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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

SEP 17 2014

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Lara Leur, Global Regulatory Affairs Manager
Weatherford
2000 St. James Place
Houston, TX 77056

Notification Dated: August 18, 2014
Notification Pin Punch: August 25, 2014
Product Name: Bio-Clear 5000
EPA Registration Number: 59106-7

Dear Ms. Leur:

This acknowledges receipt of your Notification submitted in accordance with the provisions of PR Notice 98-10 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)9.

Proposed Notification

Additional Storage and Disposal instructions under Container Handling of Refillable Container.

General Comments

Based on a review of the material submitted, the notification is acceptable.

If you have questions concerning this letter, please contact Tom Luminello by telephone, (703) 308-8075, or by e-mail at luminello.tom@epa.gov.

Sincerely,

for Tom Luminello
Jacqueline Hardy
Product Manager 34
Regulatory Management Branch II

Antimicrobials Division (7510-P)



Weatherford®

BIO CLEAR® 5000

Controls bacteria, fungi and yeasts in enhanced oil recovery systems; controls bacteria, fungi, and algae in industrial recirculating water cooling towers and reverse osmosis systems; controls slime-forming bacteria and fungi in air-washer systems; controls coliform and bacteria in publicly-owned 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 water, recycled products, recycled wastewater and equipment cleaning operations.

FOR INDUSTRIAL USE ONLY

Active Ingredients:	
2,2-Dibromo-3-nitropropionamide.....	5%
Other Ingredients.....	95%
Total.....	100%

KEEP OUT OF REACH OF CHILDREN

DANGER

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

EPA Reg. No.: 59106-7 EPA Est. No.: 059106-PA-001

NET WEIGHT: _____ POUND(S)

Batch code:

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER. Corrosive. Causes irreversible eye damage, causes skin burns. Harmful if 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 gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear coveralls over, long-sleeved shirt and long pants; socks and chemical resistant footwear; goggles or face shields; chemical resistant gloves (such as barrier laminate, butyl rubber, polyvinyl chloride or Viton) for mixing/loading; wear a chemical resistant apron. Follow manufacturers' instructions for cleaning and maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY REQUIREMENTS

Users must wash hands before eating, drinking, chewing gum or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible wash thoroughly.

FIRST AID

- 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 eye.
- Call a poison control center or doctor 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 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 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.

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 lavage.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this 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 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 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.

GENERAL PRECAUTIONS AND RESTRICTIONS

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

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling. **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.

ENHANCED OIL RECOVERY SYSTEM

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 4-320 ppm BIO-CLEAR 5000 (0.4-28.6 gal of BIO-CLEAR 5000 per 2400 barrels of water) depending on the severity of contamination. Additions must be made with a metering pump either continuously or intermittently.

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 degree of control is achieved. Subsequently, treat with 4-60 ppm BIO-CLEAR 5000 (0.4-5.4 gal of BIO-CLEAR 5000 per 2400 barrels 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 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 BIO-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 BIOPOLYMER 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 viscosity.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add BIO-CLEAR 5000 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 contamination when the treatment has begun, and the retention time of the system. Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" 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 BIO-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.

CONTINUOUS FEED METHOD:

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.

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

FOR CONTROL OF FUNGI AND ALGAE

Add 0.116-0.360 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD:

INITIAL DOSE: When the system is noticeably fouled, add 0.192-0.380 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 0.116-0.380 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system, or as needed to maintain control.

CONTINUOUS FEED METHOD:

INITIAL DOSE: When the system is noticeably fouled, add 0.192-0.380 gal 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 BIO-CLEAR 5000 per 1,000 gal of water in the system per day.

REVERSE OSMOSIS SYSTEMS

BIO-CLEAR 5000 is used to control bacteria and reduce biofouling in industrial membrane 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 water at a rate of 10-100 ppm BIO-CLEAR 5000 (5.2-52.0 fl. Oz./1,000 gallons or 1.6 to 16 ml/min per 10 ppm of feed water). For off-line system disinfection, add 50-170 ppm BIO-CLEAR 5000 (26-88.0 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 and for 30 minutes to 1 hour following chemical addition, permeate and concentrate streams must be diverted to waste.

AIR-WASHING SYSTEMS

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 systems.

Badly fouled systems must be cleaned before treatment has begun.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, add 0.156-0.250 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 0.00785-0.125 gal of BIO-CLEAR 5000 per 1,000 gal of water in the system every 2 days or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL 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.

SUBSEQUENT 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 air-washer systems that maintain effective mist eliminating components.

HYDROTESTING

FOR CONTROL OF BACTERIA

Water used to hydrotest pipelines or vessels must contain 100-1,000 ppm of BIO-CLEAR 5000 per 1/1000 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

Add BIO-CLEAR 5000 at a concentration of 1.0 to 10.0 ppm 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 5000 to the system in a location where contact time will be 30 minutes or greater before reaching the outfall.

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 NPDES permit level). Addition must be continuous and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. BIO-CLEAR 5000 must be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.

PROCESS, PRODUCT, WASTEWATER & RECYCLE CLEANUP

BIO-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 microbial contamination prior to packaging. BIO-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 the efficacy of the biocide. You will need to determine the optimum level to use for your system or process within the guidelines given below. Do not use at greater than recommended levels. Must mix thoroughly.

RECYCLE PRODUCT CLEANUP & RECYCLE WASTEWATER

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

BIO-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 125 to 1,000 ppm by weight. This concentration is equivalent to 152 to 1,212 ml (5.12 to 40.8 fluid oz.) BIO-CLEAR 5000 per 100 gallons 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, slurries, adhesives, latex and resin emulsions and surfactants.
Direct Product Addition
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 &

RECYCLE WASTEWATER

BIO-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 125 to 2,000 ppm by weight. This concentration is equivalent to 152 to 1,212 ml (5 to 81.6 fluid oz.) BIO-CLEAR 5000 per 100 gallons to be treated.

INDUSTRIAL WASTEWATER SYSTEMS

WASTEWATER SYSTEMS, WASTEWATER SLUDGE AND WASTEWATER HOLDING TANKS

BIO-CLEAR 5000 must be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 125-2,000 ppm by weight. This concentration is equivalent to 1,512-24,216 milliliters BIO-CLEAR 5000 (51.2-818.8 fl. oz.) per 1,000 gallons of water.

TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS

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 fl. 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 bleach is being used for cleaning purposes at 50 to 250 available chlorine, 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

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: To maintain product quality, store at temperatures below 60°C. Keep container tightly closed when not in use.

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 Handling:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning 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 container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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 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.

Corrosive Liquid, Acidic, Organic, N.O.S.

(2,2-dibromo-3-nitropropionamide) 8,

UN3265, PG III