



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

19713-743

Date of Issuance:

12/8/25

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

DREXEL DRX NaClO3

Name and Address of Registrant (include ZIP Code):

Anna Hale
Registration
Drexel Chemical Company
Electronic Transmittal: ahale@drexchem.com

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Demson Fuller Product Manager 32
RMB1, Antimicrobials Division (7510P)

Date:

12/8/25

2. You are required to comply with the data requirements described in the DCIs identified below:

- a. Sodium Chlorate
 - i. GDCI-073301-17176
 - ii. GDCI-073301-17559
 - iii. GDCI-073301-30403
 - iv. GDCI-073301-26608
 - v. GDCI-073301-1624
 - vi. PDCI-073301-26684

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <https://www.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobials-division>

- 3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
- 4. The alternate brand name, *DREXATE 40*, has been added to the product record.
- 5. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 19713-743."
- 6. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 02/11/2025

If you have any questions, please contact Jack Hall via email at hall.john.j@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "DF", with a long horizontal stroke extending to the right.

Demson Fuller, Product Manager 32
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

ALTERNATE BRAND NAME: DREXATE 40



ACCEPTED

12/08/2025

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 19713-743

DRX NACLO₃

FOR INDUSTRIAL USE

A Precursor Chemical Solution for Use Only in a Chlorine Dioxide Generator System.

This chemical solution is for the use only in a Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water.

ACTIVE INGREDIENT:

Sodium Chlorate (NaClO₃)40.0%

OTHER INGREDIENTS:60.0%

TOTAL:100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

[See FIRST AID Below]

[See Side (Back) Panel for FIRST AID];

[See Page ____ for FIRST AID]

[See Container Labeling for (FIRST AID and) Complete Directions for Use]

[See (Attached) Booklet (Container Labeling) for Complete Directions for Use]

EPA Reg. No. 19713-XX

EPA Est. No. 19713-XX-X

Net Content:

_____ Gals. (_____ L)

FIRST AID

IF IN EYES

- Hold eye open and flush with a directed stream of water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor immediately for treatment advice.

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- **Do not** induce vomiting unless told to do so by a poison control center or doctor.
- **Do not** give anything by mouth to an unconscious person.

IF INHALED

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for medical emergency information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.



Manufactured By:

Drexel Chemical Company

P.O. Box 13327, Memphis, TN 38113-0327

SINCE 1972

The DREXEL logo is a registered trademark of Drexel Chemical Company.

**PRECAUTIONARY STATEMENTS:
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin or clothing. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

This product is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: This product is for use only in a Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for this product are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. This product has been certified to NSF/ANSI Standard 60 by NSF International.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. This product may be used to treat the following aquatic sites:

Recirculating Cooling Water Systems

To control microbial and algal slime in recirculating cooling water systems (including closed loop cooling systems), an intermittent or continuous application may be used. The typical chlorine dioxide residual concentration range is between 0.1 to 1.0 ppm for continuous feed doses and 0.1 to 5.0 ppm for intermittent feed doses. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Macrofouling control in Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2 to 25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25 to 2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (veligers), apply a continuous feed to achieve a residual of 0.1 to 0.5 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Bacterial slime control in Once-Through Cooling Water Towers

For control of bacterial slime in industrial once-through cooling water towers, the required dosages will vary depending on the degree of contamination present. The required chlorine dioxide residual concentrations range between 0.1 and 5.0 ppm. Chlorine dioxide may be applied either continuously or intermittently. The typical chlorine dioxide residual concentration range is 0.1 to 1.0 ppm for continuous doses, and 0.1 to 5.0 ppm for intermittent doses.

Pulp and papermill water systems

To control slime-forming microorganisms found in papermill influent and process water systems that may cause blockages of paper mill equipment, and to oxidize slime buildup already present. Chlorine dioxide may be applied in an intermittent or continuous dose. Either method of application must maintain a residual concentration of 0.1 to 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Textile processing water

To control slime-forming microorganisms in textile process water, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either method of application must maintain residual concentration of 0.1 to 5.0 ppm of chlorine dioxide in the process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide.

Pasteurizer, cannery and retort water systems

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

Impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection / sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5 to 9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids

(NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200 to 3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters.

Ultrasonic tank water; photo processing wash water; and leather processing solutions

(NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

This product is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chlorine dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 to 2.0 ppm chlorine dioxide.

Food Processing Plants, Dairies, Bottling Plants, and Breweries

For microbial control in typical food processing water systems, such as flume transport, chill water systems, hydrocoolers, beverage and brewery pasteurizers and bottle rinsing, apply this product through a chlorine dioxide generation system to achieve a chlorine dioxide residual concentration ranging from 0.25 to 5.0 ppm.

Water containing up to 3 ppm residual chlorine dioxide may be used for washing fruits and vegetables that are not raw agricultural commodities in accordance with 21CFR 173.300. Treatment of the fruits and vegetables with chlorine dioxide must be followed by a potable water rinse, or by blanching, cooking, or canning.

This product also may be used to generate chlorine dioxide for non-pesticidal uses such as:

- Oxidizing nutrients
- Eliminating odors
- Controlling scale and deposits
- Controlling iron and manganese
- Controlling corrosion
- Reducing sludge
- Clarifying/precipitating organic and inorganic particles
- Reducing TOC (Total Organic Carbon)
- Reducing color
- Destruction of odors caused by phenolic simple cyanides and sulfides by chemical oxidation

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Non-refillable container: Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth 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. Turn the container over onto its other 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. Alternatively, 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 at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY – CONDITIONS OF SALE

Our DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically directed, and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with the directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with the directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

The DREXEL logo is a registered trademark of Drexel Chemical Company. All other brand names, product names or trademarks belong to their respective holders.

{Note to reviewer: The following is considered optional marketing language:}

1. Chlorine dioxide is an effective biocide against microbial and algal slime in challenging water conditions in recirculating cooling water towers.
2. Chlorine dioxide is an effective biocide against adult mollusks in challenging water conditions in once-through cooling water towers.
3. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in textile processing water.
4. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in paper process water.
5. Chlorine dioxide is an effective biocide against bacterial slime in challenging water conditions in pasteurizer [, cannery] [and] [, retort water systems].
6. Chlorine dioxide is an effective biocide against microorganisms and algae that cause unacceptable odors and slime in challenging water conditions in [impound lake water] [,] [pond water] [reservoir water] [industrial waste water].
7. Chlorine dioxide is an effective biocide against slime caused by microbial populations in challenging water conditions in [gas and oil recovery injection water] [and] [fracturing system fluids].
8. Chlorine dioxide generated from this product is effective at pH greater than 7.
9. Chlorine dioxide generated from this product is effective at pH between 3 to 10.
10. Chlorine dioxide generated from this product efficacy is not impacted in the pH range of 3 to 10.
11. The efficacy of chlorine dioxide generated from this product is unaffected by ammonia, oil or organic contamination in cooling water or drinking water systems.
12. Because the use of chlorine dioxide generated from this product allows for lower usage rates to maintain control of the system, it reduces the copper corrosion rates.
13. Copper corrosion potential can be reduced by using chlorine dioxide generated from this product.
14. Chlorine dioxide generated from this product reduces corrosion potentials, helping to expand the life of assets such as condensers and cooling towers.
15. Chlorine dioxide generated from this product penetrates, removes, controls or prevents microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
16. Chlorine dioxide generated from this product can help remove, control or prevent microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
17. As a dissolved gas, chlorine dioxide penetrates and removes microbial slime, helping to recover the performance of your heat exchangers (condenser and cooling tower).
18. Replacing Cl₂ with chlorine dioxide generated from this product can decrease the micro-fouling and increase the flow rate through the condenser.
19. Replacing Cl₂ with chlorine dioxide generated from this product can decrease the micro-fouling and improve the pressure drop in the condenser.
20. Chlorine dioxide generated from this product helps clean and loosen slime debris from recirculating cooling tower surfaces, pasteurizer, cannery or retort water surfaces, textile or pulp and paper water surfaces, impound lakes, ponds or reservoir water including industrial waste water.
21. Chlorine dioxide generated from this product reduces the need for corrosion inhibiting chemicals in cooling water applications.
22. Chlorine dioxide generated from this product improves filter operation.
23. Chlorine dioxide generated from this product is effective against adult and veliger forms of mussels including zebra mussels.
24. Addition of chlorine dioxide generated from this product to the cooling water does not form corrosive byproducts. Corrosion of copper metal surfaces is not accelerated by biocide treatment.
25. When used as directed, chlorine dioxide generated from this product is available for microbiological control in cooling water rather than being consumed by inorganic-reducing substances in the cooling water.
26. When used as directed, chlorine dioxide generated from this product is available for microbiological control in drinking water rather than being consumed by inorganic-reducing substances in the drinking water.
27. Surface-active properties of Chlorine dioxide generated from this product provide a cleansing action that minimizes under-deposit corrosion. This means improved heat transfer and lower operating costs.
28. Effective for use in hard waters at low use concentrations, which means that chlorine dioxide generated from this product is a cost-effective microbiological treatment in cooling water to complement water and cost savings associated with operating at high cycles of concentration.