



CLEARWATER™
Engineered Chemistry®

BIO CLEAR® 5000

KEEP OUT OF REACH OF CHILDREN

DANGER

EPA Reg. No.: 59106-7
 EPA Est. No.: 59106-PA-001
 NET WEIGHT: 9 lbs, 46 lbs, 505 lbs, 2522 lbs

Manufactured [by][for]:
Clearwater International, LLC
515 Post Oak Blvd., Ste. 600
Houston, TX 77027

Controls bacteria, fungi and yeasts in metalworking fluids containing water, and 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.

FOR INDUSTRIAL USE ONLY

ACTIVE INGREDIENTS:
2, 2-Dibromo-3-Nitrilopropionamide.....5%
Other Ingredients.....95%
Total.....100%

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.

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.

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, nitrile rubber, Neoprene 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 RECOMMENDATIONS

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.

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.

METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios 1:100-1:4.

For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add **BIO-CLEAR 5000** to the fluid in the collection tank. Additions should be made with a metering pump.

INITIAL OR SLUG DOSE: When the system is just noticeably fouled, add 1.1 gal of **BIO-CLEAR 5000** per 1,000 gal of metalworking fluid to the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.44-0.88 gal of **BIO-CLEAR 5000** per 1,000 gal of metal working fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

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 should 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 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** should 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 should be made with a metering pump; it may 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 attained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown should 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 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 noticeably 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 OF 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.

AIR-WASHING SYSTEMS

Add 0.0078-0.250 gal of **BIO-CLEAR 5000** per 1,000 gal of water in the system, depending upon 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.

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 Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse (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.

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.

[Batch Code]