43553-34 (12/30/2013 (1/6

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

DEC 30 2013

Ms. Kimberly Graham, Laboratory Manager
CH2O, Inc.
8820 Old Highway, S.E.
Olympia, WA 98501

Subject: Adding NSF Logo And Minor Label Changes per PR Notice 98-10
Aqua-Clear 15
EPA Registration Number: **43553-34**
Application Date: October 16, 2013
EPA Receipt Date: October 21, 2013

Dear Ms. Graham:

This acknowledges receipt of your Notification application, submitted under the provisions of FIFRA 3(c)9 and PR Notice 98-10.

Notification Purpose:

CH2O, Inc. is submitting the following minor label changes for **EPA Reg. No. 43553-34:**

On Page Two:
Adding NSF Logo;
Adding statement of "Use Limit" for Potable Water: "Maximum use for potable water: 35mg/L."

General Comments:

Based on the review of the information submitted, the following comments apply.

The Notification is **Acceptable.**

A copy of the **accepted** Notification is attached in **Regulatory File Jacket 43553-34** for future reference.

If you have questions or comments with regard to this Agency Letter, please contact me by email at **Fuller.Demson@epa.gov** by telephone at **703-308-8062.** 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,

Demson Fuller,
EPA Product Manager 32
Regulatory Management Branch II
Antimicrobials Division 7510P

Please read instructions on reverse before completing. Form Approved. OMB 2070-0060 Print Form 3/6

United States Environmental Protection Agency Washington, DC 20460

☐ Registration ☒ Amendment ☐ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number: CH_2O, Inc. / 43558-34
2. EPA Product Manager
3. Proposed Classification: ☐ None ☐ Restricted
4. Company/Product (Name): Aqua Clear 15
PM#
5. Name and Address of Applicant (Include ZIP Code)
CH_2O, Inc.
8820 Old Hwy 99 SE
Olympia, WA 98501
☐ 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

☐ Amendment - Explain below.
☐ Resubmission in response to Agency letter dated _____
☒ Notification - Explain below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application.
☐ Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification of changes to label to include NSF Logo and Statement adjacent to logo "Maximum use for potable water: 35 mg/L" per PR Notice 98-10

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes* ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Metal ☒ Plastic ☐ Glass ☐ Paper ☐ Other (Specify)
* Certification must be submitted	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information: ☒ Label ☐ Container
4. Size(s) Retail Container: 5, 15, 30, 55, 275 Gal
5. Location of Label Directions: ☒ On Label ☐ On Labeling accompanying product
6. Manner in Which Label is Affixed to Product: ☐ Lithograph ☒ Paper glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name	Title	Telephone No. (Include Area Code)
Kimberly Graham	Laboratory Manager	360-943-6063

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
[signature]	Laboratory Manager
4. Typed Name: Kimberly Graham	5. Date: 10-16-13

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Cop

CH2O INCORPORATED
8820 Old Hwy 99 SE, Olympia, WA 98501 TEL (360) 943-6063 FAX (360) 352-4813 www.ch2o.com

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October 16, 2013

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
401 M Street S.W.
Washington, D.C. 20460-0001

SUBJECT: Notification of label changes per PR Notice 98-10

Dear Madam or Sir:
Enclosed is a pesticide registration amendment application for CH_2O, Inc.'s Aqua-Clear 15, ID# 43553-34. The registration is being amended by notification to add an NSF logo as well as the statement of the use limit for potable water.

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)

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of 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 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

Regards,

Kimberly Graham
Laboratory Manager

Aqua-Clear 15

(15% Active Sodium Chlorite)

ACTIVE INGREDIENT: Sodium Chlorite*	15%
INERT 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 centeror doctor for treatment advice if burning or irritation of the skin persists. *Have person drink a glass of water immediately if able to swallow.
If swallowed:	*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.
If Inhaled:	*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: 1-800-424-9300 (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. 43553-34 EPA Est. 43553-WA-1

NET CONTENTS: _____Gal. (_____L) **LOT #:** _____

CH_2O, Incorporated
8820 Old Hwy. 99 SE, Olympia, WA 98501/ 360-943-6063

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 and wash contaminated clothing 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 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.

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 **Aqua-Clear 15** 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 **Aqua-Clear 15** solution per 1,000 gals. of water in the system twice a week or as needed to maintain control. 4. Add **Aqua-Clear 15** directly to the cooling tower drip pan (cold water basin) near the inlet to the recirculating pump.

Directions for Use in the Mechanical or Electrolytic Generation of Chlorine Dioxide as a Disinfectant, or for Microorganism or Mollusk Control and as a Chemical Oxidant in Aquatic Systems.

Feed requirements: Feed rates of **Aqua-Clear 15** 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 recirculating and one-pass cooling water systems. • Biocontrol in food processing flumes, water-using equipment, cooling water, and recycled waters. • Disinfection of sewage and plant wastes. • Destruction of phenolics, simple cyanides and sulfides by chemical oxidation. • Bacterial slime control in white water paper mill systems • Bacterial control in oil well and petroleum systems.

See product bulletins (or Technical Data Sheets) for specific application instructions. Your CH_2O representative can guide you in application techniques.

Method of feed: Large amounts of chlorine dioxide can be generated by several common methods, including: 1. The chlorine method which utilizes a **Aqua-Clear 15** solution and chlorine gas, 2. The hypochlorite method which utilizes a **Aqua-Clear 15** solution, a hypochlorite solution, and an acid, or 3. The acid-chlorite method, which uses **Aqua-Clear 15** and an acid as the activating agent.

Your CH_2O representative can guide you in the selection, installation and operation for feed systems. Consult product bulletin and also the instructions on the chlorine dioxide generation system before using **Aqua-Clear 15**.

NOTIFICATION
Date Reviewed: 12-30-13
Reviewed By: KillianSwift

(05/10-1)

User is responsible for compliance with applicable federal, state and local laws regarding proper use and disposal of the chlorine dioxide generated.

Directions for Use in Controlling Microbial Population in Poultry Chill Water

Chlorine dioxide generated from **Aqua-Clear 15** may be used as an antimicrobal agent in poultry chill water, provided that the residual concentration of chlorine dioxide does not exceed 3 ppm, as determined by an appropriate method in accordance with 21 CFR 173.300.

For treatment of poultry chill water, apply **Aqua-Clear 15** as necessary through a chlorine dioxide generation system to maintain aresidual concentration of up to 3 parts per million (ppm) chlorine dioxide in the chiller water.

Food Plant Process Water Treatment

Chlorine dioxide generated from **Aqua-Clear 15** is effective for use in controlling microbiological growth in flume water and other food processing water systems such as chill water systems and hydrocoolers. The required dosages will vary with process conditions and the degree of contamination present. Depending on the requirements of the specific water system, **Aqua-Clear 15** should be applied continuously or intermittently through a chlorine dioxide generating system to achieve a chlorine dioxide residual concentration between 0.25 and 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 21 CFR 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.

Industrial Cooling Water Treatment

For control of bacterial slime and algae in industrial 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 doses, and 0.1 - 5.0 ppm for intermittent doses. The minimum acceptable residual concentration of chlorine dioxide is 0.1 ppm for a minimum one minute contact time.

Potable Water Treatment

Chlorine dioxide (ClO_2) 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 byproducts must be monitored as required by the National Primary Drinking Water Regulations (40 CFR part 141) and state drinking water standards.

Mollusk Control in Water Systems

Chlorine dioxide generated from **Aqua-Clear 15** may be used for mollusk control in irrigation systems and 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, **Aqua-Clear 15** may be applied either continuously or intermittently through a chlorine dioxide generating system to achieve the necessary chlorine dioxide residual concentration. Veliger 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.

Wastewater Treatment

Chlorine dioxide (ClO_2) 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 (wt) 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 reseal container. If possible, isolate container in open and well ventilated area. Flood with large volumes of water. If fire occurs, extinguish fire 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 rinsate 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: Non-refillable container. 5 Gallons or Less.

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.

Non-refillable container. Larger than 5 Gallons.

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. 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 at about 40 PSI for at least 30 seconds. Drain for 10 seconds, after the flow begins to drip.

NON-WARRANTY: As the use of this material is subject to conditions beynd the seller's control, seller makes no warranty express or implied as to this material or its use other than its chemical analysis when packed. The total liability of seller shall be limited to the purchase price of the product. Any disputes will be settled via arbitration in accordance with purchase details on your invoice.

NSF

Certified to NSF/ANSI 60

Maximum use for potable water: 35 mg/L

(05/10-1)