



U.S. ENVIRONMENTAL PROTECTION  
AGENCY

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

NOTICE OF PESTICIDE:

  x   Registration  
      Reregistration

(under FIFRA, as amended)

EPA Reg.

Number:

1529-62

Date of Issuance:

OCT 13 2011

Term of Issuance:

Unconditional

Name of Pesticide Product:

Fungitrol 400 EZ-FLOW

Name and Address of Registrant (include ZIP Code):

International Specialty Products  
1361 Alps Road  
Wayne, NJ 07470

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 (OPP Decision No. D-450764) is unconditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

1. Make the labeling changes listed below before you release the product for shipment:

a. Revise the "EPA Registration Symbol to read, "EPA Reg. No.1529-62".

Signature of Approving Official:

Jacqueline Campbell, Product Manager (Team 34)  
Regulatory Management Branch  
Antimicrobials Division (7510P)

Date:

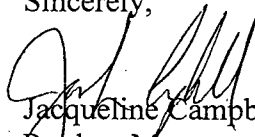
OCT 13 2011

3. Submit three (3) 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. Should you have any questions regarding this letter, please contact Jacqueline Campbell-McFarlane at (703) 308-6416 or Glen McLeod at (703) 347-0181 or [mcleod.glen@epa.gov](mailto:mcleod.glen@epa.gov).

Sincerely,



Jacqueline Campbell  
Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

Enclosure: Stamped Label  
Efficacy Data Evaluation  
Chemistry Data Evaluation  
Acute Toxicology Data Evaluation

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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# FUNGITROL® 400 EZ-Flow

FOR INDUSTRIAL USE ONLY

**ACTIVE INGREDIENT:**

3-Iodo-2-propynyl butyl carbamate.....95.00%

OTHER INGREDIENTS.....5.00%

TOTAL .....100.00%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**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 first 5 minutes, then continue rinsing eye. Call 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 further treatment advice.

**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 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 the 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.

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

**EMERGENCY MEDICAL INFORMATION: (800) 241-7439**



International  
Specialty  
Products  
1361 Alps Rd.  
Wayne, NJ 07470

EPA Reg. No.: 1529-  
EPA Est. No.: 1529-CAN-001

NOTE: READ THE MATERIAL SAFETY DATA  
SHEET BEFORE  
USING THIS PRODUCT.

IN CASE OF TRANSPORTATION EMERGENCY  
CALL CHEMTREC 800-424-9300 (703-527-3887)

Net Contents: 44.1LBS/55 LBS/110LBS

**ACCEPTED**  
with COMMENTS  
EPA Letter Dated:

OCT 13 2011

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

1529-62

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**DANGER**

**Corrosive. Causes 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.**

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Chemical resistant footwear plus socks;
- Goggles or face shield;
- Chemical resistant gloves made of any waterproof material, and a chemicals resistant apron when mixing, loading or cleaning equipment.

**USER SAFETY INSTRUCTIONS**

- Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users must remove personal protective equipment immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly.

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

**DIRECTIONS FOR USE**

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

**Do not apply this product in a way that will contact workers or other persons.**

For use as a fungicide in the following applications:

**dry film paint** generally use 0.04-0.4% in wet paint; for **aqueous metal working**, cutting, cooling and lubricating fluids and concentrates use 0.02-0.2%; for **paper coatings** use 0.02-0.8%; for **plastics and plastic coatings** use 0.2-1.0%; for **cordage** use 0.2-1.0%; for **inks** use 0.02-0.12%, for **pigment dispersions**, slurries, **gypsum slurries** for wallboard (drywall and gypsum board) use 0.004-0.8%; for **household, consumer, industrial, institutional, and janitorial products** (such as liquid and solid air fresheners, dish detergents, laundry products, soaps and detergents, non-food contact surface cleaners, floor care products, bathroom cleaners, window cleaners, fabric care products, automotive care products, and furniture care products), use 0.004-0.03%. For **wood preservation**, use only in above-ground applications only at 0.2-1.2%. Fungitrol® 400 EZ-Flow can be used as a fungicide in **non-medical, non food contact** aqueous, solvent and non-solvent based systems such as natural and synthetic adhesives, caulks, patching compounds, sealants, grouts, latexes such as sbr/latex used in the manufacture of flooring adhesives or carpet backings and for use in cement-based products. Use levels for these applications are 0.02-0.25%.

Typical use levels range from 0.02% to 3% by weight in the final formulation. For specific recommendations on the specific amounts of product please contact ISP.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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 into 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

**Do not contaminate water, food, or feed by storage or disposal.**

**PESTICIDE STORAGE** - Do not store with strong oxidizing agents or strong (concentrated) acids. Keep container tightly closed when not in use. Do not reuse container.

**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 local State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

*[Note to reviewer: the following language will be used for containers less than or equal to 50 lbs]*

**CONTAINER DISPOSAL - Non-refillable container. Do not reuse or refill this container.** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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.

*[Note to reviewer: the following language will be used for containers greater than 50 lbs]*

**CONTAINER DISPOSAL - Non-refillable container. Do not reuse or refill this container.** Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. 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.

## Applications and Use Levels

FUNGITROL® 400E-Z Flow is used primarily as a dry-film mildew protector for paint, coatings, stains, etc.

Other applications include adhesives, metalworking fluids and printing inks. It is easily incorporated into water-based or solvent-based formulations. It can be added efficiently at the appropriate formulation stage (i.e., prior to letdown). The product exhibits good stability with ionic surfactants and emulsifiers.

### Dry Film Paint Preservative

FUNGITROL® 400E-Z Flow inhibits the growth of mildew in solvent-based paints and waterborne paints, stains and latex emulsions. For best results, it must be solubilized in a suitable solvent prior to adding to the paint. Addition must be at the end of the manufacturing process and allowed to mix long enough to be adequately dispersed. Typical levels for protection against mildew on painted surfaces are 0.1 – 0.5% by weight in wet paint. For example, house paint with a wet density of 10 lbs. per gallon would use 1 – 5 lbs. of this product per 100 gallons of wet paint. Where the climate is severe and mildew growth is a major problem for painted surfaces, more would be required, as much as 0.8% by weight in the paint.

### Aqueous Metalworking, Cutting, Cooling and Lubricating Concentrates

To inhibit the growth of fungi in an aqueous metalworking, cutting, cooling or lubricating concentrate, add an amount that will give up to 1,000 ppm in the diluted fluid. The amount required in the concentrate will depend on the end use dilution. For example, if the desired level of this product in the diluted fluid is 100 ppm and the end use dilution of the fluid is 5%, then a 0.2% concentration of this product is required in the concentrate ( $100 \text{ ppm} / 0.05 = 2,000 \text{ ppm}$  or 0.2%).

### Aqueous Metalworking, Cutting, Cooling and Lubricating Fluids

To inhibit the growth of fungi in an aqueous metalworking, cutting, cooling or lubricating fluid, add up to 1,000 parts per million (0.1% w/w) of this product to the diluted fluid (1.0 lbs. per 1000 lbs. of solution or approximately 0.8 lbs. per 100 gallon of solution or 1.0 kg per 1000 kg). This product may be added to the fluid at the time it is prepared (diluted) or to the reservoir (sump) containing the fluid after it is put into use. If it is added to the reservoir, the fluid must be circulated after addition to ensure mixing.

### Paper Coatings

FUNGITROL® 400E-Z Flow may be used as a mildewcide in both aqueous and solvent-based coatings, which are applied to paper and cardboard substrates. This product can be used to prevent mold and mildew from growing on products such as: corrugated cardboard or soap wrappers, wall covers, non-food contact packaging materials and non-food contact paper tapes. Use levels of this product range from 0.02 – 0.75% of this product by weight. This product must be added at the end of the production cycle and with good agitation to prevent possible mechanical losses and to ensure uniform distribution. For example, to inhibit growth of mildew on corrugated cardboard intended for a non-food packaging, add 0.5% (5 lbs. FUNGITROL® 400E-Z Flow per 1000 lbs. of coating material) of this product to the coating material formulation.

### Plastics and Plastic Coatings

FUNGITROL® 400E-Z Flow may be used to prevent surface mildew growth on plastic items such as shower curtains, cable and wire insulation, sun umbrellas, polymer furniture, filter medias, polymer components of carpet, etc. Intended plastics include polymers such as PVC, polyurethanes, elastomers and rubbers, neoprene, styrene compounds, polyolefins, etc. Use levels of 0.05– 1.0% by weight of the plastic are generally adequate. This product must be dispersed in the plasticizer or color concentrate before it is incorporated into the resin to ensure a uniform distribution. Use of this product is not recommended if the heat of processing is above 350 °F for prolonged periods, nor shall it be used in a plastic that will be in contact with food or medical device applications. For example, to inhibit growth of mildew on a plastic such as polyurethane boat seat cushions intended for a non-food area, add 0.5% (5 lbs. FUNGITROL® 400E-Z Flow per 1000 lbs. of polyurethane formulation) of this product to the polyurethane formulation.

### Cordage

FUNGITROL® 400 E-Z Flow may be used as a mildewcide in both aqueous and solvent-based process formulations, which coat cordage. Typical use levels of this product will range from 0.02 – 1% of the process formulations used in the process of these cordages. This product must be added at the end of the production cycle to the process formulation with good agitation to prevent possible mechanical losses and to ensure a uniform distribution. For example, to inhibit the growth of mildew on cordage intended for a non-food area, add 0.5% (5 lbs. FUNGITROL® 400E-Z Flow per 1000 lbs. of process formulation) of this product to the process formulation.

(Continued)

## **Inks**

FUNGITROL® 400E-Z Flow may be used in aqueous-based ink solutions for protection of these solutions against attack of fungal organisms. It is required that this product be added at the end of the product cycle with good agitation. This product will generally impart protection when used at levels of 0.05 – 0.6% based on the formula weight.

## **Pigment Dispersions Slurries**

Fungitrol E-Z Flow is used in pigment slurries at 0.004-0.8%.

## **Gypsum Slurries**

Fungitrol E-Z Flow is used to protect wallboard (drywall and gypsum board) at use-levels of 0.004-0.8%.

**Household, Consumer, Industrial, Institutional, and Janitorial Products** such as liquid and solid air fresheners, dish detergents, laundry products, soaps and detergents, non-food contact surface cleaners, floor care products, bathroom cleaners, window cleaners, fabric care products, automotive care products, and furniture care products. The recommended use-level is the range of 0.004-0.03%.

## **Wood Preservation**

FUNGITROL® 400E-Z Flow is a white powder, non-metallic compound designed for use as a wood preservative for use in above-ground applications. All required use levels are in percentage by weight, and refer to this product. Dosage ranges are given for the various applications to indicate the approximate levels for a particular application. Exact level of use within these ranges should be determined by field trials.

For best results, this product must be solubilized in a suitable solvent or made into an aqueous dispersion and then applied to new lumber, plywood, particle board, etc., to prevent the growth of mildew, sapstain and wood rot on these substrates. **This product is recommended for use on wood in above ground use only.**

Treating solutions may be prepared by dissolving this product in alcohols or aromatic solvents or by dispersion in water. Levels of 0.3 – 1.2% of this product are suggested depending upon the severity of conditions for end use, and the extent of time that protection is required.

For freshly sawn lumber, a concentration of 0.3% of this product is suggested as a starting level. A one-minute dip at ambient temperatures in a solution or aqueous dispersion containing 0.3% of this product should be adequate to control the development of mildew and sapstain organisms on the lumber. Because of the great variation in susceptibility of fresh sawn lumber relating to the type of wood, sawing and storage techniques, conditions of humidity, method of treatment, etc., it is usually necessary to carry out field tests to determine the most appropriate means of application and the optimum concentration of this product to be used.

For best results, lumber must be treated within twenty-four hours after it is sawed. The lumber must be completely immersed in the treating bath, and the treating vat designed to permit easy immersion and removal and to minimize spillage. The vat may be cleaned by emptying and rinsing with a suitable solvent or by use of a detergent solution. To add additional product while treating, first prepare the proper solution or emulsion in a separate container (of wood, plastic, or stainless steel construction) and add to the treating vessel. After treatment, lumber must be stacked in a properly maintained seasoning yard with good drainage so that no water will accumulate in any area. The yard must be kept free from weeds and vegetation, which may hold moisture and promote growth of decay and stain producing fungi. All debris and lumber scraps should be removed from the area. A properly laid out yard should take advantage of prevailing winds to permit good air circulation. Main alleys must be at least 16 feet wide. Stack foundations must be sufficiently elevated to permit ready access of air to the pile and allow water to drain off quickly.

**Fungicide in Non-medical, Non-food Contact Aqueous, Solvent and Non-solvent Based Systems Such As Natural and Synthetic Adhesives, Caulks, Patching Compounds, Sealants, Grouts, Latexes Such As**

**SBR/Latex Used In The Manufacture Of Flooring Adhesives or Carpet Backings**

FUNGITROL® 400E-Z Flow can be used as an additive to non-medical, non-food use natural and synthetic adhesives, caulks, patching compounds, sealants, grouts, latexes such as SBR/latex flooring adhesives or carpet backings to prevent the growth of fungi, molds and mildews in the material both in the wet state and in the dry film of the finished product. Required use levels are between 0.02 – 0.25% wet formulation weight.

FUNGITROL® 400E-Z Flow should be added toward the end of production cycle with good agitation to ensure a uniform distribution. For example, to inhibit the growth of mildew on a latex-based wall cover adhesive for a non-food area, add 0.2% (2 lbs. of FUNGITROL® 400E-Z Flow per 1000 lbs. of latex-based adhesive formulation) of this product to the latex-based formulation.