



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAY 30 2013

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Dee Wilson
Clearwater International, LLC
D/B/A Weatherford Engineered Chemistry
2000 St. James Place
Houston, Texas 77056

Subject:

Product Name: BIO CLEAR 5000

EPA Registration Number: 59106-7 Application Date: February 11, 2013 Receipt Date: March 4, 2013

Dear Ms. Wilson:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA), as amended, is acceptable.

Proposed Amendment

Updating Label Deleting Uses from Generic DCI:

Once-Through Applications
Metal Working Fluids
Paints and Coatings
Household/Institutional Cleaners/Detergents, etc.

General Comments

A stamped label is enclosed for your records.

Submit 3 copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at campbell.jacqueline@epa.gov or Stacey Grigsby by telephone at (703) 308-6440 or by email at grigsby.stacey@epa.gov. When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission in order to facilitate processing.

Jacqueline Hardy

Product Manager 34

Regulatory Management Branch II Antimicrobials Division (7510P)

Enclosure: stamped label



Weatherford

BIO CLEAR® 5000

treatment works. Reduces microbial contamination in non-food contact process water, non-food contact raw materials and formulated and industrial products that will not come in direct or indirect contact with food. Reduces microbial contamination in wastewater, recycled process Controls bacteria, fungi and yeasts in enhanced oil recovery systems; controls bacteria, fungi, and afgae in industrial recirculating water cooling towers and reverse osmosis systems; controls slimeforming bacteria and fungi in air-washer systems, controls coliform and bacteria in publicly-owned water, recycled products, recycled wastewater and equipment cleaning operations.

FOR INDUSTRIAL USE ONLY

2-2-Dibromo-3-nitrilopropionamide Other Ingredients.. ctive Ingredients:

KEEP OUT OF REACH OF CHILDREN DANGER



NET WEIGHT:

POUND(S)

Batch code:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS PRECAUTIONARY STATEMENTS

DANGER. Corrisive. Causes irreversible eye damage. Causes skin burns. Harmful if gum, using tobacco or using the toilet. Remove and wash contaminated clothing swallowed or absorbed through skin. Harmful if inhaled, Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing

PERSONAL PROTECTIVE EQUIPMENT

coveralls over, long-sleeved shirt and long pants Applicators and other handlers must wear socks and chemical resistant footwear

goggles or face shields

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USER SAFETY REQUIREMENTS

remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean of soft of the closers revest remove 8 PF Egmegdiadely after handling this product. Wash the outside of the Users must wash hands before eating, drinking, chewing gum or using the toilet. Users must gloves before reဂြဲပ်virig. As Soon a9 possible vash thoroughly.

FIRST AID 0000

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 30 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing
- Call a poison control center or doctor for treatment advice. IF ON SKIN OR CLOTHING:
 - Take off contaminated clothing.

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- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor 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 the poison control center or doctor.
 - Do not give anything by mouth to an unconscious person.
 - Move person to fresh air. IF INHALED:
- 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 further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific Time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

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

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EPA Reg. No.

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ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) label. Do not contaminate water by cleaning of equipment, or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless 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.

PHYSICAL AND CHEMICAL HAZARDS

Incompatible with potassium permanganate and powdered iron.

DIRECTIONS FOR USE

Do not apply this product directly in a way that will contact workers or other persons.

GENERAL PRECATIONS AND RESTRICTIONS

NOTE: Add BIO-CLEAR 5000 separately to the system. Do not mix it with other additives, in order to avoid decomposition of BIO-CLEAR 5000 due to the high pH of many additive formulations. It is a violation of Federal Law to use this product in a manner inconsistent with the labeling.

ENHANCED OIL RECOVERY SYSTEM

320 ppm **BIO-CLEAR 5000** (0.4-28.6 gal of **BIO-CLEAR 5000** per 2400 barrels of water) depending For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems add 4on the severity of contamination. Additions must be made with a metering pump either

degree of control is achieved. Subsequently, treat with 4-60 ppm BIO-CLEAR 5000 (0.4-5.4 gal of CONTINUOUS FEED METHOD: When the system is noticeably fouled, add 40-320 ppm BIO-CLEAR 5000 (3.6-28.6 gal of BIO-CLEAR 5000 per 2400 barrels of water) continuously until the desired BIO-CLEAR 5000 per 2400 barrels of water) continuously or as needed to maintain control.

INYERMITTENT OR SLUG METHOD: When the system is noticeably fouled, or to maintain control of the system, add 40-320 ppm BIO-CLEAR 5000 (3.6-28.6 gal of BIO-CLEAR 5000 per 2400 barrels of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending on the severity of the contamination. Addition of **810-CLEAR 5000** may be made at the free water knockouts, before or after the injection pumps and injection well headers.

NOTE: FOR CONTROL OF BACTERIA, YEAST AND FUNGI IN AQUEOUS SOLUTIONS OF BIPOLYMER USED IN FLOODING OPERATIONS, add 60-320 ppm BIO-CLEAR 5000 (5.4-28.6 gal of BIO-CLEAR 5000 per 2400 barrels of water). Additions of BIO-CLEAR 5000 must be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

contamination when the treatment has begun, and the retention time of the system. Optimum with a metering pump; it can be continuous or intermittent, depending on the severity of the performance with this product is attained by continuous or intermittent treatment. If "shock" Add BIO-CLEAR 5000 to the basin (or any other point of uniform mixing). Additions mu treatment is used, the blowdown must be discontinued for 24-48 hours.

Badly fouled systems must be cleaned before treatment has begun.

FOR CONTROL OF BACTERIA

Add 0.0038-0.038 gal of **810-CLEAR 5000** per 1,000 gal of water in the system, depending on the severity of the contamination.

INTERMITTENT OR SLUG METHOD:

INITIAL DOSE: When the system is noticeably fouled, add 0.019-0.038 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident add 0.0095-0.038 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system every 4 days, or as needed to maintain control.

INITIAL DOSE: When the system is noticeable fouled, add 0.019-0.038 gal of BIO-CLEAR 5000 per 1,000 gal of water to the system. CONTINUOUS FEED METHOD:

SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0038-0.019 gal of 810-CLEAR 5000 per 1,000 gal of water in the system per day.

Add 0.116-0.360 gal of **BIO-CLEAR 5000** per 1,000 gal of water in the system depending on the FOR CONTROL OF FUNGI AND ALGAE

severity of contamination.

INITIAL DOSE: When the system is noticeably fouled, add 0.192-0.380 gal of BIO-CLEAF INTERMITTENT OR SLUG METHOD:

SUBSEQUENT DOSE: When microbial control is evident add 0.116-0.380 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system, or as needed to maintain control.

1,000 gal of water in the system. Repeat until control is achieved.

CONTINUOUS FEED METHOD:

INITIAL DOSE: When the system is noticeably fouled, add 0.192-0.380 gai of BIO-CLEAR 5000 per 1,000 gal of water to the system. SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.116-0.380 gal of 810-CLEAR 5000 per 1,000 gal of water in the system per day.

REVERSE OSMOSIS SYSTEMS

(reverse osmosis, ultrafiltration, microfiltration). Acceptable applications include reverse osmosis for the production of boiler makeup water, rinsing of electric components, and industrial wastewater treatment. BIO-CLEAR 5000 must be fed continuously to the membrane system feed 88.0 fl. Oz./1,000 gallons) to the off-line cleaning feed tank and re-circulate for 30 minutes to 3 hours. Frequency of addition must be every 5 days or as needed. Note: for industrial systems in which BIO-CLEAR 5000 residuals cannot be tolerated, BIO-CLEAR 5000 must be slug fed. During water at a rate of 10-100 ppm BIO-CLEAR 5000 (5.2-52.0 fl. Oz./1,000 gallons or 1.5 to 15 ml/min per 10 ppm of feed water). For off-line system disinfection, add 50-170 ppm BIO-CLEAR 5000 (26and for 30 minutes to 1 hour following chemical addition, permeate and concentrate streams must BIO-CLEAR 5000 is used to control bacteria and reduce biofouling in industrial membrane system be diverted to waste.

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Add 0.0078-0.250 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system, depending on the severity of contamination to control slime-forming bacteria and fungi in industrial air-washer

Badly fouled systems must be cleaned before treatment has begun

INITIAL DOSE: When the system is noticeably fouled, add 0.156-0.250 gal of BIO-CLEAR 5000 per INTERMITTENT OR SLUG METHOD

SUBSEQUENT DOSE: When microbial control is evident add 0.00785-0.125 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system every 2 days or as needed to maintain control. 1,000 gal of water in the system. Repeat until control is achieved.

NITIAL DOSE: When the system is noticeably fouled, add 0.156-0.250 gal of BIO-CLEAR 5000 per 1,000 gal of water to the system. CONTINUOUS FEED METHOD

UBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.0078-0.125 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system per day. Note: For use only in industrial airvasher systems that maintain effective mist eliminating components.

HYDROTESTING

Water used to hydrotest pipelines or vessels must contain 100-1,000 ppm of **BIO-CLEAR 5000** per 1,000 gallons of water (0.4 to 4 gallon of **BIO-CLEAR 5000** per 1,000 gallons of water) depending on water quality and length of time the equipment will remain idle.

PUBLICLY-OWNED TREATMENT WORKS

TO CONTROL COLIFORM OR BACTERIA

depending on the severity and contamination in the system. Addition must be continuous and made with a metering pump at a point in the system where mixing will be rapid and thorough. Add MO-CLEAR 5000 to the system in a location where contact time will be 30 minutes or greater 4dd BIO-CLEAR 5000 at a concentration of 1.0 to 10.0 ppm by weight of water being treated,

TO USE AS A CO-TREATMENT WITH CHLORINE Add 0.4-1.5 ppm BIO-CLEAR 5000 by weight of water treated. Chlorination must result in a minimum detectable residual (i.e., greater than zero but less than the VPDES permit level). Addition must be continuous and made at a point just after initial chlorine nixing. Rapid mixing is necessary for maximum effectiveness. BIO-CLEAR 5000 must be added at a ocation where a contact time of 10 minutes or longer will be provided before reaching the outfall

PROCESS, PRODUCT, WASTEWATER & RECYCLE CLEANUP

IIO-CLEAR 5000 is used to reduce microbial contamination in process water and raw materials during the formulating phase or it can be added directly to the final formulation product to reduce nicrobial contamination prior to packaging. 810-CLEAR 5000 may also be used for treatment of wastewater. The required concentration will depend upon the material being treated and the contamination load. Organic load, pH exposure to load and time are matrix effects that impact efficacy of the biocide. You will need to determine the optimum level to use for your system or product within the guidelines given below. Do not use at greater than recommended levels. Must nix thoroughly.

RECYCLE PRODUCT CLEANUP & RECYCLE WASTEWATER

810-CLEAR 5000 is not intended for use in products that will come in direct or indirect contact with

SIO-CLEAR 5000 may be added to recycle process water, a recycle product stream or added to a recycle wastewater stream to reduce microbial contamination. Add at a convenient point of uniform mixing. This can be either continuous feed directly into a transfer line or slug fed to the storage container for either wash water or product. Add 12 to 1,000 ppm by weight. This concentration is equivalent to 152 to 1,212 ml (5.12 to 40.8 Juid oz.) BIO-CLEAR 5000 per 100 allons to be treated.

NON-FOOD CONTACT INDUSTRIAL PROCESSES & NON-FOOD CONTACT PRODUCTS

Process Water and Raw Material Clean Up

To reduce microbial contamination in process water or raw material used to make industrial products, add BIO-CLEAR 5000 directly to the process water or raw material at a concentration of 125 to 2,000 ppm by weight. This includes raw materials and/or products such as polymers,

To clean up microbial contamination in a final formulated industrial product, add 125-500 ppm by weight BIO-CLEAR 5000 directly to the product prior to packaging.

INDUSTRIAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP &

SIO-CLEAR 5000 may be added to recycle process water, a recycle product stream or added to a ecycle wastewater stream to reduce microbial contamination. Add at a convenient point of uniform mixing. This can be either continuous feed directly into a transfer line or slug fed to the storage container for either wash water or product. Add 125 to 2,000 ppm by weight. This concentration of equivalent to 152th 2,424 ml (5 th 81.6 floid oz.) BIO-CLEAR 5000 per 100 gallons 0 to be treated.

INDUSTRICAL WASTOWATER CYSTEMS

BIO-CLEAR 5000 must be added to a wastewater system or sludge at a convenient point of WASTEWATER SYSTEMS, WASTEWATER SLUDGS AND WASTEWATER HOLDING TANKS

uniform mixing such as the digester. Add 125-2,000 ppm by weight. This concentration is

equivalent to 1,512,24,216, gilliliters 8JQ5CLEAR 5000 (51,2-818.8 fl. oz.) per 1,000 gallons of 000

water.

TANKSIDE ADDIJIQN TO ELECTRODEPOSITICANSYSTEMS

BIO-CLEAR 5000 may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. BIO-CLEAR 5000 must be added into the recirculating rinse system at a point to insure uniform mixing. Add 125 to 2,000 ppm by weight. This concentration is equivalent to 1,512-24,216 milliliters of BIO-CLEAR 5000 (51.2-818.8 R oz.) per 1,000 gallons of water.

EQUIPMENT CLEANING

BIO-CLEAR 5000 can be used to kill microorganisms present in solution or growing on the surfaces of process equipment. For standard cleaning of equipment, add 50 to 250 ppm by weight of BIO-CLEAR 5000 in an aqueous solution, to process piping or equipment. Heavily fouled solutions or equipment must be treated with up to 2,000 ppm of BIO-CLEAR 5000. After treating process equipment with BIO-CLEAR 5000, allow the BIO-CLEAR 5000 solution to be in contact with surfaces for up to four hours. If bieach is being used for cleaning purposes at 50 to 250 available chiorine, BIO-CLEAR 5000 can be used as part of a dual treatment program at 50 to 100 ppm by weight, in combination with sodium hypochlorite. Treat process equipment with chlorine first. Follow the treatment with BIO-CLEAR 5000. Do not combine concentrated sodium hypochlorite solution with BIO-CLEAR 5000.

PESTICIDE STORAGE AND DISPOSAL

Pesticide Storage: To maintain product quality, store at temperatures below 60°C. Keep Do not contaminate water, food or feed by storage or disposal. container tightly closed when not in use.

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 Pesticide Disposal: Pesticide wastes are acutely hazardous, Improper disposal of excess Regional Office for guidance.

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for récycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local Spills: When handling or dealing with spills, wear protective clothing as indicated in the Personal Protective Equipment section. Cover wet spills with 10% sodium bicarbonate solution, water and then an inert absorpent before sweeping up and disposing as descabed drum in the open or in a well-ventilated area. Flood with 10% sodium bicarbonate $eals_k$ for pesticide disposal. If drum contents are contaminated or decomposing, isolate and large volume of water, if necessary.

Corrosive Liquid, Acidic, Organic, N.O.S. (2,2-dibromo-3-nitrilopropionamide) 8,

UN3265, PG III

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