality)

Acute phytotoxicity, aquatic plants: EC₅₀ – Desmodesmus subspicatus (Green algae), 24 h: 28 mg/L
Biomass reduction – Potamogeton crispus (Curled pond weed), 35h: 23 µg/L

Acute toxicity, miscellaneous aquatic: Chlorophyll Threshold, Aquatic community, 28 d: 2.1 µg/L

12.2 Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential

Partition coefficient, n-octanol in water: Data not available

Bioaccumulation is not expected

12.4 Mobility in soil

Product is mobile in water.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not available as chemical safety assessment was not conducted.

12.6 Other adverse effects

Additional ecological information

This material is a very toxic to aquatic life. Do not allow material to run into surface waters, wastewater or soil.

SECTION XIII - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The generation of waste should be avoided or minimized whenever possible. This material is subject to disposal regulations under U.S. EPA 40 CFR Parts 261 and 262. Container should be disposed of in a safe way as empty containers may contain product residue. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself. Incinerate in an approved facility. Do not incinerate closed container. Dispose of in accordance with the Directive 2008/98/EC as well as other national, federal, state/provincial and local laws and regulations.

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION XIV - TRANSPORT INFORMATION

US DOT (Domestic Ground Transportation)

Proper Shipping Name: Hypochlorite Solutions
Hazard Class: 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
Packing Group: III
NAERG: Guide #154
Packaging Authorizations: Non-Bulk: 49 CFR 173.203; Bulk: 49 CFR 173.241
Packaging Exceptions: 49 CFR 173.154

IMO/IMDG (Water Transportation)

Proper Shipping Name: Hypochlorite Solutions
Hazard Class: 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#: UN1791
Packing Group: III
Marine Pollutant: NO
EMS Number: F-A, S-B

ICAO/IATA (Air Transportation)

Proper Shipping Name: Hypochlorite Solutions
Hazard Class: 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#: UN1791
Packing Group: III
Quantity Limitations: 49 CFR 175.75 - Cargo Aircraft Only: 60L Passenger Aircraft: 5L

RID/ADR (Rail Transportation)

Proper Shipping Name: Hypochlorite Solutions
Hazard Class: 8 (As classified by 49 CFR 173 due to destruction over time of steel and aluminum)
UN/NA#: UN1791
Packing Group: III

Marine Pollutant: Yes (Refer to Refer to 171.4 and 172.322 for further guidance)

Signal Word: DANGER

Hazard Symbols: GHS05, GHS09 (GHS); C, N (EEC)



SECTION XV - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA PSM: Not regulated under OSHA Process Safety Management Standard (PSM) 29 CFR 1910.119

EPA RMP: Not regulated under EPA Risk Management Standard (RMP) 40 CFR Part 68

EPA FIFRA: This product is a registered Pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) 40 CFR Part 150

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

This product not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: This product is subject to the reporting requirements of Section 311/312 of the Emergency Planning and Community Right-to Know Act of 1986.

Acute: Yes **Chronic:** No **Fire:** No **Reactive:** No

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances:

Sodium Hypochlorite (CAS # 7681-52-9), RQ – 45.36 kg (100 lbs)

Sodium Hydroxide (CAS # 1310-73-2), RQ – 453.59 kg (1,000 lbs)

**Special Note: The Reportable Quantity (RQ) of Ultra-CHLOR Solution is approximately 100 gallons*

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depleters.

This product does not contain any Class 2 Ozone depleters.

Clean Water Act (CWA)

Sodium hypochlorite, sodium hydroxide and hypochlorite solutions are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

Sodium hypochlorite (CAS #7681-52-9) is found on the following State Hazardous Substance Inventories and/or Right-to-Know lists: CA, DE, MA, MN, NY, NJ, PA.

Sodium hydroxide (CAS #1310-73-2) is found on the following State Hazardous Substance Inventories and/or Right-to-Know lists: CA, DE, ID, MA, MN, NY, NJ, PA, WA, WI.

Canada

WHMIS Hazard Symbol and Classification:



Class E – Skin Irritant

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the SDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): Sodium hypochlorite and sodium hydroxide are listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the ingredients in this product are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 2

Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
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United States	Toxic Substance Control Act (TSCA)	Yes
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	Yes
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.
 *"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

SECTION XVI - OTHER INFORMATION

Hazardous Material Information System (HMIS)

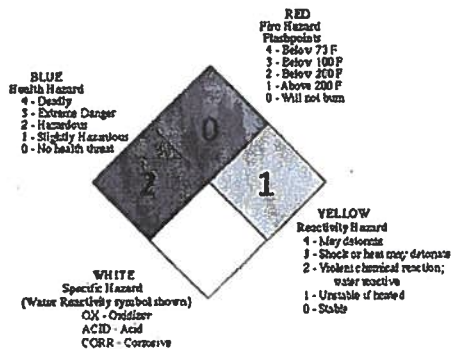
HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	H

HMIS / NFPA Hazard Rating Legend

* = Chronic Health Hazard 2 = MODERATE
 0 = INSIGNIFICANT 3 = HIGH
 1 = SLIGHT 4 = EXTREME



National Fire Protection Association (NFPA)



For additional information, contact our technical service department.

Information contained in this SDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Odyssey Manufacturing in connection with the use of this information.