

39967-54

01/09/2007

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 39967-54

Date of Issuance: JAN 9 2007

Term of Issuance:

Conditional

Name of Pesticide Product:

BIOCHEK® BIT 10

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Lanxess Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(a) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Revise the "EPA Registration Number to read, "EPA Reg. No. "39967-54".

Signature of Approving Official:

Marshall Swindell
Product Manager Team-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

JAN 9 2007

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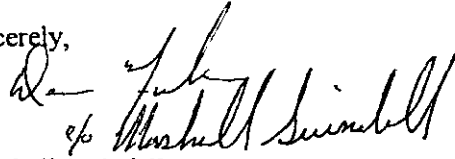
EPA Reg. No. 39967-54

- b. On page 2, in the Technical Information Bulletin, under the highlighted section that states *Paints and Coatings*, after the the word "water-based" insert the word "paints"
- c. On page 3, in the Technical Information Bulletin, under the *Properties of BIOCHEK® BIT 10* section, the value for viscosity is an error. Please make the necessary change.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Demson Fuller at (703) 308-8062.

Sincerely,

A handwritten signature in cursive script, appearing to read "Demson Fuller" with "for Marshall Swindell" written below it.

Marshall Swindell
Product Manager Team-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Enclosure: (Stamped Label)

BIOCHEK[®] BIT 10

FOR INDUSTRIAL USE ONLY AS AN ANTIMICROBIAL TO PROTECT AQUEOUS COMPOSITIONS SUCH AS LATICES, OIL-IN-WATER EMULSIONS, PAINTS AND COATINGS, INKS AND FONT SOLUTIONS, WATER-BASED ADHESIVES, AQUEOUS PIGMENT OR MINERAL SLURRIES, BUILDING AND CONSTRUCTION COMPOSITIONS, PESTICIDE FORMULATIONS, HOME CLEANING PRODUCTS, LIQUID LAUNDRY ADDITIVES, CAR CARE PRODUCTS, OIL RECOVERY MATERIALS, SECONDARY OIL RECOVERY FLUIDS, PAPER OR TEXTILE COATING COMPOSITIONS, PULP AND PAPER MILL SYSTEMS, OR LEATHER PROCESSING SOLUTIONS, OR INTENDED TO PROTECT FRESH ANIMAL HIDES OR SKINS

**KEEP OUT OF REACH OF CHILDREN
DANGER**

ACTIVE INGREDIENTS:
1,2-benzisothiazolin-3-one 9.0%
INERT INGREDIENT: 91.0%
Total 100.0%

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. Causes skin burns and irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear goggles or face shield, chemical resistant gloves, long pants and long sleeved shirt. Wear a mask or pesticide respirator approved by the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply in marine or estuarine oil fields.

DIRECTIONS FOR USE

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

For Detailed Directions For Use, Please Refer To The LANXESS Corporation Technical Information Bulletin. Read these entire directions before using BIOCHEK BIT 10.

IN CASE OF EMERGENCY, CALL: CHEMTREC 800-424-9300
EPA REGISTRATION NUMBER: 39967-XX
EPA ESTABLISHMENT NUMBER:

LANXESS

LANXESS Corporation
111 RIDC Park West Drive - Pittsburgh, PA 15275-1112

FIRST AID

Call a poison control center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center or when going for treatment.

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 eye. Call a poison control center or doctor for treatment advice.

IF SKIN IRRITATION OR DERMAL EXPOSURE: Take off contaminated clothes. 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.

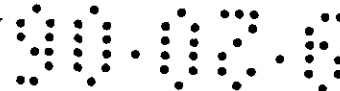
IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Poison Control Center: Call 1-800-222-1222

[®] Biochek is a registered trademark of LANXESS Corporation

INTERNATIONAL 703-527-3887
Net Contents:
Lot No.:



LABEL TEXT DATE: 9/18/2006

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Protect from frost. If frozen, allow to thaw and stir well before 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: 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.

Emergencies: In emergency situations, such as spills, fire, or exposure: call 1-800-424-9300

DISCLAIMER: Seller (whether manufacturer, distributor, or other) makes no warranty express or implied, including the implied warranty of merchantability, regarding this product except the composition as set forth in the ingredient statement herein, and shall not be liable for special or consequential damages, the exclusive remedy being the replacement of the product. Buyer or user assumes all risk of possession, handling of the product, and disposal when such use and/or handling is contrary to label instructions.

WILCOXVILLE, PA
EPA REG. NO. 39967-XX
JAN 9 2007

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered under

39967-54

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LANXESS

Energizing Chemistry

Technical Information Bulletin

BIOCHEK[®] BIT 10

EPA Registration Number: : 39967-XX



Under the Federal Insecticide, and Rodenticide Act, and related laws, this product is registered for use as a...

39967-54

LANXESS Corporation BIOCHEK® BIT 10 Technical Information Bulletin

General

Many aqueous dispersions and emulsions can be spoiled during storage and use due to the growth in them of bacteria, fungi, molds, or other microorganisms. BIOCHEK BIT 10, an aqueous solution of 1,2-benziso-thiazolin-3-one (BIT), is an efficient microbial preservative for many aqueous systems, and exhibits:

- Effective control of a wide range of organisms at cost-effective concentrations.
- Long-term storage stability.
- Ease of use due to its liquid form and good compatibility in most aqueous compositions.
- A clear light color, with attendant advantages.

BIOCHEK BIT 10 protects against growth of microbial agents in aqueous systems such as the following:

Latices, such as polymer latices based on monomers such as acrylate, butadiene, PVA, or styrene; synthetic rubber/latex

Water-based adhesives, including animal glues, carboxymethylcellulose (CMC) and derivatives, and adhesives based on gelatin and/or latex

Aqueous slurries of pigments, such as titanium dioxide, or of **minerals**, such as kaolin, calcium carbonate, calcium sulfate, or magnesium sulfate

Oil in water emulsions, such as textile spin-finish solutions, cutting/rolling oils, soluble oils (metal and engineering industries), and photographic emulsions

Paints and coatings, such as aqueous coatings, water-based, and emulsion paints

Inks and font solutions

Building and construction materials, such as caulks, sealants, grouts, spackling, ready-mixed cement and wallboard compounds, and tape joint compounds

Pesticide formulations, including in-can protection and protection of use dilutions

Cleaning products, including floor waxes and polishes, surface cleaners, window cleaners, and dish detergents

Liquid laundry additives, including laundry detergents, fabric softeners, and stain removers

Car care products, including car washing products, car waxes, and silicone emulsions

Oil recovery materials, such as drill muds, packer fluids, and completion fluids

Secondary oil recovery injection water with additives

Leather processing solutions, to protect the solution

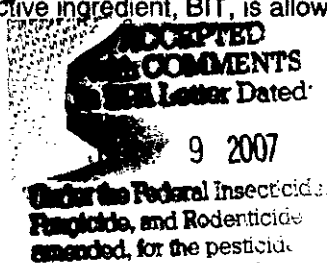
Fresh animal hides and skins, to preserve the integrity of the hides and skins before or during processing

Paper coatings to be used in papermaking, including rosin dispersions and starch and casein based products

Pulp & paper mill system slime control by shock dosing or continuous dosing

U.S. REGULATORY CLEARANCES: BIOCHEK BIT 10 is registered with the U.S. Environmental Protection Agency and has been granted EPA registration Number 39967-XX.

Under 40 CFR 180.1001(d) its components are exempt from the requirement for a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticides applied to growing agricultural crops. Not more than 0.1% of the active ingredient, BIT, is allowed in such pesticide formulations.



LANXESS Corporation BIOCHEK® BIT 10 Technical Information Bulletin

BIT, the active ingredient of BIOCHEK BIT 10, is cleared for use under the following FDA clearances:

- 21 CFR 175.105, as a preservative of adhesives
- 21 CFR 176.170, as preservative for paper coating compositions, at level not to exceed 0.01 mg/in² of finished paper or paperboard in contact with fatty & aqueous food
- 21 CFR 176.180, as preservative for paper coating compositions, at level not to exceed 0.02 mg/in² of finished paper or paperboard in contact with dry food
- 21 CFR 176.300, slimicides (in manufacture of food-contact paper or paperboard) at level not to exceed 0.06 lb per ton of dry weight fiber
- 21 CFR 177.2600(c)(4)(ix), uncured latex rubber (consult regulation for limitations)

Properties of BIOCHEK® BIT 10

Composition: A solution of 1,2-Benzisothiazolin-3-one at 9% average in propylene glycol & water

Physical form and appearance: Clear amber liquid.

Viscosity: 4.52 mm²/s at 20°C

Specific gravity: 1.12 at 25°C

pH: 10.1 at 25°C

Boiling point: ~100°C

Solubility: Soluble in water

Stability: Stable under all normal storage conditions

ACCEPTED
WITH COMMENTS
EPA Letter Dated: 9/9/2007
Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended, for the pesticide registered under EPA Reg. 34967-54

DIRECTIONS FOR USE

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

BIOCHEK BIT 10 is an effective preservative in most aqueous compositions. The concentration required to give protection depends on several factors. These include the susceptibility of the system to microbiological degradation, the extent to which micro-organisms can gain access, the species involved, pH, temperature, and length of time for which protection is required.

For protection against bacterial attack, a concentration within the range 0.04 - 0.70% BIOCHEK BIT 10 is almost invariably sufficient. In dilute fluid systems, spoilage is usually controlled with dosages not greater than 0.18%. Control of mold growth, particularly on paste products of high solids content, may occasionally require demand dosages above 0.50%. Do not use concentrations greater than 1.0%.

Trials at different concentrations are recommended. Typical applications, and the suggested range of concentrations on which trials can be based, are:

Type of material to be protected	Lbs BIOCHEK® BIT 10 to use per 1000 Lb of material to be protected
Latices , such as: polymer latices based on monomers such as acrylate, butadiene, PVA or styrene; synthetic rubber/latex	1 to 3 lb (0.10 - 0.30%)
Oil-in-water emulsions , such as textile spin-finish solutions, cutting/rolling oils, soluble oils (metal and engineering industries), and photographic emulsions. Note: limit amount of BIOCHEK BIT 10 in metalworking fluid concentrate (to be diluted before use) to 3.0 % to reduce the possibility of dermal sensitization.	1 to 3.6 lb (0.10 - 0.36%)
Paints and coatings , such as aqueous coatings, water-based paints, and emulsion paints	1 to 5 lb (0.10 - 0.50%)
Inks and font solutions	1 to 5 lb (0.10 - 0.50%)

Type of material to be protected	Lbs BIOCHEK® BIT 10 to use per 1000 Lb of material to be protected
Aqueous slurries of pigments such as titanium dioxide slurries or of minerals such as kaolin, calcium carbonate, calcium sulfate, or magnesium sulphate	0.8 to 2.5 lb (0.08 - 0.25%)
Building and construction materials , such as caulks, sealants, grouts, spackling, ready-mixed cement and wallboard compounds, and tape joint compounds	1.6 to 5 lb (0.16 - 0.50%)
Pesticide formulations , including in-can protection and protection of use dilutions	1 to 5 lb (0.10 - 0.50%)
Home cleaning products , including floor waxes and polishes, surface cleaners, window cleaners, and dish detergents	1 to 3 lb (0.10 - 0.30%)
Liquid laundry additives , including laundry detergents, fabric softeners, and stain removers	1 to 3 lb (0.10 - 0.30%)
Car care products , including car washing products, car waxes, and silicone emulsions	1.5 to 3 lb (0.15 - 0.30%)
Oil recovery materials , such as drill muds, packer fluids, and completion fluids, containing polysaccharide fluid loss control agents and/or thickeners such as starch, guar, or xanthan gum	1 to 3 lb per 1000 lb of fluid (0.10 - 0.30%), or 30 to 90 lb per 1000 lb of dry polysaccharide added to fluid
Secondary oil recovery injection water containing additives, such as polymer or micellar/polymer waterfloods using thickeners such as xanthan gum and/or polyacrylamides	0.3 to 3 lb (0.03 - 0.30%) of total weight of fluid
Leather processing solutions , to preserve the solutions	0.5 to 4 lb (0.05 - 0.40%)
Fresh animal skins and hides , to preserve the integrity of the hides and skins before or during processing. Add the appropriate quantity of BIOCHEK BIT 10 to the brine solution during the curing operation or treat hides or skins with an appropriately diluted aqueous solution during other portions of the processing operation. The specific use rate and contact time needed to control microbial attack will depend on the degree of decomposition of the hides or skins prior to treatment.	2 to 48 pounds (26 fluid ounces to 5.0 gallons) of BIOCHEK BIT 10 per 1000 pounds of hides or skins
Paper coatings to be used in papermaking, including rosin dispersions, starch and casein based products	1 to 3 lb (0.10 - 0.30%)

ACCEPTED
with COMMENTS
EPA Letter Dated:
JAN 9 2007

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. ...

39967-54

Pulp & paper mill system slime control

The preferred method of addition is by **shock dosing** because this ensures that a high concentration of BIOCHEK BIT 10 is present in the system for several hours. If a slime control agent is added by continuous methods over periods of several hours, its concentration in the system at all times is low. This can lead to the development of resistant organisms, which is less likely to occur when the shock dosing method is used.

It is not possible to give precise recommendations as to the quantity of BIOCHEK BIT 10 to add to control slime formation, because the magnitude of the problem varies greatly from mill to mill, depending on the furnish employed, the cleanliness of the mill system, and the additional nutrients (for example, starch) that may be added to the stock.

The following quantities of BIOCHEK BIT 10 are suggested **for trial**:

Shock dosing: If this preferred method is adopted, add 5 to 18 ounces of BIOCHEK BIT 10 for each **ton** of paper produced per day as a single shock dose, the actual quantity to be used depending on the severity of the slime problem. This addition may be made to any part of the stock preparation or backwater system. Alternatively, the addition may be made to those parts of the system where it is known that slime deposits accumulate.

Continuous addition: If this method is adopted, add BIOCHEK BIT 10 continuously for either the single period of 8 hours during every 24 hours or for two separate periods of 4 hours during every 24 hours. Meter BIOCHEK BIT 10 into the recirculated backwater at a rate of 14 to 17 ounces for each **ton** of paper produced during the dosing period.

PRECAUTIONARY STATEMENTS

Keep Out of Reach of Children

DANGER

Hazards to Humans and Domestic Animals

Corrosive. Causes skin burns and irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear goggles or face shield, chemical resistant gloves, long pants and long sleeved shirt. Wear a mask or pesticide respirator approved by the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 Swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control centre doctor.

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.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control centre or doctor for treatment. Wash contaminated clothing and footwear before reuse.

Poison Control Center: Call 1-800-222-1222



Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended for the purpose of...

**LANXESS Corporation
BIOCHEK® BIT 10 Technical Information Bulletin**

Have the product container or label or this Bulletin with you when calling a poison control center, doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge 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. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply in marine and estuarine oil fields.

STORAGE AND DISPOSAL

Prohibitions

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Storage

Protect from frost. If frozen, allow to thaw and stir well before 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

Triple rinse (or equivalent). 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.

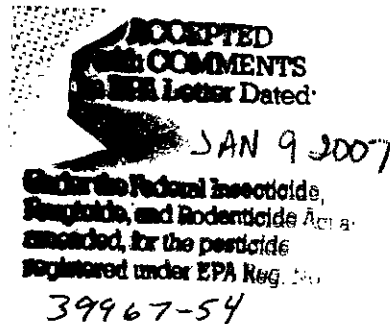
**For information on spills, call
1-800-424-9300**

Safe Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from LANXESS Corporation for information on the safe use, handling and disposal of this product.

For technical information, literature, sample and order information, please contact LANXESS Corporation at the following address:

LANXESS Corporation
111 RIDC Park West Drive
Pittsburgh, PA, 15275
(412) 809-1000



DISCLAIMER: Seller (whether manufacturer, distributor, or other) makes no warranty express or implied, including the implied warranty of merchantability, regarding this product except the composition as set forth in the ingredient statement herein, and shall not be liable for special or consequential damages, the exclusive remedy being the replacement of the product. Buyer or user assumes all risk of possession, handling or use of this material when such use and/or handling is contrary to label instructions.