

21164-3

12/30/2009

1099



Office of Pesticide Programs

Kindra V. Levels
Industrial Health Specialist
Occidental Chemical Corporation
PO Box 809050
Dallas, TX 75380-9050

DEC 30 2009
FILE COPY

Subject: Dura Klor
EPA Registration No. 21164-3
Application Date: December 03, 2009
Receipt Date: December 11, 2009

Dear Ms. Levels:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c)9.

Proposed Notification:

- Revision to "Storage and Disposal" statement per PR Notice 2007-4

General Comments:

Based on a review of the material submitted, the following comment applies:

The notification application is acceptable and a copy has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, please contact me at (703) 308-6345.

Sincerely,

Wanda Y. Henson
Acting Product Manager (32)
Regulatory Management Branch II
Antimicrobials Division (7510P)

2009

Please read instructions on reverse before completing form.

Form App. OMB 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 / 21164-3	2. EPA Product Manager Emily Mitchell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dura Klor	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) Occidental Chemical Corporation PO Box 809050 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. _____ Product Name _____	

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.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. - (The complete statement required by PR Notice 2007-4 is on the additional page. See attached.)

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 55 gal. drum & 5 gal. pail		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" 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 V. Levels	Title Industrial Health 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 of both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Industrial Health Specialist	
4. Typed Name Kindra V. Levels	5. Date Dec 3, 2009	

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Occidental Chemical Corporation
A subsidiary of Occidental Petroleum Corporation

OxyChem.

5005 LBJ Freeway, Suite 2200, Dallas, TX 75244-6119
P. O. Box 809050, Dallas, TX 75380-9050
Phone 972.404.3800

December 3, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington, DC 20460-0001

SUBJECT: Notification of label changes per PR Notice 2007-4

Dear Madam or Sir:

Enclosed is a pesticide registration amendment application for Occidental Chemical Corporation's **Dura Klor, EPA Reg. No. 21164-3**. The registration is being amended by notification to bring it into compliance with the current regulatory requirements of Pesticide Registration Notice (PR) 2007-4: Labeling Revisions Required by the Final Rule "Pesticide Management and Disposal; Standards for Pesticide Containers and Containment."

Enclosed you will find the following documents supporting this notification:

- *Application for Pesticide Registration, EPA Form 8570-1, with an attachment*
- One (1) copy of the new label (with changes highlighted)

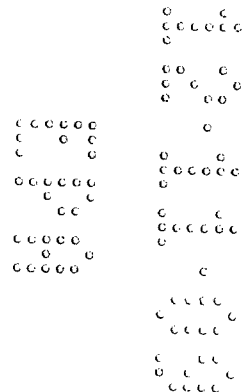
Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, 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.

Should you have any questions regarding this registration amendment application, please give me a call at the number indicated below or you may e-mail me at kindra_levels@oxy.com.

Sincerely,

Kindra Levels

Enclosures



{All text in braces {xxx} is administrative and will not appear on a final label}
{All text in brackets [xxx] is optional and may or may not be included on a final label}

Column 1

DURA-KLOR

DURA KLOR

A pre-activated and stabilized solution of Sodium Chlorite that provides a controlled release of Chlorine Dioxide at the point of use application

PRECAUTIONARY STATEMENTS

Hazards to Human and Domestic Animals

CAUTION IRRITANT. Harmful if swallowed. Causes eye irritation. Avoid contact with skin, eyes or clothing. Irritating to nose and throat. Avoid breathing spray mist. In case of contact, immediately flush eyes and skin with plenty of water. Get medical attention if irritation persis.

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.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix with acids or other chemicals except water. Mixing with acid or other chemicals may cause evolution of chlorine dioxide gas, which is poisonous and explosive. Do not let spilled solution evaporate to dryness. If resultant residue contacts oxidizable or combustible materials, the mixture is easily ignited by heat or friction. This results in a fiercely burning fire, or in a confined space, a possible explosion. Examples of such materials are cloth, paper, wood, sawdust, hydrocarbons such as greases, oils, and solvents, rubber, leather, plastics, and organic substances in general; also sulfur, sulfides, powdered metals, phosphorous and ammonium compounds.

DIRECTIONS FOR USE

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

o **AS A PAPER PROCESSING SLIMICIDE IN WHITE WATER SYSTEMS:** This product has FDA GRAS status when used as a slimicide in the manufacture of paper and paperboard that contacts food (21 CFR 186.1750)

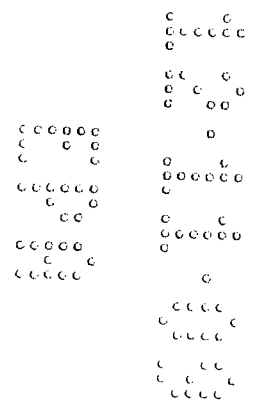
APPLICATION DIRECTIONS:

(1) If the pH of the white water is below 7.0, use 5 to 15 gallons of DURA KLOR per 100,000 gallons of white water to be treated, which corresponds to an active ingredient concentration of 3 to 9 ppm. Alternatively, use 2 to 4 gallons DURA KLOR per 100 tons of paper produced, which correlates to a dosage rate of 5 to 15 ppm active ingredient. (2) If the pH of the white water is above 7.0, then add 0.5 gallon of 5% to 6% sodium hypochlorite as an activator with each 4 gallons of DURA KLOR. Continuous proportioning of feed via a suitable metering pump is recommended for best results. In many cases, the amount can be reduced after the system is clean.

FOR ENCLOSED AND RECIRCULATING WATER SYSTEMS:

DURA KLOR should be injected at a point in the system where it will undergo uniform mixing. It is recommended that a slow feed rate be applied directly into the suction side of the

NOTIFICATION
Date Reviewed: 12/30/09
Reviewed By: W. Pearson



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{All text in braces {xxx} is administrative and will not appear on a final label}
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Column 2

DURA-KLOR

ACTIVE INGREDIENT: Sodium Chlorite* 8.3%
OTHER INGREDIENTS: 91.7%
Total: 100%

KEEP OUT OF REACH OF CHILDREN	
CAUTION	
FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes. • Call a poison control center or doctor immediately for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Have person drink a glass of water immediately if able to swallow. • Call a poison control center or doctor immediately for treatment advice. • 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.
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.	

EPA Reg. No. 21164-3

EPA Est. 5382-KS-01
 EPA Est. 70547-IL-01

NET CONTENTS: _____ Gals. (_____ l)

system pump. Badly fouled systems should be clean prior to treatment. (1) If the pH of the water system is less than 5.5, DURA KLOR should be applied as follows:

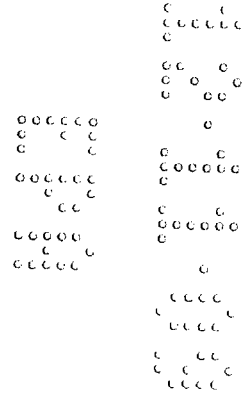
INITIAL DOSE -- When the system is noticeably fouled, apply 1 gallon of DURA KLOR per 10,000 gallons of water in the system. Repeat dosage every 24 hours until acceptable microbiological quality is achieved. Usually 3 to 6 applications will suffice.

Made in U.S.A.

Manufactured By:



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



{All text in braces {xxx} is administrative and will not appear on a final label}
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Column 3

DURA-KLOR

SUBSEQUENT DOSE - After acceptable microbiological quality is achieved, the system may be maintained by adding 3 doses of DURA KLOR every 14 to 24 days or as often as required for control. Each dose consists of 1 gallon of DURA KLOR per 10,000 gallons water in the system repeated every 24 hours for a total of 3 additions. Treatment may then be discontinued for another 14 to 24 days or until fouling again becomes evident.

(2) If the pH of the water system is greater than 5.5, DURA KLOR should be applied as follows: Dilute each gallon of DURA KLOR to be added with 5 to 10 gallons water then adjust this mixture to a mildly acidic pH (2.5 to 5.5) with careful additions of a dilute (10% by weight maximum) acid/water mixture (e.g. muriatic, phosphoric, acetic, citric); an acidic mixture containing corrosion inhibitors, descalers, surfactants, or sequestrants; an aqueous solution of sodium hypochlorite; or an aqueous solution of hypochlorous acid. This pH adjusted pre-mix should then be added immediately to the given process system at the above indicated dose rate of 1 gallon acidified or activated DURA KLOR pre-mix to 10,000 gallons system water. The DURA KLOR pre-mix should be injected into the system at a point where it will be uniformly diluted and mixed.

NOTE: The addition of concentrated acids or mixtures of acids to undiluted DURA KLOR can cause the evolution of chlorine dioxide gas, which may be poisonous or explosive at high concentrations. Do not allow the chlorine dioxide concentration in the pre-mix to exceed 1500 ppm. Measurement of chlorine dioxide concentrations may be made with a Hach DPD chlorine test kit or by amperometric titration. Always consult your Occidental Chemical Corporation representative for guidance and analytical procedures before performing any acid additions to DURA KLOR.

SPECIFIC APPLICATIONS

DURA KLOR may be used to treat enclosed and recirculating systems in the following application

- A) Dairy -- Sweet water systems to reduce microbiological levels.
- B) Farming -- Irrigation systems for slime reduction in tubing and piping.
- C) Papermills -- General water treatment to reduce microbiological growth.
- D) Oilfield -- To improve secondary recovery process water quality.
- E) General Industrial Applications Including Food Processing -- To reduce microbiological growth in cooling towers and industrial process water, including wash water of uncut and unpeeled fruits and vegetables. (Note: Residual concentrations of up to 5 ppm chlorine dioxide in process water may be used for washing whole uncut fruits and vegetables although a final potable water rinse is required if the residual exceeds 1 ppm).

o FOR FOGGING AND MISTING APPLICATIONS:

DURA KLOR may be added to the plant misting or fogging systems to deodorize and to control odor causing bacteria, mold and mildew in food processing plants, dairies, bottling plants, poultry, meat and fish plants and animal facilities such as poultry houses, swine pens, calf barns and kennels.

Application Directions:

When fogging rooms with DURA KLOR care should be taken not to exceed the TLV-TWA of 0.1 ppm (0.30 mg/m3). If the TLV-TWA is to be exceeded, turn off air handlers and vacate people and livestock from the rooms to be fogged or misted. Ventilate for 15 minutes prior to reentry.

- (1) Mix 1.5 mL to 30 mL DURA KLOR per gallon of water. To this dilution, add a sufficient amount of 1 to 3% by weight of an aqueous food grade acid solution (phosphoric, citric, acetic, etc.) to lower the pH to 3.5 to 5.0.
- (2) Allow this diluted mixture to react for at least 15 minutes before adding to the plant fogging or misting system.
- (3) For best results, fogging or misting with diluted, acidified DURA KLOR should be done as close to the ceiling as possible.

NOTE -- Be careful not to add concentrated acid solutions to undiluted DURA KLOR as high concentrations of chlorine dioxide gas may evolve. The concentration of chlorine dioxide in the diluted DURA KLOR solution should not be allowed to exceed 0.5 ppm as determined by the Hach DPD method for chlorine dioxide detection. Please consult your Occidental Chemical Corporation representative for exact testing procedures before adding any acid to DURA KLOR. The use of DURA KLOR in fogging or misting should be accompanied by a regular air monitoring program.

o TO PREVENT CORROSION AND SLIME FORMATION IN OIL FIELD SECONDARY RECOVERY OPERATIONS:

Application Directions

- (1) Prepare a working solution by diluting each gallon of DURA KLOR to be used with 6 gallons injection water.
- (2) Proportion 1 part of the diluted DURA KLOR solution into 130 to 140 parts reinjection water acidified to a pH of 3.0 to 4.0.

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Column 4

DURA-KLOR

(3) Increase or decrease the dose rate of the DURA KLOR solution as indicated by monitoring the microbial quality of the water.

" **POULTRY PROCESSING:**

Carcass sprays, dips, rinses: DURA KLOR may be used as an equipment rinse and carcass spray or dip at a use rate of 0.7 to 1.7 ounces per gallon (500 - 1200 ppm sodium chlorite) in combination with any GRAS acid at levels sufficient to achieve a solution pH of 2.5 to 2.9. Chill water applications: DURA KLOR is a source of sodium chlorite for treating poultry chill water and pre-chill water when used at a rate of 0.1 to 0.3 ounces per gallon on combination with any GRAS acid at levels sufficient to achieve a solution pH of 2.8 to 3.2.

o **TO DISINFECT AND SANITIZE AGAINST ODOR CAUSING BACTERIA ON HARD NON-POROUS SURFACES, SUCH AS WALLS, CEILINGS, FLOORS, DRAINS, PIPELINES, COUNTERS, SINKS, TILES:**

- (1) Before disinfection or sanitization, remove gross debris, food and beverages from the surfaces to be cleaned.
- (2) Add 1 to 2 fluid ounces DURA KLOR per five (5) gallons of water to be used [100 - 200 ppm available chlorine dioxide; 21 CFR 178.1010 (b)(34), (c)(29)].
- (3) The DURA KLOR solution may be applied by spraying, misting, pouring, or wiping onto the surface to be treated. Allow the DURA KLOR solution to contact the surface for at least 5 minutes before wiping off.

" **TO CONTROL SLIME AND MOLD GROWTH ON FOOD PROCESS AND BEVERAGE CONVEYORS:**

DURA KLOR may be sprayed on food process conveyors to control mold and slime build-up that leads to product contamination and possible belt slippage. Apply DURAKLOR at a rate of 1 to 2 fluid ounces per 5 gallons of water either by itself or in combination with a non-reactive water based lubricant.

o **FOR DEODORIZATION:**

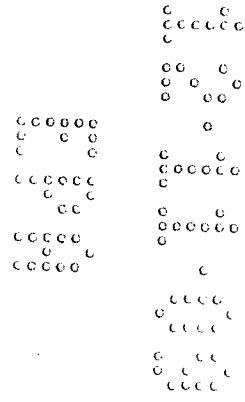
DURA KLOR effectively eliminates odors in the air and at their source.

- (1) Before deodorization, remove unopened and unwrapped food and beverages for the area to be treated.
- (2) Dilute a minimum of 0.5 fluid ounces of DURA KLOR per gallon of water to be used. For severe conditions, DURA KLOR may be used undiluted.
- (3) For room deodorization, spray, pour, or wipe the DURA KLOR solution as needed. For best results, apply the DURA KLOR as near to the center of the area to be treated as possible.
- (4) For surface deodorization, spray, pour, or wipe the DURA KLOR on the effected area as often as necessary. For best results, allow to air dry for 10 minutes after treatment and then rinse surfaces treated with potable water.

o **TO CONTROL MOLD AND MILDEW:**

DURA KLOR is effective in controlling mold and mildew on bathroom surfaces, shower stalls, on curtains, in laundry rooms, hampers, and on other surfaces where mold and mildew may be present.

- (1) Before treatment, remove gross filth and debris form the affected surfaces. Remove all open and unwrapped food and beverages form the vicinity.
- (2) Dilute a minimum of 12 fl. oz. of DURA KLOR per gallon of water to be used. For several applications, DURA KLOR may be used undiluted.
- (3) Spray, mist, fog, pour or wipe the DURA KLOR solution onto the surface to be treated. Allow the DURA KLOR to contact the surface for at least 5 minutes. Allow surfaces to drain and air dry. After 30 minutes, rinse with water. Repeat as necessary.



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{All text in brackets [xxx] is optional and may or may not be included on a final label}

Column 5

DURA-KLOR

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.
PESTICIDE STORAGE: Do not store this product with oxidizers, acids, reducing agents, or combustible materials. Store in a cool, dry well-ventilated location away from direct sunlight. Protect from freezing. Store upright and do not stack over two drums per pallet. A drum pump is recommended for transferring this material. Keep drums tightly closed when not in use. Store only in the original containers or approved storage containers and guard against cross-contamination with other pesticides, fertilizers, food and feed. Do not reuse containers.
EMERGENCY HANDLING: In case of contamination or decomposition, do not reseal container. If possible, isolate container in open and well ventilated location. Flood with large volumes of water.
PESTICIDE DISPOSAL: Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

{Text for non-refillable liquid containers that are 5 gallons or smaller}
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 the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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.
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.

{Text for non-refillable liquid containers that are larger than 5 gallons}
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 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.

{Text for refillable liquid containers}
CONTAINER DISPOSAL: Refillable Container
Refill this container with [Technical Sodium Chlorite Solution 50] [Supplemental distributor brand name] only. Do not reuse this container for any other purpose.
Cleaning or pressure rinsing 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 a 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 process two more times.
To pressure rinse the container before final disposal, 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.

SPILLS: In case of spills, dilute with large quantities of water and flush to a designated sewer in accordance with applicable federal, state, and local regulations. Alternatively, this product may be flushed to a collection basin or container for disposal. Comply with all applicable federal, state, and local regulations regarding spill notification requirements.

