

84146-1

3/18/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:  
84146-1

Date of Issuance:  
03 18 08

Term of Issuance:

Name of Pesticide Product:  
MicroSilver BG-R

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Bio-Gate AG  
4090 Premier Drive  
High Point, NC 27265

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. Add the phrase "EPA Registration Number 84146-1."

Signature of Approving Official:

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

Date:

3. The Confidential Statement of Formula dated October 4<sup>th</sup>, 2007, is acceptable.

4. Submit three (3) copies of the final printed label prior to releasing this product for sale.

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.

Sincerely,



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

Enclosure: (Stamped Labeling)

# MicroSilver BG-R

For Use in the Manufacture of Commercial and Consumer Products to Impart Antimicrobial Properties

MicroSilver BG-R is an antimicrobial additive that safely and effectively inhibits the growth of stain and odor causing bacteria, mold, and mildew on the product in which it is added or applied.

**Active Ingredient:**

Silver.....100%

TOTAL: 100%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA REG. No. XXXXX-XX  
EPA EST. No. XXXXXX-XX

Manufactured by Bio-Gate AG  
Fahrenheitstrasse 11  
28359 Bremen  
GERMANY

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
**031808**

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

**84146-1**

SEE SIDE PANEL FOR PRECAUTIONARY STATEMENTS

Please refer to the Technical Bulletin for information concerning uses.

**DIRECTIONS FOR USE:**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. MicroSilver BG-R is a bacteriostatic agent for processing or manufacturing use only. Formulators are responsible for obtaining registrations for their own end use products.



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# PRECAUTIONARY STATEMENTS

## CAUTION

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, inhaled, or absorbed through the skin. May cause eye irritation. Prolonged skin contact may cause skin irritation and/or dermatitis. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

### FIRST AID

If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if applicable, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminate clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>HOT LINE NUMBER: 1-800-873-1138</b></li> </ul>	
<ul style="list-style-type: none"> <li>• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> </ul>	

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. 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.

### STORAGE AND DISPOSAL

Storage	Keep tightly closed in a dry, cool and well-ventilated place. Avoid dust formation - - Dust may form explosive mixture in air. Keep container closed to prevent contact with moist air. Do not store in area where food or feed may come in contact with the product. Keep away from direct sunlight.
Disposal	<p><u>Pesticide Disposal:</u> Unused material should be disposed of in accordance with federal, state and local environmental control regulations.</p> <p><u>Container Disposal:</u> Emptied container retains product residue. Triple rinse. 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</p>

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Fungicide, and Rodenticide Act as  
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84146-7

# MicroSilver BG-R

For Use in the Manufacture of Commercial and Consumer Products to Impart Antimicrobial Properties

## TECHNICAL BULLETIN

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

MicroSilver BG-R is intended for use in the manufacture of the products listed below to impart antimicrobial properties. MicroSilver BG-R inhibits the growth of stain and odor causing bacteria, mold, and mildew on the product to which it is applied. Products containing MicroSilver BG-R may not make claims of antimicrobial activity other than protection of the article itself against growth of bacteria, mold, and mildew.

This product is not approved for any food contact or food packaging uses. This product may not be used for any applications involving food contact, food packaging, or storage of human drinking water.

**MAXIMUM CONCENTRATION:** MicroSilver BG-R may be incorporated into the types of products listed below at maximum concentration of no more than one (1) percent on a weight basis of the finished products.

1). Ceramics, ceramic glazes, porcelain enamels, and other glasses.

Specific materials: vitreous china, ceramics, glazes, earthenware, stoneware, dental glasses, borosilicate glasses, lead glasses, soda lime glasses, special glasses, porcelains, porcelain enamels, clays, concretes, and grouts.

Applications: Applications include toilets, sinks, urinals, bidets, lavatories, bathtubs, tile, flooring, windows, shower doors, shower walls, shower trays, bath and kitchen accessories, countertops, handles and knobs.

This product may not be used for any applications involving food contact, food packaging, or storage of human drinking water.

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2). Plastics and plastic composite materials.

Specific materials: Resins including alkyds, amino resins, (melamine formaldehyde and urea formaldehyde), polyester (PET, PBT, and PEN), polyamide (Nylon), polyimide, polypropylene (PP), polyethylene (PE), polybutylene, polymethyl-pentene (PMP), polysiloxane, polyvinyl alcohol, (PVOH), polyvinyl acetate (PVA), ethylene vinyl acetate (EVA), polyethylene copolymer, polyvinyl chloride (PVC), epoxies, phenolic, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer (ABS), acrylonitrile-styrene-acrylic copolymer (ASA), acetals, polyketones, polyphelylene, polyphenylene sulfide, polyphenylene oxide, polysulfones, liquid crystal polymer and fluoropolymers, amino resins, thermoplastic elastomer, rubber ( including styrene, butadiene, common acrylonitrile rubber, CR) polyacetal (polyoxymethyleneP, and blends and copolymers thereof.

Applications include toilet seats, toilets, sinks, urinals, bidets, lavatories, bathtubs, spas, tile, flooring, shower doors, shower walls, shower trays, bath and kitchen accessories, plumbing supplies and fixtures, countertops, handles, knobs, automobile parts, shower curtains, mats, protective covers, waste containers, general purpose containers, shower heads, ops, brooms, tapes, packaging, gaskets, pipes, tubing, pipe fittings, whirlpool tub and spa components, structural reinforcement composites (e.g.,

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fiber reinforced resin (backings), furniture, HVAC parts and equipment, window blinds, tools, keyboards, personal grooming equipment, footwear including boots, sports equipment, telephones, and computer equipment.

This product may not be used for any applications involving food contact, food packaging, or storage of human drinking water.

3) Fibers.

Specific materials: Resins including polyester ("Dacron" PET, and PTT), acetate, polyolefins, polyamides (Nylon), polypropylene (PP), polyethylene (PE), acrylics, viscose, polyurethane, "Rayon", polyvinyl alcohol (PVOH), polyvinyl chloride (PVC), polyvinylidene chloride, polysaccharides, and blends and copolymers thereof.

Applications include fabrics for household applications, components of aircraft interiors, home furnishings, automotive fabrics, and apparel.

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4) Coatings

Types of coatings: All application methods including water borne, nonaqueous solvent borne, 100% solids, physical vapor deposition, radiation cure, thermal cure, liquid, slurry, and powder coatings.

Specific materials: Resins including alkyds, amino resins, (melamine formaldehyde and urea formaldehyde), polyester (PET, PBT, and PEN), polyamide (Nylon), polyimide, polypropylene (PP), polyethylene (PE), polybutylene, polymethylpentene (PMP), polysiloxane, polyvinyl alcohol, (PVOH), polyvinyl acetate (PVA), ethylene vinyl acetate (EVA), polyethylene copolymer, polyvinyl chloride (PVC), epoxies, phenolic, polycarbonate, cellulose, cellulose acetate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer (ABS), acrylonitrile-styrene-acrylic copolymer (ASA), acetals, polyketones, polyphelylene, polyphenylene sulfide, polyphenylene oxide, polysulfones, liquid crystal polymer and fluoropolymers, amino resins, thermoplastic elastomer, rubber ( including styrene, butadiene, common acrylonitrile rubber, CR) polyacetal (polyoxymethyleneP, and blends and copolymers thereof.

Applications include toilet seats, toilets, sinks, urinals, bidets, lavatories, bathtubs, spas, tile, interior paint, flooring, shower doors, shower walls, shower trays, bath and kitchen accessories, plumbing supplies and fixtures, countertops, handles, knobs, automobile parts, shower curtains, mats, protective covers, waste containers, general purpose containers, shower heads, mops, brooms, tapes, packaging, gaskets, pipes, tubing, pipe fittings, whirlpool tub and spa components, structural reinforcement composites (e.g., fiber reinforced resin backings), furniture, HVAC parts and equipment, window blinds, tools, keyboards, personal grooming equipment, footwear including boots, sports equipment, telephones, and computer equipment.

This product may not be used for any applications involving food contact, food packaging, or storage of human drinking water.

5) Adhesives and Sealants.

Specific materials: Resins including alkyds, amino resins, (melamine formaldehyde and urea formaldehyde), polyester (PET, PBT, and PEN), polyamide (Nylon), polyimide, polypropylene (PP), polyethylene (PE), polybutylene, polymethylpentene (PMP), polysiloxane, polyvinyl alcohol, (PVOH), polyvinyl acetate (PVA), ethylene vinyl acetate (EVA), polyethylene copolymer, polyvinyl chloride

(PVC),epoxies, phenol polycarbonate, celluosics, cellulose etate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer (ABS), acrylonitrile-styrene-acrylic copolymer (ASA), acetals, polyketones, polyphelylene, polyphenylene sulfide, polyphenylene oxide, polysulfones, liquid crystal polymer and fluoropolymers, amino resins, thermoplastic elastomer, rubber ( including styrene, butadiene, common acrylonitrile rubber, CR) polyacetal (polyoxymethyleneP, and blends and copolymers thereof.

Applications include toilet seats, toilets, sinks, urinals, bidets, lavatories, bathtubs, spas, tile, flooring, shower doors, shower walls, shower trays, bath and kitchen accessories, plumbing supplies and fixtures, countertops, components of aircraft interiors, handles, knobs, automobile parts, shower curtains, mats, protective covers, waste containers, general purpose containers, shower heads, mops, brooms, tapes, packaging, gaskets, pipes, tubing, pipe fittings, whirlpool tub and spa components, structural reinforcement composites (e.g., fiber reinforced resin backings), furniture, HVAC parts and equipment, window blinds, tools, keyboards, personal grooming equipment, footwear including boots, sports equipment, telephones, and computer equipment.

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