

NOTICE TO BIDDERS

The City of Donna will receive **SEALED BIDS** addressed to **Utilities Department**, and submitted to the City Secretary's Office located on the 307 South 12th Street, Donna, Texas, 78537 until **3:00 p.m. on September 19, 2024**, for Supply Contract for Purchase of Sodium Chlorite. Any bid received after the closing time will not be accepted and returned to the bidder unopened.

SUPPLY CONTRACT FOR PURCHASE OF Sodium Chlorite Bid No.: 2024-011

Specifications may be obtained from the City of Donna Utilities Department at 114 S 13th St, Donna, TX 78537 or by calling (956) 464-7861, Monday thru Friday between 8:00 am to 5:00 pm. If any questions, please contact Jonas Gonzalez, Utilities Director at (956) 464-7861.

The City of Donna reserves the right to refuse and reject any of all formalities or technicalities or to accept the bid it considers being best and most advantageous to the city, and holding the bids for a period of 30 days without taking action. Bids submitted past the after mentioned date and time will not be accepted.

Bid proposals must be clearly marked on the envelope

CITY OF DONNA

Request for Sealed Bids

The City of Donna hereby requests sealed bids for the following:

Sodium Chlorite

Sealed bids addressed to **Utilities Department**, will be accepted at Donna City Hall, 307 South 12th Street Donna, Texas 78537, until **3:00 p.m.** September 19, 2024 at which time they will be opened and read aloud. Please mark envelope, **“Sealed Bid – WATER/WASTEWATER PLANT CHEMICALS.”**

Potential Bidders/Respondents are advised that the bidding documents can be downloaded from the City of Donna web page address: www.cityofdonna.org, and may also be secured at the Donna City Hall Purchasing Department, 307 South 12th Street Donna, Texas 78537, or by calling (956) 464-6900 ext. 1001. Be advised that if your company is contemplating on bidding this project you must contact the Purchasing Department, so that any changes/additions via addendum form can be forwarded to your company. (Please include your company name, address, telephone, fax, and email as well as contact person).

The City of Donna reserves the right to accept or reject any and all bids and to accept the bid to be the best and most advantageous to the City and to hold bids for a period of forty-five (45) days without taking action. Bids submitted past the aforementioned date and time will not be accepted.

VENDOR'S NOTICE OF INTENT TO SUBMIT A BID

If you intend to submit a bid for **Water Plant Chemicals** with the City of Donna as outlined in the specifications, please indicate your intention by signing, dating, and returning this form to the fax or email below so that you may receive any addendums to the specifications should the need arise.

**City Secretary
City of Donna
307 South 12th St.
Donna, Texas 78537
Phone: (956) 464-6900, ext. 1101
Email: citysecretary@cityofdonna.org**

Name: _____ (print)	Signature: _____
Title: _____	Company/Agency: _____
Mailing Address: _____	City/State/Zip: _____
Phone: _____	Fax: _____
Email address: _____	

City of Donna
Instructions to Bidders – General Terms & Conditions
Water Plant Chemicals

1. The following are minimum specifications intended to govern the purchase of Water Plant Chemicals requested. Please read these specifications carefully and be sure that the chemicals offered comply with all requirements. Prospective respondents are to fill the attached bid form and submit with their bid.
2. Bids addressed to the City of Donna will be received by **3:00 p.m.** September 19, 2024, at **3:00 p.m.** at the Donna City Hall Purchasing Department, 307 South 12th Street Donna, Texas 78537.
3. Bids must be submitted in a sealed envelope upon the blank forms of the bid attached hereto, and marked in the upper left hand corner with the name of the respondent and the words, “**Water Plant Chemicals**”. Each bid must be completely filled out. Bids must be filed with the City of Donna before opening day and hour. No facsimiles or late bids will be accepted. Any RFB received after that time will be returned to respondent unopened (if properly identified). Overnight mail must also be properly labeled on the outside of envelope or package in reference to RFB.
4. Bids MUST give full name and address of respondent, and be manually signed. Failure to do so will disqualify your bid. Person signing the bid must show title and AUTHORITY TO BIND HIS/HER FIRM IN A CONTRACT. Firm name and authorized signature must appear on each page that calls for this information.
5. Bids CANNOT be altered or amended after opening time. Alterations made before opening time must be initialed by bidder guaranteeing authenticity. No bids may be withdrawn after opening time without acceptable reason in writing and only after approval by the City of Donna.
6. The successful respondent will agree to supply materials that meet the specifications outlined in the attached Water Plant Chemicals Specifications Sheet. The successful respondent and the City of Donna will enter into a two (2) year agreement with a one (1) year option to extend, stipulating terms not inconsistent with any provisions stipulated in your bid. In the event that any of the conditions or provisions are not met or service is unsatisfactory, the City of Donna following thirty (30) days written notice may terminate the agreement. **Bids will be analyzed on an ITEM PER ITEM BASIS, NOT on a TOTAL dollar value. The City reserves the right to consider each chemical as a separate bid and award all or individually, whichever may be most advantageous to the City.**
7. STATE SALES TAX MUST NOT BE INCLUDED IN BID. Tax exempt form shall be provided upon request.
8. No substitutions or cancellations permitted without written approval of the City of Donna.

9. Any additions, deletions, or variations from the following specifications must be noted. Anything not specifically mentioned which are necessary for the chemicals to be complete or which is normally furnished as standard shall be furnished by the successful respondent.

Instructions to Bidders Continued
Water Plant Chemicals

10. The Respondent shall attach to his/her Bid sheet a list of any exceptions to the specifications if unable to do so on bid form. Respondents are advised that any part of the specifications that are not met within the time of delivery regardless of how major or how minor it might be shall be grounds for non-acceptance of delivery.
11. Number of days required to deliver **Water Plant Chemicals** after receiving order must be stated in bid. Failure to so state will obligate respondent to complete delivery within **2-3 days**.
12. Quantity subject to change. Quantities shown are approximate and based on previous years records. It is specifically understood that these quantities may be increased or decreased without adjustment to the unit price.
13. Prices quoted shall prevail for a period of two (2) years starting on the date of the bid award. The City reserves the right to extend this contract for one (1) additional year, if the performance of the successful contractor is satisfactory and the unit price(s) remain unchanged.
14. The City of Donna will execute payment by mail in strict accordance with the State of Texas Pay Law after the chemicals have been received and found to meet City of Donna specifications. Any other method of payment must be beneficial to the City.
15. All prices must be F.O.B. Donna, Texas, and include all cost of packaging and delivery. Orders will be placed on an as needed basis. Payment will be made for chemicals provided only. Bid in units of quantity specified extend and show total. In the event of discrepancies in extension, unit prices will govern. Bids subject to unlimited price increase will not be considered.
16. The respondent agrees to indemnify and save harmless the City, the Purchasing Agent, and any assistants from all suits and actions of every nature and discretion brought against him/her or any of them, for or on account of the use of patented appliances, products or processes, and he/she shall pay all royalties and charges which are legal and equitable. Evidence of such payment or satisfaction shall be submitted upon request of the Purchasing Agent, as a necessary requirement in connection with the final estimate for payment in which such patented appliance, products or processes are used.
17. When delay can be foreseen, respondent shall immediately give prior notice to the City of Donna. Respondent must keep the City of Donna advised at all times of status of order. Acceptable reasons for delay delivery are as follows: Acts of God, (floods, tornadoes, hurricanes, etc.), acts of government, fire, strikes, and war. Actions beyond the control of successful respondent.

18. Respondent shall carefully examine the Bid forms, requirements/specifications, and instructions to bidder. Should the respondent find discrepancies in, or omissions from bid forms, specifications, or other documents, or should he/she be in doubt as to their meaning, he/she should at once notify the Purchasing Agent (Donna City Hall, Purchasing Department at 956/464-3314) and obtain clarification by addendum prior to submitting any bid.

Instructions to Bidders Continued
Water Plant Chemicals

19. The City of Donna reserves the right to reject any or all bids and to waive any or all formalities or technicalities and to accept the bid to be the best and most advantageous to the City and to hold bids for a period of forty-five (45) days without taking action. Respondents are required to hold their bids firm for the same period of time. Bids submitted past the aforementioned date and time will not be accepted.
20. Funds for this procurement have been provided through the City budget for this fiscal year only. The City, on an annual basis, has the right to reconsider a contract during the budget process for the ensuing years if financial resources of City are insufficient to meet the liabilities of said contract. The award of a bid or contract hereunder will not be construed to create a debt for the City, which is payable out of funds beyond the current fiscal year.
21. Unless otherwise specified, any catalog or manufacturer's reference or brand name used in describing an item is merely descriptive, and not restrictive, and is used only to indicate type, style or quality of material desired. If a bidder quotes on an article other than the one specified, which he/she considers comparable, the name and grade of said article must be specified in the bid and sufficient specifications and descriptive data must accompany same to permit thorough evaluation. In the absence of these qualifications, he/she will be expected to furnish the article called for.

GENERAL

1. The City of Donna is seeking bids on a service supply contract to provide Water Plant Chemicals to oxidize manganese, disinfect and control trihalomethanes and algae growth in its potable water supply.
2. The city operates one water treatment plant which will require chlorine dioxide treatment. The treatment plant is designed to operate at a maximum treatment capacity of 4.5 MGD.
3. Certificate of Liability insurance with a minimum amount of one million dollars (\$ 1,000,000) is required.

DELIVERY

Successful bidder shall be required to make delivery of Water Plant Chemicals in the following manner:

1. Unit price bid shall include any and all charges to dockside of the city water treatment plant.
2. Price shall include all transportation charges to the water treatment plant. No delay or waiting time will be paid by the city.
3. Delivery shall be made as required upon issuance of a purchase order from proper personnel.

CONTRACT

The supplier will provide all the products and services herein for a period of two (2) years with the option of a one (1) year extension provided that the performance of the successful bidder is satisfactory and the unit price(s) remain unchanged.

1. SPECIFICATIONS FOR SODIUM CHLORITE

Scope of Work: The City of Donna is accepting bids for Sodium Chlorite for the Water Plant.

General Information: The maximum flow at the Water Plant is 4.5 M.G.D. The Average flow is 2.5 - 2.7 MGD.

Specifications: Please read your specifications thoroughly and be sure that the Sodium Chlorite offered complies with all requirements. Any variations from the specifications must be clearly indicated on item specification sheet and covered by letter attached to any changes made on your bid responses.

1. Sodium Chlorite as follows:
 - a. The bidder's Sodium Chlorite must be approved and registered as an NSF Standard 60 product for use in potable water systems.
 - b. Solution shall conform to the following:
 - Molecular Weight: 90.45
 - Molecular Formula: NaC102
 - Specific Gravity (water = 1): 1.20-1.25 @ 25/25 C
 - Density: 10.1 lbs/gal @ 25C
 - Water Solubility: Soluble
 - pH: >12 @ 25 C
 - Volatility: 68-76% by volume
 - Active ingredients as follows:
 1. Active ingredient: 25% (+/-1.0%) NaC102
 2. Inert Ingredients: 75% (+/- 1.0%) H2O
 - Appearance: Pale yellow, slightly hazy liquid
 - c. System Performance Requirements as follows:
 - Chlorite testing monthly licensed laboratories
 - One amprometric titrator
 - d. To include product bulletin and material safety data sheets
 - e.
 - g. Historical annual usage: 8,800 gallons
 - h. To include product bulletin and material safety data sheets.

**CITY OF DONNA
WATER PLANT CHEMICALS
BID FORM**

The _____ (respondent), having read the specifications, proposes to furnish the items, for the full and firm price and within the delivery time designated below, in full compliance with the specifications.

F.O.B. Donna Water Plant, 801 S. Hutto Rd., Donna, Texas 78537.

Respectfully submitted this _____ day of _____, 2024

The undersigned affirms that they are duly authorized to execute this contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other respondent, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the submittal of this bid.

Total Price: Base Bid –Unit price per lb. delivered in loads:

1. SODIUM CHLORITE	\$	<u>88,000</u>	/lb /Year 1
	\$	<u>88,000</u>	/lb. /Year 2

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____

Email: _____

Authorized Signature: _____ Title: _____

Please print above signature

SAFETY DATA SHEET

OxyChem[®]



AKTA KLOR 25

MSDS No.: M47030

Rev. Date: June-24-2010

Rev. Num. 03

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Occidental Chemical Corporation
5005 LBJ Freeway
P.O. Box 809050
Dallas, Tx 75380-9050

24 Hour Emergency Telephone Number: 1-800-733-3665 or 1-972-404-3228 (U.S.); 32.3.575.55.55 (Europe); 1800-033-111 (Australia)

To Request an MSDS: MSDS@oxy.com or 1-972-404-3245

Customer Service: 1-800-752-5151 or 1-972-404-3700

Synonyms: 25% Active Sodium Chlorite Solution

Product Use: AKTA KLOR 25 is a registered antimicrobial pesticide (EPA Registration Number: 21164-6). It has numerous uses in potable water, food plant process water, poultry process water, CIP disinfection, oilfield water, white water paper mill systems, and industrial cooling water.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Color: Pale, yellow
Physical State: Liquid
Appearance: Slightly cloudy
Odor: Slight chlorine odor
Signal Word: **DANGER**

MAJOR HEALTH HAZARDS: CORROSIVE. HARMFUL OR FATAL IF SWALLOWED. TOXIC IF INHALED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE DAMAGE TO RESPIRATORY SYSTEM AND BLOOD.
PHYSICAL HAZARDS: Dried material can ignite upon contact with combustibles.
AQUATIC TOXICITY: Harmful to aquatic life.

2. HAZARDS IDENTIFICATION

PRECAUTIONARY STATEMENTS: Wash thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. Do not eat, drink or smoke when using this product. Do not breathe mist, vapours, or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Keep container tightly closed. Store in a secure manner. Always package, store, transport and dispose of all waste and contaminated equipment in accordance with all applicable federal, state, and local health and environmental regulations. Do not contaminate with acids, reducing agents, combustible materials, oxidizing materials, hypochlorite, organic solvents and compounds, garbage, dirt, organic matter, household products, chemicals, soap products, paint products, vinegar, beverages, oils, pine oil, dirty rags, sulfur-containing rubber, or any other foreign matter.

POTENTIAL HEALTH EFFECTS:

Inhalation: May cause irritation (possibly severe), burns, difficulty breathing, headache, dizziness, pulmonary edema.

Skin contact: May cause irritation (possibly severe) and chemical burns.

Eye contact: May cause irritation (possibly severe), chemical burns, swelling of the eye and blurred vision, and blindness.

Ingestion: Harmful or fatal if swallowed. May cause irritation (possibly severe) and chemical burns.

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percentage	CAS Number
Sodium chlorite	24.2 - 25.8	7758-19-2
Sodium chloride	1 - 5	7647-14-5
Water	68 - 76	7732-18-5

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation and/or Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

SKIN CONTACT: Remove contaminated clothing, jewelry, and shoes immediately. Immediately flush contaminated areas with water. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

EYE CONTACT: Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

4. FIRST AID MEASURES

INGESTION: Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.

Notes to Physician: Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, monitor patient closely for delayed development of pulmonary edema which may occur up to 48-72 hours post-inhalation. Following ingestion, neutralization and use of activated charcoal is not indicated. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Fire Hazard: Negligible fire hazard. Avoid evaporation to dryness. Dried material can ignite upon contact with combustibles. This product may represent an explosion hazard if it contacts acids, chlorine, or organic materials (Refer to Section 10).

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

Fire Fighting: Wear NIOSH approved positive-pressure self-contained breathing apparatus. Consider evacuation of personnel located downwind. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Flood with fine water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Flash point: Not applicable

Hazardous Combustion Products: Chlorine, Oxides of sodium

6. ACCIDENTAL RELEASE MEASURES

Occupational Release:

Keep unnecessary people away, isolate hazard area and deny entry. Contain spill. Spill materials may be absorbed using nonflammable commercial absorbents. Dampen and scoop spilled material into clean, dedicated equipment. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. Keep collected material damp and put into drums. Dispose promptly. Dried material can ignite upon contact with combustibles. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

7. HANDLING AND STORAGE

Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container properly labeled and tightly closed. Store in a cool, dry area. Store in a well-ventilated area. Store below 212 F (100 C). Avoid exposure to sunlight or ultraviolet light. Keep separated from incompatible substances (see Section 10 of the Safety Data Sheet).

7. HANDLING AND STORAGE

Handling Procedures: Do not taste or swallow. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mist when opening container. Avoid creation of vapor or mist. Wash thoroughly after handling. Use clean utensils. Do not add the product to any dispensing device containing residuals of other products. Contamination may start a chemical reaction with generation of heat, liberation of hazardous gases (chlorine dioxide a poisonous, explosive gas), and possible fire and explosion. Do not contaminate with acids, reducing agents, combustible materials, oxidizing materials, hypochlorite, organic solvents and compounds, garbage, dirt, organic matter, household products, chemicals, soap products, paint products, vinegar, beverages, oils, pine oil, dirty rags, sulfur-containing rubber, or any other foreign matter. Dried material can ignite upon contact with combustibles.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure limit(s): No occupational exposure limits have been established at this time

Recommended Exposure Limit: 1 mg/m³ recommended Time Weighted Average 8 hour (internal Occupational Exposure Limit). This value is based on potential systemic effects from inhalation of sodium chlorite dust.

ENGINEERING CONTROLS: Use only in well-ventilated areas. Provide local exhaust ventilation where vapors, mist or aerosols may be generated.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear chemical safety goggles. Where splashing or spraying is possible, use a faceshield in addition to chemical protective goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact. Contaminated clothing should be removed and laundered before reuse. Discard contaminated leather goods.

Hand Protection: Wear appropriate chemical resistant gloves

Protective Material Types: Neoprene

Respiratory Protection: A NIOSH approved full-face respirator equipped with N95 (dust, fume, mist) cartridges may be permissible when symptoms have been observed that are indicative of overexposure. If chlorine or chlorine dioxide is present, an acid gas cartridge is also required. An approved self-contained breathing apparatus operated in the pressure demand mode or an airline respirator with escape pack is required when an air purifying respirator is not adequate or for spills / emergencies of unknown concentrations. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Slightly cloudy
Color:	Pale, yellow
Odor:	Slight chlorine odor
Odor Threshold:	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight:	90.45
Molecular Formula:	NaClO ₂
Boiling Point/Range:	No data available
Freezing Point/Range:	No data available
Vapor Pressure:	No data available
Specific Gravity (water=1):	1.20 to 1.25 @ 25 C
Vapor Density (air=1):	No data available
Density:	10.1 lbs/gal @ 25 C
Water Solubility:	Soluble
pH:	>12 @ 25 C
Volatility:	68-76% by volume
Evaporation Rate (ether=1):	No data available
Partition Coefficient (n-octanol/water):	No data available

10. STABILITY AND REACTIVITY

Reactivity/ Stability: Stable at normal temperatures and pressures.

Conditions to Avoid: Avoid heat, flames, sparks and other sources of ignition. Avoid evaporation to dryness. Dried material can ignite upon contact with combustibles. Avoid contamination with foreign materials. Avoid exposure to sunlight or ultraviolet light.

Incompatibilities/ Materials to Avoid: Acids, Reducing agents, Combustible material, Oxidizing agents, Hypochlorite, Organic solvents and compounds, Garbage, Dirt, Organic materials, Household products, Chemicals, Soap products, Paint products, Vinegar, Beverages, Oils, Pine oil, Dirty rags, Sulfur-containing rubber, or any other foreign matter

Hazardous Decomposition Products: Chlorine dioxide is formed on contact with acids. Thermal decomposition products include chlorine and oxides of sodium.

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

LD50 Oral:	389 - 1800 mg/kg (Rat)
LC50 Inhalation:	0.29 mg/L (4 hr-Rat)
LD50 Dermal:	> 2 gm/kg skin-rabbit

ACUTE TOXICITY:

Mist or spray may cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes. In some cases, pulmonary edema may develop. Skin contact may cause severe irritation, pain, and possibly burns. Direct eye contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness. Ingesting the material may cause immediate pain and severe burns of the mucous membranes. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on the esophagus and gastrointestinal tract may range from irritation to severe corrosion to death. Edema of the epiglottis and shock may occur.

CHRONIC TOXICITY:

Sodium chlorite has produced hemolytic anemia in several animal species at concentrations of 100 mg/L or higher. In a sub-chronic study using rats, hematological alterations included decreased erythrocyte counts, hemoglobin levels, and hemacrit. Methemoglobin levels decreased in females, but increased in males. There is no evidence of kidney effects in humans; however, in animal studies with sodium chlorite, there is limited evidence of kidney effects.

CARCINOGENICITY: This product is not classified as a carcinogen by NTP, IARC or OSHA.

MUTAGENIC DATA: Sodium chlorite has tested positive in some studies. The significance of these test results for human health is unclear because the oxidizing effects of the chlorite or salting effects of sodium may significantly affect the ability of the tests to accurately detect mutagens.

REPRODUCTIVE TOXICITY: There is limited evidence of male reproductive effects in animal studies.

DEVELOPMENTAL TOXICITY: Observations in animal studies include decreased serum levels of thyroid hormones in offspring.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:**Aquatic Toxicity:**

- LC50 rainbow trout = 290 mg/l as 80% NaClO₂ (96 hour)

LC50 bluegill = 265-310 mg/l as 80% NaClO₂ (96 hour)

LC50 Sheepshead minnow = 62-90 ppm (96 hour)

Invertebrate Toxicity:

- LC50 Daphnia Magna = 0.29 mg/L as 80% NaClO₂ (48 hour)

Other Toxicity:

- LD50 Mallard duck = 0.49-1.00g/kg as 80% NaClO₂ (gavage)

LD50 Bob White quail = 0.039 - 0.66 g/kg as 80% NaClO₂ (gavage)

Sodium chlorite in the diet of birds was not acutely toxic. Eight-day dietary LC50's in the Mallard duck and Bob White quail were > 5,000 ppm

FATE AND TRANSPORT:

BIODEGRADATION: Chlorite ions are reduced by some bacteria under anaerobic conditions.

PERSISTENCE: This material will eventually degrade to sodium chloride.

BIOCONCENTRATION: This material will not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

WASTE FROM MATERIAL:

Reuse or recycle if possible. Dispose in accordance with all applicable regulations. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction and fire. Contact Customer Service to obtain neutralization instructions. Keep out of water supplies and sewers. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous Waste Number(s): D001, D003.

CONTAMINATED PACKAGING:

Container management: Containers are nonrefillable. Do not reuse or refill containers. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse or pressure rinse container promptly after emptying.

- Triple rinse containers 5-gallons or smaller as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.
- Triple rinse containers larger than 5 gallons as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.
- Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse about 40 PSI for at least 30 seconds. Drain for 10 seconds, after the flow begins to drip.

14. TRANSPORT INFORMATION

U.S.DOT 49 CFR 172.101:

PROPER SHIPPING NAME:	Chlorite solution
UN NUMBER:	UN1908
HAZARD CLASS/ DIVISION:	8
PACKING GROUP:	II
LABELING REQUIREMENTS:	8

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

SHIPPING NAME:	Chlorite solution
UN NUMBER:	UN1908
CLASS OR DIVISION:	8
PACKING/RISK GROUP:	II

15. REGULATORY INFORMATION

U.S. REGULATIONS

AKTA KLOR 25

MSDS No.: M47030

Rev. Date: June-24-2010

Rev. Num. 03

15. REGULATORY INFORMATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) (US)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

EPCRA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.21):
Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119): Not regulated

FIFRA REGULATIONS: Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). EPA Reg. No. 21164-6 (Akta Klor 25)

NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt

TSCA 12(b): This product is not subject to export notification

Canadian Chemical Inventory: All components are listed

STATE REGULATIONS

Sodium chlorite	
California Proposition 65 Cancer WARNING:	Not Listed
Massachusetts Right to Know Hazardous Substance List	Listed
New Jersey Right to Know Hazardous Substance List	Listed
New Jersey Special Health Hazards Substance List	corrosive; reactive - second degree
New Jersey - Environmental Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substance List	Listed
Pennsylvania Right to Know Special Hazardous Substances	Not Listed
Pennsylvania Right to Know Environmental Hazard List	Not Listed
Rhode Island Right to Know Hazardous Substance List	Listed
Sodium chloride	
California Proposition 65 Cancer WARNING:	Not Listed
Massachusetts Right to Know Hazardous Substance List	Not Listed
New Jersey Right to Know Hazardous Substance List	Not Listed
New Jersey Special Health Hazards Substance List	Not Listed
New Jersey - Environmental Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substance List	Not Listed
Pennsylvania Right to Know Special Hazardous Substances	Not Listed
Pennsylvania Right to Know Environmental Hazard List	Not Listed
Rhode Island Right to Know Hazardous Substance List	Not Listed

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

AKTA KLOR 25

MSDS No.: M47030

Rev. Date: June-24-2010

Rev. Num. 03

WHMIS Classification: D1A, D1B, E

16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Health Risk Management

HMIS: (SCALE 0-4) (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

Health: 3	Flammability: 0	Reactivity: 1
NFPA 704 - Hazard Identification Ratings (SCALE 0-4)		
Health: 3	Flammability: 0	Reactivity: 1

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.