



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

December 22, 2025

Ross Beattie  
Regulatory Manager  
BWA Water Systems  
Electronic Transmittal: [r.beattie@italmatch.com](mailto:r.beattie@italmatch.com)

Subject: Label Amendment: Adding Language for Pulp/Paper Mills, Recirculating Cooling Towers and Once-Through Cooling Systems applications required by Polixetonium Chloride Registration Review Interim Decision  
Product Name: Bellacide 364  
EPA Registration Number: 83451-27  
Received Date: 11/4/2021  
Decision Number: 579528

Dear Mr. Beattie:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Polixetonium Chloride Interim Decision, and has concluded that your submission is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling.

"To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Stephen Savage by phone at 202-566-0616, or via email at [savage.stephen@epa.gov](mailto:savage.stephen@epa.gov).

Sincerely,



Eric Miederhoff  
Chief, Reevaluation Branch  
Antimicrobials Division  
EPA Office of Pesticide Programs

Enclosure: Stamped Label

*{All text in brackets [xxx] is optional and may or may not be included on a final label.}*  
*{All text in braces {xxx} is administrative and will not appear on a final label.}*

## BELLACIDE 364

For use as an algicide, bactericide, fungicide, for the control of algae, slime forming bacteria, sulfate reducing bacteria, and fungi in air-washers and industrial air scrubbing systems, recirculating cooling water and process water systems including cooling towers, evaporative coolers, brewery pasteurizers, can warmers, and hydrostatic sterilizers and retorts, non-food contact paper and paperboard process water (e.g.: brown paper, corrugated sheet, Kraft paper, newsprint, etc.), and enhanced oil recovery systems, oil and gas production and transmission pipelines and systems, gas storage wells and systems, hydrotesting of pipelines and tanks, pipeline pigging and scraping operations and oil and gas well drilling and maintenance fluids.

**ACTIVE INGREDIENT:**

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio) ethylene dichloride] 4.0 %

Poly(iminoimidocarbonyliminoimidocarbonyliminohexamethylene) hydrochloride 2.4%

**OTHER INGREDIENTS:** 93.6 %

**TOTAL:** 100.0%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**ACCEPTED**

**12/22/2025**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 83451-27

**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.
  - 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 INHALED:**
- Move the 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.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

GENERAL INFORMATION: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. [IN CASE OF EMERGENCY, CALL 1-800-424-9300 (CHEMTREC)] [telephone number supplied by supplemental registrant].]

## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS: CAUTION.** Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wear protective eyewear (goggles, face shield, or safety glasses). Wear long-sleeved shirt and long pants, socks, shoes and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco. Remove and wash contaminated clothing before use.

**ENVIRONMENTAL HAZARDS:** This pesticide 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 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.

## DIRECTIONS FOR USE:

**It is a violation of Federal Law to use this product in any manner inconsistent with its labeling.** Read entire label and use strictly in accordance with precautionary statements and directions.

Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, chemical resistant gloves and protective eyewear.

In RECIRCULATING COOLING TOWERS and PULP/PAPER MILLS end use applications, applicators must develop a system management plan for achieving control of fouling with minimum amount of product required. Contact your distributor for assistance in developing a system management plan. The amount of product required will depend on the nature and extent of contamination, quality of the makeup water, and the degree of control required. Badly fouled systems must be cleaned before treatment is begun.

## RECIRCULATING COOLING AND PROCESS WATER SYSTEMS / AIR WASHERS AND INDUSTRIAL AIR SCRUBBING SYSTEMS:

### DOSAGE RATES FOR ABOVE APPLICATIONS.

Initial Dose: When the system is noticeably fouled, add 20 to 60 parts per million of product to water contained in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 10 to 30 parts per million of product to water contained in the system. Repeat as needed to maintain control.

Heavily fouled systems must be cleaned before treatment is begun.

When used as directed, this product effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, heat exchange water systems, evaporative coolers, dairy sweetwater systems, industrial process water systems, brewery pasteurizers, can warmers, hydrostatic sterilizers and retorts, air washing systems equipped with a mist eliminator, and industrial air scrubbing systems. Add this product at a point of uniform mixing such as the basin area.

[DAIRY SWEETWATER SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA.]

[BREWERY PASTEURIZERS, CAN WARMERS, HYDROSTATIC STERILIZERS OR RETORTS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[AIR-WASHER OR AIR SCRUBBER SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

## **PULP, PAPER, AND PAPERBOARD MILLS:**

### **DOSAGE RATES.**

Initial Dose: When the system is noticeably fouled, add 250 to 1500 parts per million of product (dry basis) to pulp or paper as a slug dose. Repeat until control is achieved. Heavily fouled systems must be cleaned before initial treatment.

Subsequent Dose: When biological control is evident, add 150 to 1000 parts per million of product (dry basis) to pulp or paper as a slug dose as necessary to maintain control.

THIS PRODUCT IS ONLY FOR USE IN NON-FOOD APPLICATION, such as Brown Paper Mills, Sheet for Corrugated Board, Kraft Paper, Newsprint and similar paper/paperboard not intended for food contact uses. When used as directed this product effectively controls bacterial and fungal slimes in pulp, paper, and paperboard mill process water systems including white water systems. Treat water at critical areas in the system where mixing of the product will be uniform such as beaters, furnish chest, whitewater tank, save-all, and broke chest. The frequency and duration of the treatment will depend upon the severity of the problem.

[PULP, PAPER AND PAPERBOARD APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

## **ENHANCED OIL RECOVERY SYSTEMS:**

### **DOSAGE RATES FOR ENHANCED OIL RECOVERY SYSTEMS.**

When the system is noticeably fouled, or to maintain control in the system, add 20 to 1000 parts per million of product into water as a slug dose for 1-8 hours per day, 1-4 times per week.

NOT FOR USE IN ESTUARINE OR MARINE OIL RECOVERY SYSTEMS. When used as directed this product effectively controls slime-forming and sulfate-reducing bacteria in injection and produced water systems, water disposal systems, and other oilfield water systems. Treat water at critical points in the system such as water or oil storage tanks, surge tanks, oil-water separators, before or after injection pumps, and injection well headers.

## **OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**

This product must be added at a point in the pipeline where uniform mixing will occur. The application must be conducted to ensure maximum distribution of the product through the entire internal surface of the pipeline. Follow dosing instructions for enhanced oil recovery systems.

## **GAS STORAGE WELLS AND SYSTEMS**

Individual injection wells must be treated with a sufficient quantity of product to produce a concentration of 20 to 1000 ppm of product when diluted by the water present in the formation. Injections must be repeated as needed to maintain control.

Individual drips must be treated with a sufficient quantity of product to produce a concentration of 20 to 1000 ppm of product when diluted by the water present in the drips. Injections must be repeated as needed to maintain control.

## **HYDROTESTING**

Water used to hydrotest pipelines or vessels must contain 20 to 1000 ppm of product, depending on water quality and length of time the equipment will remain idle.

## **PIPELINE PIGGING AND SCRAPING OPERATIONS**

Add the product to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig).

Sufficient product must be added to produce a concentration of 20 to 1000 ppm of product in the water at the discharge point or pig trap depending on the length of the pipeline and the severity of biofouling.

## **DRILLING, PACKER, COMPLETION, WORKOVER FLUIDS**

The product must be added to these fluids at a point where uniform mixing will occur. Add 20 to 1000 ppm of product to a freshly prepared fluid depending on the severity of the contamination.

## **FRACTURING FLUIDS**

This product reduces bacterial contamination and degradation of fracturing gels and fluids used as well stimulants in the oil and gas industry. This product may be added during pre-mixing of the fracturing fluid or (in the case of direct mix/injection systems) an aqueous solution may be added by direct injection at the head during the fracturing procedure.

**FREQUENCY AND DOSE:** This product must be used for each fracturing operation to ensure best results. This product must be added at a rate of 20 to 1000 ppm, depending on the quality of the makeup water.

[ENHANCED OIL RECOVERY SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[GAS STORAGE WELLS AND SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[HYDROTESTING APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[PIPELINE PIGGING AND SCAPING APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[DRILLING, PACKER, COMPLETION, WORKOVER FLUIDS APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[FRACTURING FLUIDS APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

## **[FIRE PROTECTION SYSTEMS**

This product is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems.

This product must be added to a fire protection system using a chemical metering pump capable of variable pump rates. The product must be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 10-60 ppm of product (0.64-3.84 ppm active ingredient) depending on severity of microbial contamination in the system. Repeat as needed.]

[FIRE PROTECTION SYSTEMS ARE NOT REGISTERED FOR USE IN CALIFORNIA.]

## STORAGE AND DISPOSAL:

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

**PESTICIDE STORAGE:** Keep product dry and store in a cool dry well-ventilated area away from heat or open flame. Store in original container.

**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.

*{Text for non-refillable containers}*

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. If not, puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Triple rinse container (or equivalent) promptly after emptying.

*{For containers of 5 gallons or less}* [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  $\frac{1}{4}$  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.]

*{For containers with capacities of greater than 5 gallons}* [Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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. Turn the container over onto its other 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.]

*{Text for refillable containers}*

**CONTAINER DISPOSAL:** 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 the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.



NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.

Manufactured for:

BWA Water Additives US LLC

– A Company of Italmatch Chemicals Group

5544 Oakdale Road SE

Smyrna, GEORGIA 30082

EPA REG. # 83451-27

EPA EST. # [xxxx-  
ss-bb]

NET WEIGHT: ## lbs (##kg)

[NET VOLUME: ### gallons (### liters)]