

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 18, 2020**, 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.: 2020-007

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 18, 2020 at which time they will be opened and read aloud. Please mark envelope, **“Sealed Bid – WATER 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.

Belinda Tosca
City Secretary
City of Donna
307 South 12th St.
Donna, Texas 78537
Phone: (956) 464-6900, ext. 1101
Email: btosca@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 18, 2020**, 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. The bidder shall furnish all equipment, material and labor necessary to install and maintain one chlorine dioxide generator and components.
4. 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.
4. The usual delivery quantity will be 600 gallons, maximum 1,500 gallons.

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

**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 _____, 2020

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

\$ 88,000 /lb /Year 1

\$ 88,000 /lb. /Year 2

Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____

Email: _____

Authorized Signature: _____ Title: _____

Please print above signature



Basic Chemicals



Sales Specification

Sodium Chlorite (NaClO_2)

AktaKlor 25 (25% Active Sodium Chlorite)

COMPONENT

Sodium Chlorite, wt% as NaClO_2
Sodium Chlorate, wt% as NaClO_3
Sodium Chloride, wt% as NaCl
Total Alkalinity, wt% as NaOH @ pH4
Hydrogen Peroxide, wt% as H_2O_2
Water (by difference), wt%

SPECIFICATIONS

24.25 - 25.75
0.5 max.
3.0 max.
0.5 max.
0.01 max.
68 - 76

TYPICAL PROPERTIES

Appearance	Clear, slightly yellow liquid
Turbidity, NTU	10 max
Density, lb/gal @ 25°C	10.2

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis. Product meeting the specification test items will exhibit the listed typical properties.

NSF Listed, ANSI/NSF Standard 60 (Wichita, KS/Fairmont City, IL)
Meets requirements of ANSI/AWWA B303-10

EPA Reg. No: 21164-6

CONTAINERS:

Tank Trucks (stainless steel) - 3400 gallon
Drums - 55 Gallon Plastic Drums, 565 lbs net
OCC non-returnable 330 gallon tote with steel box and plastic bottle
Customer provided returnable totes

Form#: 644 05/2011



Occidental Chemical Corporation
A subsidiary of Occidental Petroleum Corporation

Basic Chemicals Group
Occidental Tower
5005 LBJ Freeway
Dallas, TX 75244
800-752-5151

Important: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws.



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Thursday, June 11, 2015** at 12:15 a.m. Eastern Time. Please [contact NSF International](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information: <http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Occidental&ChemicalName=Sodium+Chlorite&>

NSF/ANSI 60 Drinking Water Treatment Chemicals - Health Effects

Occidental Chemical Corporation

Oxy Tower
5005 LBJ Freeway
Dallas, TX 75244-6119
United States
972-404-3918

Facility : Fairmont City, IL

Sodium Chlorite[CL]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
31% Active Sodium Chlorite Solution	Disinfection & Oxidation	22mg/L
Akta Klor 15	Disinfection & Oxidation	35mg/L
Akta Klor 25	Disinfection & Oxidation	22mg/L
Akta Klor 37	Disinfection & Oxidation	14mg/L
Akta Klor 7.5	Disinfection & Oxidation	87mg/L
Technical Sodium Chlorite	Disinfection & Oxidation	7mg/L
Technical Sodium Chlorite Solution 18.75	Disinfection & Oxidation	35mg/L
Technical Sodium Chlorite Solution 31.25	Disinfection & Oxidation	22mg/L
Technical Sodium Chlorite Solution 50	Disinfection & Oxidation	14mg/L

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

Facility : Wichita, KS

Sodium Chlorite[CL]

Trade Designation	Product Function	Max Use
31% Active Sodium Chlorite Solution	Disinfection & Oxidation	22mg/L
Akta Klor 25	Disinfection & Oxidation	22mg/L
Akta Klor 7.5	Disinfection & Oxidation	87mg/L
Technical Sodium Chlorite	Disinfection & Oxidation	7mg/L
Technical Sodium Chlorite Solution 18.75	Disinfection & Oxidation	35mg/L
Technical Sodium Chlorite Solution 31.25	Disinfection & Oxidation	22mg/L
Technical Sodium Chlorite Solution 50	Disinfection & Oxidation	14mg/L

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

NOTE: Only products bearing the NSF Mark are NSF Certified.

Number of matching Manufacturers is 1

Number of matching Products is 16

Processing time was 1 seconds

SAFETY DATA SHEET

M47030 - ANSI - EN



Occidental Chemical Corporation
A subsidiary of Occidental Petroleum Corporation



AKTA KLOR 25

SDS No.: M47030

SDS Revision Date: 09-Dec-2014

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:	Occidental Chemical Corporation 5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050 1-800-752-5151
24 Hour Emergency Telephone Number:	1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186
To Request an SDS:	MSDS@oxy.com or 1-972-404-3245
Customer Service:	1-800-752-5151 or 1-972-404-3700
Product Identifier:	AKTA KLOR 25
Trade Name:	AKTA KLOR 25
Synonyms:	25% Active Sodium Chlorite Solution, Sodium Chlorite Solution, Chlorous Acid, Sodium Salt, 25% 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
Uses Advised Against:	This is a pesticide product, do not use it in a pesticide application that is not included on its label.
Note:	Not registered as a pesticide in Canada

AKTA KLOR 25

SDS No.: M47030

SDS Revision Date: 09-Dec-2014

2. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW:

Color: Pale, yellow
Physical state Liquid
Appearance: Slightly cloudy
Odor: Slight chlorine odor

Signal Word: **DANGER**

MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. TOXIC IF INHALED. HARMFUL IF SWALLOWED. INGESTION MAY CAUSE DAMAGE TO: BLOOD SYSTEM, AND KIDNEY SYSTEM. INHALATION MAY CAUSE DAMAGE TO THE RESPIRATORY SYSTEM. MAY CAUSE DAMAGE TO THE BLOOD AND KIDNEYS THROUGH PROLONGED OR REPEATED EXPOSURES.

PHYSICAL HAZARDS: OXIDIZER. Dried material can ignite upon contact with combustibles.

AQUATIC TOXICITY: HARMFUL TO AQUATIC LIFE.

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, vapors, 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.

ADDITIONAL HAZARD INFORMATION: This material is corrosive and an oxidizer when dry. This material's pH and oxidative action contribute to its health and physical hazards.

GHS CLASSIFICATION:

GHS: CONTACT HAZARD - SKIN:	Category 1B - Causes severe skin burns and eye damage
GHS: CONTACT HAZARD - EYE:	Category 1 - Causes serious eye damage
GHS: ACUTE TOXICITY - INHALATION:	Category 3 - Toxic if inhaled
GHS: ACUTE TOXICITY - ORAL:	Not classified as acutely toxic for oral exposure

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GHS: ACUTE TOXICITY - DERMAL:	Not classified as acutely toxic for dermal exposure
GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	Category 2 - May cause damage to Respiratory System, Blood, Kidneys
GHS: TARGET ORGAN TOXICITY (REPEATED EXPOSURE):	Category 2 - May cause damage to Blood, Kidney through prolonged or repeated exposure

UNKNOWN ACUTE TOXICITY:

This product was tested as a whole. This information only pertains to untested mixtures.

GHS SYMBOL:

Skull and Crossbones, Corrosive, Health hazards



GHS SIGNAL WORD: DANGER

GHS HAZARD STATEMENTS:**GHS - Health Hazard Statement(s)**

Toxic if inhaled

Causes severe skin burns and eye damage

Causes serious eye damage

Harmful if swallowed

May cause damage to organs through prolonged or repeated exposure (Respiratory, Kidney, and Blood Systems)

May cause damage to Renal system (Kidneys), and Blood system through prolonged or repeated exposure

GHS - Precautionary Statement(s) - Prevention

Do not breathe dust, fume, gas, mist, vapors, or spray

In case of inadequate ventilation, wear respiratory protection

Wear protective gloves, protective clothing, eye, and face protection

Wash thoroughly after handling

Use only outdoors or in a well-ventilated area

Do not eat, drink or smoke when using this product

GHS - Precautionary Statement(s) - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Specific treatment is urgent (see Section 4 of SDS or first aid information on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Call a POISON CENTER or doctor/physician if you feel unwell

GHS - Precautionary Statement(s) - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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GHS - Precautionary Statement(s) - Disposal

Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Hazards Not Otherwise Classified (HNOC)

None identified

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 25% Active Sodium Chlorite Solution, Sodium Chlorite Solution, Chlorous Acid, Sodium Salt, 25% Sodium Chlorite Solution

Component	Percent [%]	CAS Number
Water	60 - 85	7732-18-5
Sodium chlorite	15 - 35	7758-19-2
Sodium Chloride	1 - 5	7647-14-5

4. FIRST AID MEASURES

INHALATION: If inhalation occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. Pulse oximetry may not be reliable, see notes to physician. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry and shoes. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

EYE CONTACT: Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present, then continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY.

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

Most Important Symptoms/Effects (Acute and Delayed) ::

Acute Symptoms/Effects: Listed below.

Inhalation (Breathing): Breathing (Inhalation): Inhalation of airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeal spasm and edema, shortness of breath, bronchio-constriction, and possible pulmonary edema. Severe and permanent scarring may occur. The pulmonary edema may develop several hours after a severe acute exposure.

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Skin: Skin Corrosion: Skin exposure to gas or liquid may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

Eye: Serious Eye Damage: Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

Ingestion (Swallowing): Ingestion: Exposure by ingestion may cause irritation, nausea, and vomiting. Oxidation may cause significant metabolic issues such as: methemoglobinemia, hemolysis, and intravascular coagulation and renal failure.

Delayed Symptoms/Effects:

- Repeated and prolonged skin contact may cause a dermatitis

Interaction with Other Chemicals Which Enhance Toxicity: Mixing with ammonia, acids, detergents, or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucus membranes. Chlorine dioxide vapors are emitted when this product contacts acids, chlorine, or bleach.

Medical Conditions Aggravated by Exposure: May aggravate preexisting conditions such as: Eye disorders that decrease tear production or have reduced integrity. Skin disorders that compromise the integrity of the skin. Respiratory conditions including asthma and other breathing disorders. Ingestion may induce G6PD deficiency, hemolysis and renal failure. G6PD deficiency, hemoglobinopathies, renal compromise, and conditions causing hypoxia may be aggravated by ingestion of this material.

Protection of First-Aiders: Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not ingest. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

Notes to Physician: Treat as a corrosive due to the pH of this material. This is also a strong oxidizer which will react with tissue in the presence of water. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no specific antidote. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation. Ingestion of even small amounts of solution should be closely monitored for methemoglobinemia, hemolysis, and glutathione depletion, followed by renal failure. This chemical acts similarly to its related compound chlorate, and produces a drug induced G6PD deficiency. Methylene blue has not been reported as effective. Consult the PubMed Case Report PMID 22996135 for the case description and treatment utilized. 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.

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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.

Hazardous Combustion Products: Chlorine, Oxides of sodium

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Flash point: Not applicable

Auto-ignition Temperature: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Isolate hazard area and deny entry. Keep unnecessary and unprotected personnel from entering the area. Avoid contact with skin and eyes. Do not breathe vapors, fumes or mist. Wear appropriate personal protective equipment recommended in Section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up:

Contain spill. Spilled materials may be absorbed using non-combustible and non-organic 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. Dried material can ignite upon contact with combustibles. Dispose of promptly. Dispose of in accordance with all applicable regulations.

Environmental Precautions:

This material is harmful to aquatic life. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies. See Section 12 for additional ecological information.

7. HANDLING AND STORAGE

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Precautions for Safe Handling:

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.

Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. Store in tightly closed, labeled containers away from combustible materials. Store in a cool, dry area. Store in a well-ventilated area. Do not allow water to get in container. Store below 212 °F (100 °C). Avoid exposure to sunlight or ultraviolet light. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): None. This product does not contain any components that have regulatory occupational exposure limits (OEL's).

OEL: *Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit*

NON-REGULATORY EXPOSURE LIMIT(S): Listed below for the product components that have non-regulatory occupational exposure limits (OEL's).

OXY REL 8 hr TWA	1 mg/m ³ recommended Time Weighted Average - 8 hour (internal Occupational Exposure Limit) This value is based on potential systemic effects from inhalation of sodium chlorite dust
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- *The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).*

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

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

PERSONAL PROTECTIVE EQUIPMENT:

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Eye Protection: Wear chemical safety goggles. Where splashing or spraying is possible, use a face-shield 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. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

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 [ppm]:	No data available.
Molecular Weight:	90.45
Molecular Formula:	NaClO ₂
Boiling Point/Range:	No data available
Freezing Point/Range:	No data available.
Melting Point/Range:	Not applicable to liquids
Crystallization Temperature:	-8°C (17.6°F)
Vapor Pressure:	No data available
Vapor Density (air=1):	No data available
Relative Density/Specific Gravity (water=1):	1.20 to 1.25 @ 25 °C
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
Flash point:	Not applicable
Flammability (solid, gas):	Not applicable
Lower Flammability Level (air):	Not flammable
Upper Flammability Level (air):	Not flammable
Auto-ignition Temperature:	Not applicable

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Viscosity: No data available

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal temperatures and pressures.**Chemical Stability:** Stable at normal temperatures and pressures.**Possibility of Hazardous Reactions:**

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.

Conditions to Avoid:

(e.g., static discharge, shock, or vibration) -. Avoid mechanical shock or impact, if contaminated.

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:**PRODUCT TOXICITY DATA:** Akta Klor 25

LD50 Oral: 390 mg/kg (Rat)	LD50 Dermal: > 2000 mg/kg (Rabbit)	LC50 Inhalation: 0.58 mg/L (4 hr. - Rat)
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COMPONENT TOXICITY DATA:

Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Sodium chlorite 7758-19-2	165 mg/kg (Rat)	107.2 mg/kg (Rabbit)	230 mg/m ³ (4 hr-Rat)
Sodium Chloride 7647-14-5	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m ³ (1 hr-Rat)

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POTENTIAL HEALTH EFFECTS:

- Eye contact:** Causes serious eye damage. Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. May cause permanent eye damage including blindness. Significant and prolonged contact may cause damage to the internal contents of eye.
- Skin contact:** Causes severe skin burns. May cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.
- Inhalation:** Toxic if inhaled. Inhalation may cause coughing, irritation (possibly severe), redness of upper and lower airways, shortness of breath, chemical burns and possibly pulmonary edema. Pulmonary edema may develop several hours after a severe acute exposure.
- Ingestion:** Harmful if swallowed. Ingestion may cause irritation, nausea, and vomiting. Causes significant metabolic issues through oxidation. May induce methemoglobinemia, hemolysis, and intravascular coagulation and renal failure.

SIGNS AND SYMPTOMS OF EXPOSURE:

Signs and symptoms of exposure vary, and are dependent on the route of exposure, degree of exposure, and duration of exposure.

Inhalation (Breathing): Breathing (Inhalation): Inhalation of airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeal spasm and edema, shortness of breath, bronchio-constriction, and possible pulmonary edema. Severe and permanent scarring may occur. The pulmonary edema may develop several hours after a severe acute exposure.

Skin: Skin Corrosion: Skin exposure to gas or liquid may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

Eye: Serious Eye Damage: Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

Ingestion (Swallowing): Ingestion: Exposure by ingestion may cause irritation, nausea, and vomiting. Oxidation may cause significant metabolic issues such as: methemoglobinemia, hemolysis, and intravascular coagulation and renal failure.

CHRONIC TOXICITY:

Sodium chlorite has produced hemolytic anemia in several animal species at concentrations of 100 mg/L or higher. In a subchronic study using rats, hematological alterations included decreased erythrocyte counts, hemoglobin levels, and hematocrit. 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. Repeated and prolonged skin contact may result in dermatitis.

Interaction with Other Chemicals Which Enhance Toxicity: Mixing with ammonia, acids, detergents, or organic matter will release chlorinated compounds, which are irritating to eyes, lungs, and mucous membranes. Chlorine dioxide vapors are emitted when this product contacts acids, chlorine, or bleach.

GHS HEALTH HAZARDS:

Listed below

GHS: ACUTE TOXICITY - ORAL: Not classified as acutely toxic for oral exposure.

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GHS: ACUTE TOXICITY - DERMAL: Not classified as acutely toxic for dermal exposure.

GHS: ACUTE TOXICITY - INHALATION: Category 3 - Toxic if inhaled.

GHS: CONTACT HAZARD - SKIN: Category 1B - Causes severe skin burns and eye damage

GHS: CONTACT HAZARD - EYE: Category 1 - Causes serious eye damage

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):
Category 2 - Respiratory System, Blood, Renal system (Kidneys)

SPECIFIC TARGET ORGAN TOXICITY (Repeated or Prolonged Exposure):
Category 2 - Blood, Renal System (Kidneys)

MUTAGENIC DATA:

Not classified as a mutagen per GHS criteria. 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:

Not classified as a reproductive toxin per GHS criteria. There is limited evidence of male reproductive effects in animal studies.

DEVELOPMENTAL TOXICITY:

Not classified as a developmental or reproductive toxin per GHS criteria. 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 = 0.66 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 > 10,000 ppm

FATE AND TRANSPORT:

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

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PERSISTENCE: This material will eventually degrade to sodium chloride.

BIOCONCENTRATION: This material will not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Waste from material:

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 Technical Service to obtain neutralization instructions. Keep out of water supplies and sewers. May be subject to disposal regulations.

Container Management:

Containers are non-refillable. 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 $\frac{1}{4}$ 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 $\frac{1}{4}$ 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. Container rinsate must be disposed of in compliance with applicable regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT**U.S. DOT 49 CFR 172.101:**

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

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

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

MARITIME TRANSPORT (IMO / IMDG) Regulated

UN NUMBER: UN1908
PROPER SHIPPING NAME: Chlorite Solution
HAZARD CLASS / DIVISION: 8
Packing Group: II
LABELING REQUIREMENTS: 8

15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORY STATUS:

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

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

Not regulated.

SARA EHS Chemical (40 CFR 355.30)

Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

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)

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FIFRA LABELING REQUIREMENTS: - This chemical is a pesticide product registered by the United States Environmental Protection Agency (EPA) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

- FIFRA Signal Word - DANGER
- Corrosive
- Harmful if swallowed
- Irritating to nose and throat
- This product is toxic to fish and aquatic organisms
- Dry sodium chlorite is a strong oxidizing agent. This product becomes a fire or explosive hazard if allowed to dry.
- Mix only into water
- 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 garbage, dirt, organic matter, household products, chemicals, soap products, paint products, solvents, acids, vinegar, beverages, oils, pine oil, dirty rags, or any other foreign matter

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 of this product are listed on either the DSL or the NDSL.

STATE REGULATIONS

Component	California Proposition 65 Cancer WARNING:	California Proposition 65 CRT List - Male reproductive toxin:	California Proposition 65 CRT List - Female reproductive toxin:	Massachusetts Right to Know Hazardous Substance List	New Jersey Right to Know Hazardous Substance List	New Jersey Special Health Hazards Substance List
Sodium chlorite 7758-19-2	Not Listed	Not Listed	Not Listed	Listed	1689	corrosive; reactive - second degree

Component	New Jersey - Environmental Hazardous Substance List	Pennsylvania Right to Know Hazardous Substance List	Pennsylvania Right to Know Special Hazardous Substances	Pennsylvania Right to Know Environmental Hazard List	Rhode Island Right to Know Hazardous Substance List
Sodium chlorite 7758-19-2	Not Listed	Listed	Not Listed	Not Listed	Not Listed

CANADIAN REGULATIONS

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.

Canada - CEPA Schedule I - Toxic Substance list: Not Listed

WHMIS - Classifications of Substances:

- D1A - Poisonous and Infectious Material; Materials causing immediate and serious toxic effects - Very toxic material
- D1B - Poisonous and Infectious Material; Materials causing immediate and serious toxic effects - Toxic material
- E - Corrosive material

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16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 09-Dec-2014

Disclaimer:

This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

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

Health Rating: 3

Flammability Rating: 0

Reactivity Rating: 1

NFPA 704 - Hazard Identification Ratings (SCALE 0-4)

Health Rating: 3

Flammability: 0

Reactivity Rating: 1

Reason for Revision:

- Updated the (M)SDS header
- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Updated 24 Hour Emergency Telephone Number: SEE SECTION 1
- Product Identifier has been added or updated: SEE SECTION 1
- Updated Uses Advised Against information: SEE SECTION 1
- Revised Hazard(s) Identification information: SEE SECTION 2
- Emergency Overview was revised: SEE SECTION 2
- Added GHS Information: SEE SECTION 2
- Updated First Aid Measures: SEE SECTION 4
- Revised Accidental Release Measures: SEE SECTION 6
- Revised Handling and Storage Recommendations: SEE SECTION 7
- Updated Physical and Chemical Properties: SEE SECTION 9
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Updated Disposal Considerations: SEE SECTION 13
- Updated FIFRA Regulations: SEE SECTION 15
- Revised Preparer Information: SEE SECTION 16
- Added SDS Revision Date: SEE SECTION 16
- Added "End of Safety Data Sheet" phrase

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IMPORTANT:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws

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, 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 Safety Data Sheet available to your employees

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, 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 Safety Data Sheet available to your employees

End of Safety Data Sheet