



United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
☒ Other

OPP Identifier Number
246965

Application for Pesticide - Section I

1. Company/Product Number 10445-90	2. EPA Product Manager Johnson	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Biochek 410	PM# 31	
5. Name and Address of Applicant (Include ZIP Code) Calgon Corporation P.O. Box 1346 Pittsburgh, PA 15230 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION
MAY 1 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

- Add the additional use of printing fluids to label and product bulletin as per PR Notice 95-2.
- Update environmental hazards on product bulletin as per PR Notice 93-10.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container If "Yes" per container, No. per container _____ If "Yes" per package, No. per container _____	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product		
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Stanley C. Oslosky	Title Manager, Product Regulations	Telephone No. (Include Area Code) 412-494-8651
<p>Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>		
2. Signature 	3. Title Manager, Product Regulations	6. Date Application Received (Stamped)
4. Typed Name Stanley C. Oslosky	5. Date 4/22/96	

2019

BIOCHEK 410

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, paper and papermills, pigment slurries, joint cements, household products, and printing fluids. **BIOCHEK 410** is intended to protect products during storage. **BIOCHEK 410** does not impart antimicrobial properties to the preserved product.

Appearance Tan to light brown aqueous dispersion
Active Ingredients 19% 1,2-dibromo-2,4-dicyanobutane
..... 6% 1,2-benzisothiazolin-3-one
Viscosity (Brookfield RVT, #5 Spindle @ 50 rpm, 20°C) 1200-2000 cps
Freezing Point 0°C
Specific Gravity 1.1 @ 20°C

TYPICAL USE LEVELS

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

Product Use Level

Adhesives	0.05 - 0.8%
Latex Emulsions	0.05 - 0.8%
Metalworking Fluids	0.05 - 0.4%
Aqueous Paints	0.05 - 0.4%
Pigment Slurries	0.05 - 0.2%
Joint Cements	0.2 - 0.8%
Household Products	0.05 - 0.4%
Pulp & Paper Mills	0.05 - 0.8%
Printing Fluids.	0.001 - 0.2%

MICROORGANISM CONTROL

BIOCHEK 410 is proven to be effective in controlling the growth a variety of bacteria, fungi and yeasts. These include:

Bacteria

Aerobacter aerogenes
Bacillus megaterium
Bacillus subtilis ATCC 27388
Desulfovibrio desulfuricans ATCC 7757
Enterobacter cloacae
Escherichia coli ATCC 4352
Klebsiella pneumonia ATCC 8308
Proteus mirabilis ATCC 7002
Proteus vulgaris
Pseudomonas aeruginosa ATCC 10145
Pseudomonas fluorescens ATCC 13525
Staphylococcus aureus ATCC 6538
Streptococcus faecalis
Streptococcus lactis

Fungi

Aspergillus niger ATCC 6275
Aureobasidium pullulans
Cephalosporium sp. (Metalworking fluid isolate)
Fusarium sp. (Metalworking fluid isolate)
Penicillium funiculosum ATCC 9644
Penicillium notatum
Trichoderma viride ATCC 9678

Yeast

Candida sp. (Metalworking fluid isolate)
Saccharomyces cerevisiae ATCC 4111

DIRECTIONS FOR USE

BIOCHEK 410 is an in-can preservative intended to protect products during storage from degradation by bacteria, fungi and yeasts. BIOCHEK 410 does not impart antimicrobial properties to the preserved product.

Adhesives:

BIOCHEK 410 should be incorporated with agitation into the make-up water. However, where the adhesive is heated, BIOCHEK 410 should be added during the cool-down cycle. Adhesives for which BIOCHEK 410 provides effective in-can preservation are: starch, epoxy, polyester, polyvinyl, acetate, styrene butadiene, methyl cellulose, acrylic, polyvinyl alcohol, hydroethyl cellulose, dextrin and casein. The ingredients in BIOCHEK 410 are approved for use in adhesives by the Food & Drug Administration under 21 CFR 175.105.

Aqueous Paints:

BIOCHEK 410 should be incorporated into the make-up water during the grind.

Latex Emulsions:

BIOCHEK 410 should be added using moderate agitation immediately following cool-down of the emulsion and prior to pumping 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.

Dispersed Pigments:

BIOCHEK 410 should be added using moderate agitation immediately following cool-down of the dispersed pigment and prior to pumping to the storage tank.

Household Products for Waxes, Polishes and Inks:

BIOCHEK 410 should be incorporated with agitation into the make-up water blend.

Joint Cements:

BIOCHEK 410 should be incorporated with agitation into the make-up water.

Metalworking Fluids:

BIOCHEK 410 can be added or metered into the final diluted fluid either prior to its addition to the 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.

Paper Mill Slimicide Control:

Addition should be made at a location that will insure uniform distribution of BIOCHEK 410 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water chests. It is preferable to clean a fouled machine before slimicide addition whenever possible.

The ingredients in BIOCHEK 410 are approved for use as slimicides by the Food & Drug Administration under 21 CFR 176.300, for use in paper and paperboard products that contact aqueous, fatty and dry food under 21 CFR 176.170 and 176.180.

Printing Fluids:

Add BIOCHEK 410 to fluid concentrates during or at the end of mixing prior to filling at concentrations from 0.003 to 5% by weight. These printing fluids may be furthered diluted with water by printers so that the final concentration of BIOCHEK 410 is between 0.001 to 0.2% by weight.

The ingredients in BIOCHEK 410 are approved for use as slimicides by the Food and Drug Administration under 21 CFR 176.300, for use in paper and paperboard products that contact aqueous, fatty and dry food under 21 CFR 176.170 and 176.180.

BIOCHECK 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 BIOCHECK 410 with these agents may cause a reaction between the ingredients which can de-activate BIOCHECK 410.

BIOCHEK 410 is most active over a pH range of 2-9.5. 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.

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. Chemical feed pumps are available from Calgon Corporation.

BIOCHEK 410 is available in 44 pound net pails, 440 pound net drums and liquabins containing 3000 pounds net.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER: CORROSIVE TO EYES
CAUSES EYE DAMAGE AND SKIN IRRITATION
HARMFUL IF SWALLOWED

Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

EYES: If in eyes, immediately hold eyelids open and flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN: If on skin, wash with soap and water. Seek medical attention if irritation develops.

INTERNAL: If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other public waters unless in accordance with the requirements of a National Pollutant Discharge Eliminating 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

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

Ship and store BIOCHEK 410 between 0°C (32°F) and 42°C (108°F).
Keep from freezing. Freeze-thaw cycle may cause a temporary water separation and can be corrected by mechanical agitation.

Store away from heat. At temperatures above 42°C (108°F), the active ingredient in the aqueous dispersion may separate out. A temperature-indicator spot has been added to the drum to indicate the exposure to elevated temperatures. Instructions which appear on the label follow:

If temperature-indicator spot on drum head label is white, the product can be used directly.

STORAGE AND DISPOSAL (Cont'd)

If indicator spot on drum head label is bright blue, matching the exposed example, sample the drum. If the product is a slightly viscous, white dispersion, the product may be used. If two phases or if a clear viscous water layer is found, call your product representative.

Temperature changes may alter viscosity, but should not affect handling or performance.

Waste resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Do not reuse empty container.

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE

Seller makes not warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instruction.

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet and label for this product.

For additional information regarding incidents involving human and environmental exposure, call 412/777-8000 and ask for the Regulatory and Trade Affairs Department.

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
DANGER**

**CORROSIVE TO EYES.
CAUSES EYE DAMAGE AND SKIN IRRITATION.
HARMFUL IF SWALLOWED.**

Do not get in eyes, on skin, or on clothing.
Wear goggles or face shield and rubber gloves when handling.
Wash thoroughly with soap and water after handling.
Remove contaminated clothing and wash before reuse.

FIRST AID

EYES: If in eyes, immediately hold eyelids open and flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

SKIN: If on skin, wash with soap and water. Seek medical attention if irritation develops.

INTERNAL: If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other public waters unless in accordance with the requirements of a National Pollutant Discharge Eliminating 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.

NOTICE: Seller expressly warrants that the product conforms to its chemical description. There are no warranties associated with the sale of this product either express or implied including but not limited to the warranties of fitness for a particular purpose or merchantability.

6M84-08/7-94



BIOCHEK® 410

**AN INDUSTRIAL PRESERVATIVE TO INHIBIT THE GROWTH OF
BACTERIA, FUNGI AND YEASTS IN AQUEOUS PAINTS, ADHESIVES,
LATEX EMULSIONS, METAL-WORKING FLUIDS, PIGMENT
SLURRIES, JOINT CEMENTS, HOUSEHOLD PRODUCTS AND
PRINTING FLUIDS.**

ACTIVE INGREDIENTS:

1,2-dibromo-2,4-dicyanobutane 19%

1,2-benzisothiazolin-3-one 6%

INERT INGREDIENTS 75%

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet for this Product.

For additional information regarding incidents involving human and environmental exposure, call 412-777-8000 and ask for the Health and Environmental Affairs Department.

**KEEP OUT OF REACH
OF CHILDREN**

DANGER

See Side Panel For Additional
Precautionary Statements

E.P.A Registration No. 10445-90

☐ EPA Establishment No. 10445-PA-01

☐ EPA Establishment No. 10445-TX-01

☐ EPA Establishment No. 55621-NC-001

Net Weight: BULK

CALGON CORPORATION

CALGON CENTER • PITTSBURGH, PA. 15230

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00-6M84-08

DIRECTIONS FOR USE

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

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°F to 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.

ATTENTION: If the temperature indicator button is white, the product can be used directly.

If the indicator button is bright blue, matching the exposed example, sample the drum. If the product is a slightly viscous, white dispersion, the product may be used. If two phases are found or clear viscous water is found, contact your product representative.

Temperature changes may alter viscosity, but will not effect product handling or performance.

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 EPA Regional Office for guidance.

DISPOSAL OF DRUMS: Do not reuse empty container. Triple rinse (or equivalent). Reseal container 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.

Made in U.S.A.

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