

59106-1

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

MAY 16 2013

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Dee Wilson
Regulatory Affairs
Weatherford Engineered Chemistry
100 Leetsdale, PA 15056

Subject: Bio Clear 1000
EPA Registration No.: 59106-1
Application Date: 2/11/2013
Receipt Date: 3/4/2013

Dear Ms. Wilson:

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable.

Proposed Amendment

- Addition of recirculating cooling water application
- Removing "once-through" applications, metal-working fluids, references to paints and coatings, and household/institutional cleaners/detergents

General Comments

A stamped label is enclosed for your records. Submit three (3) copies of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, you may contact me by telephone at (703) 308-6416 or by e-mail at campbell.jacqueline@epa.gov or Jaclyn Pyne by telephone at (703) 347-0213 or by e-mail at pyne.jaclyn@epa.gov. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

Jacqueline Campbell
Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510P)

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

IRGERS. Corrosive. Causes irreversible eye damage. May be fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes, or on clothing. Do not breathe the dust. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear dust/mist filtering respirator with SHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with N, R, P or HE filter. Wear goggles or face shield and protective clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARD

Pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, estuaries, oceans or other water unless in accordance with the requirements of a National Clean 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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store in a dark, cool dry, well-ventilated area, not above 40°C, in well-closed original containers, away from energy sources, combustible organic materials, oxidizers and other combustibles. When handling, or dealing with spills, use impact-resistant goggles with side shields, or face shield; wear body-covering clothes, including impervious rubber gloves and boots; use a dust respirator.

SPILLAGE 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: Plastic Pail: Non-Refillable Container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, puncture and dispose in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning, if burned, stay out of smoke. Dispose of the empty mylar bag in the trash as long as the water soluble packet is unbroken.

LIQUIDS: Cover wet spills with 10% sodium bicarbonate solution, water and then add an inert absorbent before sweeping up and disposing as described for pesticide disposal. If drum contents are contaminated or decomposing, isolate unsealed drum in the open or in a well-ventilated area; flood with 10% sodium bicarbonate solution and large volume of water, if necessary.

WARRANTY

Warranties that the product conforms to its chemical description and is reasonably fit for the uses stated on this label when used in accordance with the directions under normal conditions. Use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product in any manner not recommended on the label, or under abnormal conditions, or under not reasonably foreseeable conditions, and buyer assumes the risk of any such use.

ACCEPTED

NET CONTENTS
MAY 6 2013

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 59106-1

Revision Date 8/05/2009; Pg 1



Weatherford®

BIO CLEAR® 1000

A MICROBIAL BACTERICIDE, FUNGICIDE, ALGAEKIL AND SLIMEKIL IN TREATING NON-MARINE, OILFIELD DRILLING AND RECOVERY APPLICATIONS

ACTIVE INGREDIENT:

- 2, 2-Dibromo-3-nitropropionamide..... 98%
- Inert ingredients..... 2%
- TOTAL..... 100%

**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 five minutes, then continue rinsing.
 - Call a poison control center or doctor for treatment advice.
 - 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 further 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.
 - 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.
- HOT LINE NUMBER**
- 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, 630 AM to 4:30 PM Pacific Time (PT), seven days a week. During other times, call the poison control center 1-800-222-3222.

EPA Reg. No.: 59106-1

EPA Est. No.: 59106-PA-001

LBS./KG.

Manufactured [by] (for):
Clearwater International, LLC
A Weatherford Engineered Chemistry
2000 St. James Place
Houston, TX 77056

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling. BIO-CLEAR® 1000 is packaged in 1 pound water soluble bags, which are enclosed in outer protective mylar bags. For application of product, simply open the mylar bag, remove the inner package, and apply the product in accordance with the prescribed dose rate. Ensure the use of proper personal protective equipment prior to handling this product.

NON-MARINE ENHANCED OIL RECOVERY SYSTEMS

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 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons of water) depending on the severity of contamination.

CONTINUOUS FEED METHOD: When the system is noticeably fouled, add 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons of water) continuously until the desired degree of control is achieved. Subsequently, treat with 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons of water) continuously or as needed to maintain control.

INTERMITTENT OR SLUG METHOD: When the system is noticeably fouled, or to maintain control of the system, add 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons 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 BIO-CLEAR® 1000 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 biopolymer used in flooding operations, add 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons of water)

COMPLETION AND WORKOVER FLUIDS

Add BIO-CLEAR® 1000 antimicrobial to a completion and workover fluid at a point of uniform mixing such as a circulating tank. Add antimicrobial 6-54 ppm (1-9 pounds per 476 barrels or 20,000 gallons of water) to freshly prepared fluid depending on the severity of the contamination. Circulate the workover fluid system until the fluid returns clear, shut the system down and idle for several hours. Remove the workover fluid. The well should be ready for productive use

DRILLING MUDS

Add BIO-CLEAR® 1000 antimicrobial to a drilling fluid system at a point of uniform mixing such as the circulating mud tank. **INITIAL TREATMENT:** Add 6-54 ppm (1-9 pounds per 476 barrels or 20,000 gallons of water) to freshly prepared drilling fluid depending on the severity of contamination. **MAINTAIN DOSSAGE:** As the total volume of the system increases due to increased well depths, maintain 6-54 ppm level by adding 1-9 pounds per 476 barrels or 20,000 gallons of fluid, or as needed, depending on the severity of contamination

PACKER FLUIDS

Add BIO-CLEAR® 1000 antimicrobial to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 6-54 ppm antimicrobial (1-9 pounds per 476 barrels or 20,000 gallons of water) to freshly prepared drilling fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube

WATER FLOODS

Add BIO-CLEAR® 1000 to a flood water system at a point of uniform mixing such as the area of addition to make up water to the holding tank. **INITIAL TREATMENT:** When the system is noticeably contaminated, add 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons of water). Repeat until control is achieved. **SUBSEQUENT DOSE:** When microbial control is evident, add 6-54 ppm BIO-CLEAR® 1000 (1-9 pounds per 476 barrels or 20,000 gallons of flood water) weekly, or as needed to maintain control.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add BIO-CLEAR® 1000 to the basin (or any other point of uniform mixing). Additions must be made with a metering pump; it can be continuous or intermittent, depending on the severity of the contamination when the treatment has begun, and the retention time of the system. Optimum performance with this product is obtained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown must be discontinued for 24-48 hours.

FOR CONTROL OF BACTERIA

Add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 0.2-2.3 ppm active ingredient, depending on the severity of contamination.

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DOT / TDG / IMDG
Proper Shipping Name:
Toxic Solid, Organic, N.O.S.
Class 6.1, UN2811, PG III

For Emergency Information:
Call TOLL FREE:
1-800-424-9300 (CHEMTREC)

KEEP CONTAINER TIGHTLY CLOSED WHEN IN USE

DO NOT SHIP WITH FOOD, FEEDS, DRUGS

KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE

TO MAINTAIN PRODUCT QUALITY, STORE IN THE DARK
AT TEMPERATURES BELOW 40°C

For Questions, please contact:
CLEARWATER INTERNATIONAL, LLC
(724) 318-1050

For Control of Bacteria: INITIAL DOSE: When the system is noticeably fouled, add sufficient BIO-CLEAR® 1000 to achieve a concentration in the system of 1.2-2.4 ppm active ingredient in the feedwater. Minimum treatment intervals must be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer. SUBSEQUENT DOSE: When microbial control is achieved, maintain a concentration of 0.6-2.4 ppm of BIO-CLEAR® 1000 in the feedwater, or as specified by guidelines recommended by the membrane manufacturer.

For Control of Fungi and Algae: INITIAL DOSE: When the system is noticeably fouled, add 12.0-24.0 ppm BIO-CLEAR® 1000 to the feedwater. Minimum treatment intervals must be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer. SUBSEQUENT DOSE: When microbial control is achieved, maintain a concentration of 7.2-24.0 ppm of BIO-CLEAR® 1000 in the feedwater, or as specified by guidelines recommended by the membrane manufacturer.

HYDROTESTING

For Control of Bacteria: Water used to hydrotest pipelines or vessels must contain 100-1,000 ppm of BIO-CLEAR® 1000 per 1,000 gallons of water depending on water quality and length of time the equipment will remain idle.

PROCESS, PRODUCT, WASTEWATER & RECYCLE CLEANUP

BIO-CLEAR® 1000 is used to reduce microbial contamination in process water and raw materials BIO-CLEAR® 1000 may also be used for treatment of wastewater. The required concentration will depend upon the material being treated and the contamination load. 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.

Recycle Product Cleanup & Recycle Wastewater:

BIO-CLEAR® 1000 is not intended for use in products that will come in direct or indirect contact with food.

BIO-CLEAR® 1000 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 5-406 ppm by weight.

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® 1000 directly to the process water or raw material at a concentration of 5-406 ppm by weight. This includes raw materials and/or products such as polymers, slurries, adhesives, latex and resin emulsions and surfactant.

Direct Product Addition

To clean up microbial contamination in a final formulated industrial product, add 5-406 ppm by weight BIO-CLEAR® 1000 directly to the product prior to packaging.

Industrial Recycle Water, Recycle Product Clean Up & Recycle Wastewater:

BIO-CLEAR® 1000 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 5-406 ppm by weight. Must mix thoroughly.

INDUSTRIAL WASTEWATER SYSTEMS

Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks:

BIO-CLEAR® 1000 must be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 5-406 ppm by weight

Tankside Additions to Electrodeposition Systems:

BIO-CLEAR® 1000 may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. BIO-CLEAR® 1000 must be added into the recirculating rinse system at a point to insure uniform mixing. Add 5-406 ppm by weight.

EQUIPMENT CLEANING

BIO-CLEAR® 1000 can be used to kill microorganisms present in solution or growing on the surfaces of process equipment such as reaction vessels, storage tanks and containers, piping and hoses. For standard cleaning of equipment, add 50 to 250 ppm by weight of BIO-CLEAR® 1000 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® 1000. After treating process equipment with BIO-CLEAR® 1000, allow the BIO-CLEAR® 1000 solution to be in contact with surfaces for up to four hours.

If bleach is being used for cleaning purposes at 50 to 250 available chlorine, BIO-CLEAR® 1000 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® 1000. Do not combine concentrated sodium hypochlorite solution with BIO-CLEAR® 1000.

INTERMITTENT OR SLUG METHOD: INITIAL DOSE: When the system is noticeably fouled, add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 1.2-2.3 ppm active ingredient. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add 0.6-2.3 ppm BIO-CLEAR® 1000 to the system every 4 days, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD: INITIAL DOSE: When the system is noticeable fouled, add sufficient BIO-CLEAR® 1000 to achieve a concentration in the system of 1.2-2.3 ppm. SUBSEQUENT DOSE: Maintain a concentration of 0.2-1.2 ppm BIO-CLEAR® 1000 in the system.

Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add sufficient BIO-CLEAR® 1000 to achieve a concentration in the system of 7.0-23.0 ppm active ingredient, depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD: INITIAL DOSE: When the system is noticeably fouled, add sufficient BIO-CLEAR® 1000 to achieve a concentration in the system of 11.6-23.0 ppm active ingredient. Maintain until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add sufficient BIO-CLEAR® 1000 daily to maintain a concentration in the system of 7.0-23.0 ppm active ingredient, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD: INITIAL DOSE: When the system is noticeably fouled, add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 11.6-23.0 ppm active ingredient. SUBSEQUENT DOSE: Maintain a continuous feed of 7.0-23.0 ppm BIO-CLEAR® 1000 in the system.

Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 0.35-22.1 ppm active ingredient, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air-washing systems.

INTERMITTENT OR SLUG METHOD: INITIAL DOSE: When the system is noticeably fouled, add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 0.7-22.1 ppm active ingredient. Repeat until control is achieved. SUBSEQUENT DOSE: When microbial control is evident, add sufficient BIO-CLEAR® 1000 every two days to reach a concentration in the system of 0.35-10.8 ppm active ingredient, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

Badly fouled systems must be cleaned before treatment has begun.

CONTINUOUS FEED METHOD: INITIAL DOSE: When the system is noticeably fouled, add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 0.7-22.1 ppm active ingredient. SUBSEQUENT DOSE: Maintain this level by pumping a continuous feed of 0.35-10.9 ppm active ingredient in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

NOTE: For use only in industrial air-washing systems that maintain effective mist eliminating components.

PUBLICLY-OWNED TREATMENT WORKS

To control coliform and other bacteria, add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 0.2-2.0 ppm active ingredient by weight of water being treated, 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 BIO-CLEAR® 1000 to a system in a location where contact time will be 30 minutes or greater before reaching the effluent.

To Use as Co-Treatment with Chlorine: Add sufficient BIO-CLEAR® 1000 to reach a concentration in the system of 0.1-0.3 ppm BIO-CLEAR® 1000 active ingredient by weight of water treated. Chlorination must result in a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level). Addition must be continuous and be made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. BIO-CLEAR® 1000 must be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.

REVERSE OSMOSIS SYSTEMS

For controlling bacteria, fungi, and algae in non-potable reverse osmosis systems and peripheral equipment, add BIO-CLEAR® 1000 to the system inlet water or before any other contamination area ahead of the reverse osmosis unit. BIO-CLEAR® 1000 must be added with a metering pump on an intermittent basis depending on the severity of contamination and the guidelines specified by the membrane manufacturer for bioclean. Add sufficient BIO-CLEAR® 1000 to achieve a concentration of 0.2-24.0 ppm in the feedwater. During use of BIO-CLEAR® 1000 both permeate and reject waters must be directed to the drain. Once treatment is completed, rinsing the feedwater must continue until conductivity values in the permeate are at or below values before treatment with BIO-CLEAR® 1000. Badly fouled systems must be cleaned before treatment is begun.