



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 14, 2018

Marcia Croce  
Regulatory Affairs Specialist  
LANXESS Corporation  
111 RIDC Park West Drive  
Pittsburgh, PA 15275

Subject: Label Amendment – Remove redundant language and correct grammatical errors  
Product Name: BIOCHEK 410  
EPA Registration Number: 39967-39  
Application Date: January 5, 2018  
Decision Number: 538164

Dear Ms. Croce:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, 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.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. 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 18 months from the date of this letter. After 18 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 the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. 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. 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

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with FIFRA section 6. If you have any questions, you may contact Joe Daniels at (703) 347-8669 or via email at [daniels.joseph@epa.gov](mailto:daniels.joseph@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Zeno Bain', written over a horizontal line.

for

Zeno Bain, Product Manager 33  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

# BIOCHEK® 410

AN INDUSTRIAL PRESERVATIVE TO INHIBIT THE GROWTH OF BACTERIA, FUNGI AND YEASTS IN AQUEOUS PAINTS, LATEX EMULSIONS, METALWORKING FLUIDS, PIGMENT SLURRIES, JOINT CEMENTS, HOUSEHOLD PRODUCTS AND PRINTING FLUIDS

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER. CORROSIVE.** Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. 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 reaction in some individuals. Remove contaminated clothing and wash before reuse.

Handlers must wear: Long-sleeved shirt and long pants; socks and shoes; goggles or face shield; Chemical resistant gloves (such as rubber or any waterproof material); and either a respirator with an organic vapor (OV) cartridge, or a canister with any N, P, R or HE prefilter or a dust/mist filtering respirator (NIOSH) approval number prefix TC-21 or a NIOSH approved respirator with any N, P, R or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

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

## ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Do not mix with or store near oxidizing agents

EPA Reg. No.: 39967-39

EPA Est. No.:

Net Contents:

Lot No.:

ACTIVE INGREDIENTS: 1,2-Dibromo-2,4-dicyanobutane -----19%  
1,2-Benzisothiazolin-3-one -----6%  
INERT INGREDIENTS: -----75%  
TOTAL 100%

## KEEP OUT OF REACH OF CHILDREN DANGER

### FIRST AID

**IF IN EYES:** Hold eyes 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 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 by a poison control center or doctor.

**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 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 treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. Treat for symptoms of acute dermal toxicity, and eye and skin irritation concerns.

Have the product container or label with you when calling a poison control center or doctor for treatment. You may also contact 1-800-410-3036 for emergency medical treatment information.

The LANXESS Pittsburgh Emergency Response Telephone Number is 800-410-3063.

**IN CASE OF EMERGENCY, CALL: CHEMTREC  
800-424-9300  
INTERNATIONAL 703-527-3887**

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply in a way that will contact workers or other persons. The amount necessary for desired protection varies, depending on exposure conditions. For further application information refer to the Product Bulletin.

## STORAGE AND DISPOSAL

Keep container closed when not in use. Do not contaminate water, food, or feeds by storage or disposal.

Ship and store Biochek 410 at temperatures between 0-42 °C (32-108 °F). Freezing the product may cause a temporary water separation, which can be corrected by mechanical agitation.

Store away from heat. At temperatures above 42 °C (108 °F), the active ingredients in the dispersion may separate out.

**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 environmental control agency, or the hazardous waste representative at the nearest regional office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or reconditioning if appropriate. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

Mix well before using this product.

® Biochek is a registered trademark of LANXESS Corporation

# LANXESS

LANXESS Corporation

111 RIDC Park West Drive • Pittsburgh, PA 15275-1112

LABEL TEXT DATE: 2/14/2018

**ACCEPTED**

Feb 14, 2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 39967-39

# LANXESS

Energizing Chemistry

Product Information

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**BIOCHEK 410**  
**EPA Registration Number: 39967-39**

# **BIOCHEK<sup>®</sup> 410**

## **Industrial Preservative**

### **PRODUCT BENEFITS**

- Broad spectrum
- Excellent long-term preservation
- FDA approved
- Wide pH range (2.0 – 9.5)

### **GENERAL DESCRIPTION**

**BIOCHEK 410** is an industrial preservative which effectively inhibits the growth of bacteria, fungi and yeasts in aqueous systems including paints, adhesives, latex emulsions, metalworking fluids, pigment slurries, joint cements, household products, and printing fluids. **BIOCHEK 410** is intended to protect products during storage. Chemically, **BIOCHEK 410** is a 19% dispersion of 1,2-dibromo-2,4-dicyanobutane and 6% 1,2-benzisothiazolin-3-one, shown in order in the chemical diagram below. For a general description of the typical chemical and physical properties, see the **BIOCHEK 410** Material Safety Data Sheet.

### **APPLICATION**

The growth of microorganisms in aqueous systems during shipment, storage and handling can be detrimental to effectiveness. Such growth can affect such properties as odor, color viscosity and introduce microbial growth into production equipment and processes. **BIOCHEK 410** is effective in controlling such contamination and can improve the effectiveness and extend the life of materials treated if used according to the instructions given below.

### **TYPICAL LEVELS OF USE**

Laboratory testing and customer use shows **BIOCHEK 410** is typically effective when applied at concentrations shown. The exact amount necessary for the preservation of any given formulation will depend on the components, storage time, temperature, etc., and can be determined through actual testing coordinated by your LANXESS Corporation representative. All concentrations are based on the total formulation weight.

|                     | <b>Product Use Level</b> |
|---------------------|--------------------------|
| Adhesives           | 500 – 8000 ppm           |
| Latex Emulsions     | 500 – 8000 ppm           |
| Metalworking Fluids | 500 – 4000 ppm           |
| Aqueous Paints      | 500 – 4000 ppm           |
| Pigment Slurries    | 500 – 2000 ppm           |
| Joint Cements       | 2000 – 8000 ppm          |
| Household Products  | 500 – 4000 ppm           |

### **FDA STATUS AND APPROVALS**

**BIOCHEK 410** has FDA approval under 21 CFR 175.105, 176.170 and 176.180.

**BIOCHEK 410** is approved by the German BGVV, Recommendation XXXVI.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### **Adhesives**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping into the makeup water. **BIOCHEK 410** can be incorporated by pouring if necessary. Where the adhesive is heated, **BIOCHEK 410** should be added during the cool-down cycle to minimize any evaporative loss. Adhesives for which **BIOCHEK 410** provides effective in-can preservation are starch, epoxy, polyester, polyvinyl acetate, styrene butadiene, methyl cellulose, acrylic, polyvinyl alcohol, hydroxyethyl cellulose, dextrin and casein. Such adhesives include, but are not limited to, those used in manufacturing process, construction projects, packaging materials.

Effective protection is achieved between 500 – 8000 ppm. Optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Aqueous paints**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping into the makeup water. **BIOCHEK 410** can be incorporated by pouring if necessary. **BIOCHEK 410** should be incorporated into the makeup water during the grind.

**BIOCHEK 410** is an effective in-can preservative for all type of aqueous paints and coatings when used at levels of 500 – 4000 ppm. The optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Latex emulsions**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping into the makeup water. **BIOCHEK 410** can be incorporated by pouring if necessary. Pump or pour using moderate agitation immediately following cool-down of the emulsion, and prior to pumping the emulsion into storage tank facilities. Latex emulsions that are preserved by **BIOCHEK 410** include polyvinyl acetate, acrylic, vinyl acrylic and styrene butadiene. These emulsions are the raw materials used in the formulation of paints, adhesives, joint cements, pigments and household products.

Effective protection is achieved between 500 – 8000 ppm. Optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Dispersed pigments**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping into the makeup water. **BIOCHEK 410** can be incorporated by pouring if necessary. Pump or pour using moderate agitation immediately following cool-down of the dispersed pigment and prior to pumping to the storage tank. **BIOCHEK 410** is an effective in-can preservative to protect the pigment during handling, transportation and storage. Dispersed pigments are used to impart color to many products such as paints and coatings, adhesives and plastics.

Effective protection is achieved between 500 – 2000 ppm. Optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Household products and waxes, polishes, and inks**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping into the makeup water. **BIOCHEK 410** can be incorporated by pouring if necessary. Incorporate by pumping or pouring with agitation into the makeup water blend. These products include, but are not limited to, dishwashing liquids, furniture and floor waxes and polishes, cleaners and treatment products and over-the counter inks sold to custom color decorative household projects.

Effective protection is achieved between 500 – 8000 ppm. Optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Joint cements**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping into the makeup water. **BIOCHEK 410** can be incorporated by pouring if necessary. Incorporate by pumping or pouring with agitation into the makeup water blend. These products include mortar-like sealers that are used to construct walls.

Effective protection is achieved between 2000 – 8000 ppm. Optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Metalworking fluids**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping, but can be poured. Pump or pour **BIOCHEK 410** into the final diluted fluid either prior to its addition to the system at a level that will provide adequate protection in the diluted system, or after the system has been filled. **BIOCHEK 410** should be thoroughly mixed into the system to assure efficacy. If **BIOCHEK 410** is added to the concentrate, testing should be conducted to assure compatibility.

Effective protection is achieved between 500 – 4000 ppm. Optimum effective concentration can vary with properties of the material being preserved. Testing to determine the appropriate level for your product is highly recommended.

### **Printing fluids**

**BIOCHEK 410** is formulated to facilitate incorporation by pumping, but can be poured. Add to fluid concentrates during, or at the end of, mixing prior to filling at concentrations from 30 – 5000 ppm by weight. These printing fluids may be further diluted with water by printers so that the final concentration of **BIOCHEK 410** is 10 – 2000 ppm by weight. This product includes all types of printing fluid products such as, but not limited to printing, copier and computer inks.

Optimum effective concentration should be determined by testing in your specific application.

## **COMPATIBILITY**

**BIOCHEK 410** is compatible with typical ingredients in end-use formulations. However, it should be added separately from amine-containing and strong nucleophilic agents during product formulations. Mixing **BIOCHEK 410** with these agents may cause a reaction between the ingredients that can deactivate **BIOCHEK 410**.

**BIOCHEK 410** is most active over a pH range of 2.0-9.5. In some formulations, product has shown efficacy in higher pH formulations. If the formulation will have a final pH greater than 9.5, laboratory testing is recommended.

## **MATERIALS COMPATIBILITY**

**BIOCHEK 410** is compatible with materials such as PVC, polyethylene, polypropylene, Tygon, Teflon and glass. **BIOCHEK 410** is corrosive to mild steel.

Positive displacement pumps are preferred for handling the product.

Recommended materials for pump “liquid ends” and piping include polyethylene, polypropylene, PVC, Kynar, Viton, or Hypalon.

**IN CASE OF EMERGENCY, CALL: CHEMTREC 1-800-424-9300**

**INTERNATIONAL (703)-527-3887**

**HAVE THE PRODUCT CONTAINER OF LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR DOCTOR OR GOING FOR TREATMENT.**

LANXESS Corporation  
111 RIDC Park West Drive  
Pittsburgh, PA 15275

2/2018