



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

70404-10

Date of Issuance:

SEP 5 2008

Term of Issuance:

Conditional

Name of Pesticide Product:

Hy-Gate 4000

Name and Address of Registrant (include ZIP Code):

Ciba Corporation  
4090 Premier Drive  
High Point, N. C. 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. Revise the "EPA Registration Number to read, "EPA Reg. No. 70404-10".

Signature of Approving Official:

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

Date:

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2. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

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 Management Branch I  
Antimicrobials Division (7510P)

Enclosure



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Ciba

# HyGate™ 4000

**For Use in formulating pesticide products which are used to Manufacture Commercial and Consumer Products which Impart Antimicrobial Properties to treated articles**

HyGate 4000 is an antimicrobial additive that is used to formulate other pesticides designed for use in treated article materials. These materials will effectively inhibit 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. 70404-RN  
EPA EST. No. 084146-DEU-001

Manufactured by Ciba Corporation  
4090 Premier Drive  
High Point, NC 27265

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. HyGate 4000 is a bacteriostatic agent for the formulation of end-use pesticide products which require EPA registration. These end-use products are intended to treat polymers, coatings, plastics, adhesives, sealants, resin fibers, and ceramic based treated articles to provide antimicrobial protection of the treated article. Formulators are responsible for obtaining registrations for their own end use products.

Lot #:

HyGate™ 4000 Trademark of  
Ciba Corporation  
© 2008 Ciba Corporation

ACCEPTED  
with COMMENTS  
EPA Letter Dated:  
**SEP 5 2008**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide,  
registered under EPA Reg. No.  
**70404-10**

# RECAUTIONARY STATEMENTS CAUTION

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## 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

<b>If in eyes</b>	<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>
<b>If swallowed</b>	<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>
<b>If inhaled</b>	<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>
<b>If on skin or clothing</b>	<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>

• **HOT LINE NUMBER: 1-800-873-1138**

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

### 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

<b>Storage</b>	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.
<b>Disposal</b>	<p><b>Pesticide Disposal:</b> Unused material should be disposed of in accordance with federal, state and local environmental control regulations.</p> <p><b>Container Disposal:</b> Nonrefillable container. Do not reuse or refill this container. Emptied container retains product residue. Triple Rinse Offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities</p>

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70404-10

# HyGate™ 4000

EPA Reg. No. 70404-RN

**For Use in formulating pesticide products which are used to Manufacture Commercial and Consumer Products which Impart Antimicrobial Properties to treated articles**

## TECHNICAL BULLETIN

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

HyGate 4000 is an antimicrobial additive that is used to formulate other pesticides designed for use in treated article materials. These materials will effectively inhibit the growth of stain and odor causing bacteria, mold, and mildew on the product in which it is added or applied.

HyGate 4000 is intended for use in the manufacture of other pesticides products designed for use in treated article materials. HyGate 4000 based pesticide products inhibits the growth of stain and odor causing bacteria, mold, and mildew on treated articles to which it is applied. Products containing HyGate 4000 may not make claims of antimicrobial activity other than protection of the article itself against growth of bacteria, mold, and mildew.

Recommended materials for which treated article claims made be made are listed below:

**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.**

**RECOMMENDED MAXIMUM CONCENTRATION:** HyGate 4000 may be used to formulate pesticide products which are incorporated into the types of products listed below at a recommended 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.**

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

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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., 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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3) Fibers.

Specific materials: Resins including polyester ("Dacron" PET, and PTT), acetate, polyolefin's, 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, 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 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.

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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.

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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, phenolic, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer (ABS), acrylonitrile-styrene-acrylic copolymer (ASA), acetals, polyketones, polyphethylene, 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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