

04/24/2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

April 24, 2013

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Kindra Levels, Product Stewardship Specialist
Occidental Chemical Corporation
Post Office Box 809050
Dallas, TX 75380-9050

SUBJECT: Notification To Obtain NSF Logo Per PR Notice 98-10
Product Name: **Technical Sodium Chlorite Solution 18.75**
EPA Registration Number: **5382-44**
Application Date: April 3, 2013
Application Received Date: April 9, 2013

Dear Ms. Levels:

This acknowledges receipt of your Notification application, submitted under the provisions of FIFRA section 3 (c) 7(A) and PR Notice 98-10.

Pesticide Application:

Occidental Chemical Corporation has submitted the following documents for **EPA Reg. No. 5382-44:**

1. One (1) copy of the agency letter from Mr. Frank Sanders, Director of The Antimicrobials Division to Mr. Kenji Yano of NSF, providing guidance on the use of the NSF Logo;
2. A copy of the approved NSF Logos from the NSF website:
http://www.nsf.org/business/water_distribution/download_marks.asp?program/WaterDistributionSys
3. One (1) copy of the proposed modification of the Technical Sodium Chlorite Solution 18.75 Product Label text that bears the actual NSF Logo and any associated language;
4. One (1) copy of the proposed modification of the final Technical Sodium Chlorite Solution 18.75 Product Label that bears the actual NSF Logo and any associated language.

General Comments:

Based on a review of the material submitted, the following comments apply. The Notification application is **Acceptable**. A copy of the **accepted** Notification is attached in **Regulatory File Jacket 5382-44** for future reference.

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If you have questions or comments with regard to this Agency Letter, the please contact Killian Swift via email at Swift.Killian@epa.gov or by telephone at **703-308-6346**. When you are submitting information or data in response to this Agency Letter, please send a copy of this Agency Letter with your response in order to facilitate processing.

Sincerely yours,



Michael L. Mendelsohn,
Acting EPA Product Manager 32
Regulatory Management Branch II
Antimicrobials Division 7510P

Please read instructions on reverse before completing form.

Form Approved B No. 2070-0060

Print Form



United States Environmental Protection Agency Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Occidental Chemical Corporation / 5382-44	2. EPA Product Manager Monisha Harris	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Occidental Chemical Corporation / Technical Sodium Chlorite Solution 18.75	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) Occidental Chemical Corporation P.O. Box 809050 - Attn: Kindra Levels Dallas, TX. 75380-9050 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. N/A - Not Applicable Product Name N/A - Not Applicable	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Approved NSF logo added as per guidance letter by Mr. Frank Sanders of EPA, to Mr. Kenji Yano of NSF. This notification is consistent with the provisions of PR Notices 98-10 and EPA regulations in 40 CFR 152.46, and no other changes have been made to this product' labeling or to its confidential statement of formula (CSF). I understand it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Kindra Levels	Title Product Stewardship Specialist	Telephone No. (Include Area Code) 972-404-3446
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Product Stewardship Specialist	
4. Typed Name Kindra Levels	5. Date April 3, 2013	



Occidental Chemical Corporation OxyChem.
A subsidiary of Occidental Petroleum Corporation

5005 LBJ Freeway, Suite 2200, Dallas, Texas 75244-6152
P.O. Box 809050, Dallas, Texas 75380-9050
Phone: 972-404-3800

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April 3, 2013

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington, DC 20460

USPS Certified Mail#: 7012 1010 0002 2591 7174

RE: Notification to add the NSF logo to the Technical Sodium Chlorite Solution 18.75 label – (EPA Reg. No: 5382-44)

Dear Madam or Sir:

Enclosed is the EPA 8570-1 form, marked as a notification submission, being submitted to add the National Sanitation Foundation (NSF) logo to Occidental Chemical Corporation's existing label for Technical Sodium Chlorite Solution 18.75, EPA Reg. No. 5382-44. This notification is being submitted in accordance with PR Notice 98-10.

The following documents have been enclosed in support of this notification:

- Application for Pesticide Registration, EPA Form 8570-1
- One (1) copy of the letter from Mr. Frank Sanders, Director of Antimicrobial Division, to Mr. Kenji Yano of NSF, providing guidance on the use of the NSF logo
- A copy of the approved NSF logos from the NSF website:
http://www.nsf.org/business/water_distribution/download_marks.asp?program=WaterDistributionSys
- One (1) copy of the proposed modification of the Technical Sodium Chlorite Solution 18.75 label text that bears the actual NSF logo and any associated language
- One (1) copy of the proposed modification of the final Technical Sodium Chlorite Solution 18.75 label that bears the actual NSF logo and any associated language

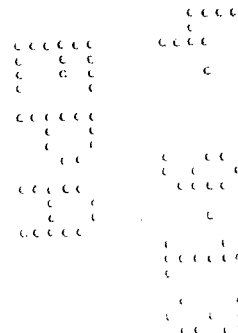
As stated on the 8570-1 form, the only change made to the label was the addition of the NSF logo.

Should you have any questions regarding this notification, please give me a call at (972)404-3446, or you may email me at Kindra.Levels@oxy.com.

Sincerely,

Kindra Levels – Product Stewardship Specialist
Occidental Chemical Corporation
Phone: 972-404-3446, Fax: 972-404-3219
Email: Kindra.Levels@oxy.com

Enclosures



NOTIFICATION
Date Received: April 04, 2013
Reviewed By: William B. Swift

TECHNICAL SODIUM CHLORITE SOLUTION 18.75

(15% Active Sodium Chlorite)

ACTIVE INGREDIENTS: Sodium Chlorite* 15%
OTHER INGREDIENTS: 85%
TOTAL 100%
***AVAILABLE CHLORINE** 23.4%

CONTAINS 1.55 LBS. OF SODIUM CHLORITE
PER GALLON AT 70°F

**KEEP OUT OF REACH OF CHILDREN
DANGER**

FIRST AID

If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor immediately for treatment advice.
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice if burning or irritation of the skin persists.
If swallowed:	• Have person drink a glass of water immediately if able to swallow. • Call a poison control center or doctor immediately for treatment advice.
If inhaled:	• Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. • Move person to fresh air and monitor for respiratory distress. If cough or difficulty in breathing develops, consult a physician immediately. • If person is not breathing, call 911 or an ambulance, then give artificial respiration. • Call a poison control center or doctor for further treatment advice.
For emergency information call: 800-733-3665 (24 hours) Have the product container or label with you when calling a poison control center or doctor or going to treatment.	

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured By:

OXY
Occidental Chemical Corporation
P. O. Box 809050
Dallas, TX 75380-9050

24-Hour Emergency No: 1-800-733-3665
CHEMTREC Emergency No: 1-800-424-9300
 EPA Est. 5382-KS-1
 EPA Est. 70547-IL-1

Gals. Net ()

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin or on clothing. Wear protective eyewear (splashproof goggles). Wear protective clothing and rubber gloves when handling this product. Avoid breathing mists or fumes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse to avoid fire.

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 the 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
 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 gaseous, heat, liberation of hazardous gases (chlorine dioxide with gaseous, 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.

DIRECTIONS FOR USE
 It is a violation of Federal law to use the product in a manner inconsistent with its labeling.

Directions for Controlling the Growth of Algae in Recirculating Cooling Water Towers
 1. Clean badly fouled systems before starting treatment. 2. When algae are visible, add an initial dosage of 14 fluid ounces of Sodium Chlorite per 1,000 gals. of water in the system. Repeat if necessary until control is evident. 3. Where algae control is evident, use a subsequent dose of 7 fluid ounces of Sodium Chlorite solution per 1,000 gals. of water in the system twice a week or as needed to maintain control. 4. Add Sodium Chlorite directly to the cooling tower drip pan (cold water basin) near the inlet to the recirculating pump.

Directions for Use in the Mechanical Generation of Chlorine Dioxide as a Disinfectant or Oxidant in Aquatic Systems.
 Feed requirements: Feed rates of Technical Sodium Chlorite Solution 18.75 will depend on the severity of contamination and the degree of control desired. The exact dosage will depend on the size of the system and residual necessary for effective control.

Some examples of industrial applications of chlorine dioxide include:
 • Potable water disinfection and removal of sulfide.
 • Control of bacterial slime and algae and mollusks in industrial circulating and one-pass cooling systems.

recirculating and one-pass cooling systems, the required dosages will vary depending on the exact application and 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 - 1.0 ppm for continuous dosages and 0.1 - 5.0 ppm for intermittent dosages. The minimum acceptable residual concentration of chlorine dioxide is 0.1 ppm for a minimum one minute contact time.

Potable Water Treatment
 Chlorine dioxide (ClO₂) is used as both an oxidant and a disinfectant in drinking water treatment. The required dosages will vary with source water conditions and the degree of contamination present. For most municipal and public potable water systems, a chlorine dioxide residual concentration of up to 2 ppm is sufficient to provide adequate disinfection. Residual disinfectant and disinfection byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR Part 141) and state drinking water standards.

Bacterial Slime Control in Paper Mills
 Chlorine dioxide generated from sodium chlorite is effective for use in controlling microbiological growth in white water paper mill systems. The required dosages will vary with the degree of microbiological and process contamination present. Depending on the specific requirements of the system, sodium chlorite should be applied continuously or intermittently through a chlorine dioxide generating system to achieve a chlorine dioxide residual concentration between 0.1 and 5.0 ppm. Intermittent treatments should be repeated as often as necessary to maintain control.

Mollusk Control in Water Systems
 Chlorine dioxide generated from sodium chlorite may be used for mollusk control in commercial and industrial recirculating and one-pass cooling water systems. The required dosages will vary with the system type, system conditions, the degree of water contamination present and the desired level of control. Depending on the extent of the infestation, sodium chlorite may be applied either continuously or intermittently through a chlorine dioxide generating system to achieve the necessary chlorine dioxide residual concentration.

Veiliger Control: Maintain a continuous chlorine dioxide residual of 0.1 - 0.5 ppm.
Intermittent Dose: Apply chlorine dioxide to obtain a chlorine dioxide residual concentration of 0.2 - 25 ppm. Repeat as necessary to maintain control.

Continuous Dose: Maintain a chlorine dioxide residual concentration of up to 2 ppm.

Bacterial Control in Oil Wells and Petroleum Systems
 Chlorine dioxide is effective in the remediation of bacterial and sulfide contamination commonly found in oilfield production, injection and disposal fluids. The required dosages will vary with process conditions. Sodium chlorite may be applied either continuously or intermittently through a chlorine dioxide generating system to oil well production water as it is separated from the oil, and before it is re-injected into the well.

For continuous feeds, chlorine dioxide may be applied at dosages slightly higher than sulfide's oxidative demand as determined by a demand study. For intermittent treatment, chlorine dioxide should be applied at a shock dosage of 200 - 3000 ppm.

Wastewater Treatment
 Chlorine dioxide (ClO₂) is effective as both a disinfectant and an oxidant in wastewater treatment. The required dosages will vary with water conditions and the degree of contamination present. For most municipal and other wastewater systems, a chlorine dioxide residual concentration of up to 5 ppm is sufficient to provide adequate disinfection.

For sulfide odor control, between pH 5-9, a minimum of 5.2 ppm (w/v) of chlorine dioxide should be applied to oxidize 1 ppm of sulfide (measured as sulfide ion). For phenol destruction, at pH less than 8, 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol; at pH greater than 10, 3.3 ppm chlorine dioxide will oxidize 1 ppm phenol.

STORAGE AND DISPOSAL
STORAGE: Do not contaminate water, food or feed by storage or disposal. Keep product in tightly closed container when not in use. Don't drop, roll or skid drum. Keep upright. Always replace cover. Store in a cool, dry well-ventilated area away from heat or open flame.

EMERGENCY HANDLING: In case of contamination or decomposition, do not re-seal container if possible. Isolate container in open and well ventilated area. Flood with large volumes of water. If fire occurs, extinguish by applying large quantities of water. Any unopened drums near the fire should be cooled by spraying with water.

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

CONTAINER DISPOSAL: Nonrefillable Container. Do not reuse or refill this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple Rinse or Pressure Rinse container promptly after emptying.

Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closure. Contain on its side and roll it back and forth, etc., at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinse into application equipment or a mix tank or store rinseate 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 rinseate 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.

147026 (6500) OC_US_dr_EPA (1209) R03

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