

**PROPI-Shield**

Preservative For Industrial and Commercial Use

Active Ingredient:	
Propiconazole (CAS No. 60207-90-1) .....	41.8%
Other Ingredients*:	58.2%
<hr/>	
Total:	100.0%

Contains 3.6 lbs. active ingredient/gallon

\*Contains petroleum distillates

**KEEP OUT OF REACH OF CHILDREN**

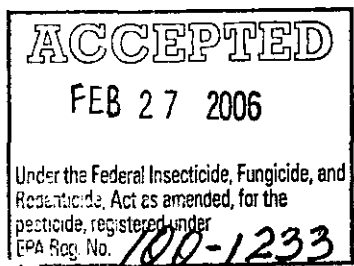
**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No.: 100-1233

EPA Est. No.: XX

Net Contents: XX



<b>FIRST AID</b>	
<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 present, 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 on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated 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>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not give any liquid to the person.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth 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 by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>NOTE TO PHYSICIAN</b>	
Contains petroleum distillate – vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-888-8372</b>	

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Syngenta Crop Protection, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Syngenta and Seller harmless for any claims relating to such factors.

Syngenta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Syngenta, and Buyer and User assume the risk of any such use. **SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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## DIRECTIONS FOR USE

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

### SAPSTAIN AND MOLD CONTROL

PROPI-Shield is used to control sap stain and mold on freshly cut hardwood and softwood lumber poles, posts, timbers and other manufactured wood products. Examples of other wood products include:

#### Logs

Fungal staining can be inhibited in freshly debarked logs used for log home construction, export and yarding prior to sawing and other purposes.

#### Wood Finish

Engineered wood composites such as particle wafer board, oriented strand board and similar products can be protected from fungal discoloration during storage by treatment with PROPI-Shield.

#### Wood Chips/Saw Dust

Treatment of wood chips, saw dust or other products intended for papermaking (not for food grade/food contact or paper board) reduces fungal discoloration and lowers bleaching requirements for intended paper products.

#### Plywood Veneer

Treatment with PROPI-Shield is effective for freshly peeled green veneer and other similar plywood furnish that can be especially subject to stain and mold development that can interfere with appearance or laminating adhesive performance.

PROPI-Shield is applied to by dipping or spraying the wood until complete wetting is achieved. For bulk dip tanks PROPI-Shield is diluted by using 0.07 gallons (0.6 gallon PROPI-Shield in 800 gallons water) to 0.6 gallon PROPI-Shield in 100 gallons of water. Agitate vigorously until completely dispersed. For conventional spray systems a 0.15 to 1% PROPI-Shield spray solution is used. For example, in a 100-gallon day tank, 0.15 to 1 gallons of PROPI-Shield are added to the day tank and then enough water is added to bring the total volume up to 100 gallons of solution. In electrostatic spray applications PROPI-Shield dilution is not required, treatment strength is varied by number of application nozzles used and line speed. Rates, for all applications used will vary according to temperature, humidity, wood moisture, storage conditions, etc. Contact your local PROPI-Shield product representative for application advice.

Remove sawdust and other debris for treating solution on a regular basis to maintain correct concentration PROPI-Shield in the application solution. To prevent fungal attack below the surface of the wood, freshly sawn lumber should be treated within 24 hours. Treated lumber should be protected from rain and removed from direct soil/ground contact.

## **DECAY AND STAIN PROTECTION**

### **Description**

PROPI-Shield is a wood preservative concentrate, which requires dilution with water prior to use on wood products to protect against decay (brown and white rot) and staining fungi (blue stain).

### **Product Uses**

For application to millwork, shingles and shakes, siding plywood and structural timber and composites that are used in above ground applications only. Do not use on wood, which will come in contact with food.

### **Wood Preparation**

Machine, cut, glue and sand wood as desired before treating. Do not use over *previously finished or stained wood without stripping off old finish*. Wood must be clean and dry before treatment. Wood for pressure treatment should be kiln dried or air seasoned to a moisture content of about 25% or less, that will permit adequate penetration or preservative during treatment.

### **Treatment**

Apply by immersion, roller coater, flood, spray, brush or pressure treatment process (double vacuum, full cell or modified full cell). For non-pressure application methods mix 1.1 to 2.2 gallons of PROPI-Shield with water to achieve 100 gallons of treating solution at the concentration of 0.25-0.5%, respectively. Wood products to be treated by the bundle-dripping process should be completely immersed for three (3) minutes. Individual wood pieces treated by immersion, roller-coated or flood shall be treated for not less than fifteen (15) seconds. Coverage for brush and spray applications is *approximately 150 square feet per gallon of treating solution, but varies by the species and condition of the wood*. Pressure treatment should be performed according to the method described in the American Wood Preserver's Association (AWPA) standards. A minimum propiconazole retention level of 0.025 pounds per cubic foot (pcf) is recommended. All treated wood must be held on the drip pad until drippage has stopped. Any surface, cut after first treatment should be retreated using 1% a.i. concentration solution.

### **Finishing**

Before glazing, staining, painting, varnishing or application of water repellants treated wood should be completely dry and odor free. For non-pressure applications allow 4-8 hours drying time under average temperature and drying conditions. Treated wood can be heat dried for plant production. Pressure treated wood requires drying time to a moisture content suitable to the type of coating applied.

### **Clean-Up**

Use water to remove wet PROPI-Shield wood preservative for all surfaces, brushes and rollers.

### **COOLING TOWER WOOD**

Use PROPI-Shield to protect surface tower wood against internal or dry rot. Apply by spraying or painting, a solution containing 0.25% to 0.6% PROPI-Shield in water onto the clean wood surfaces. The amount applied should provide 0.13 to 0.25 pounds PROPI-Shield per 1000 sq. ft. of wood surface. Surface rot can also be inhibited by periodic shock dose of PROPI-Shield to the re-circulating cooling water at the tower basin or cold well. The dosage should provide 0.95 pounds of PROPI-Shield per 1000 gallons of water and the bleed off should be stopped for 4 to 6 hours after treatment. The shock treatment should be repeated every 4 hours.

### **PAINT - WATER AND OIL BASED**

PROPI-Shield provides dry film protection of fungal molds and mildews in water and oil based paint films. Rates of PROPI-Shield in paints are dependent on the individual formulation and the expected severity of exposure conditions. The use rate will vary from 0.05 to 0.5% active ingredient by weight of paint. Testing should be done to confirm compatibility of PROPI-Shield with specific paint products.

### **PAPER, WALL BOARD (DRY WALL AND GYPSUM BOARD) AND PAPERBOARD PRODUCTS**

PROPI-Shield will inhibit fungal mold and mildew growth, which causes discoloration, odor and degradation in paper, wallboard, and paperboard. Apply with thorough agitation.

PROPI-Shield can be added to the white water at rates of 0.1 to 2.5 pounds active ingredient per ton of dry fiber. Alternatively, application may be made at the size press or water box at a rate of 0.1 to 2.5 pounds active ingredient per ton of dry paper. Regardless of application method, the maximum rate of application shall not exceed 2.5 pounds active ingredient per ton of dry paper. PROPI-Shield may be applied to the gypsum core of wallboard to inhibit the growth of fungi. Apply 0.05 to 0.60 pounds of active ingredient per 1000 pounds of formulation, i.e., wet slurry. PROPI-Shield cannot be applied to paper or paper products that come into contact with food.

## **CEILING TILES**

To inhibit the growth of fungi in ceiling tiles and in mineral-based building materials used in the manufacture of ceilings, add 0.5 to 4.25 pounds of active ingredient per 1000 pounds of formulation (i.e., wet slurry). PROPI-Shield can be added at any time during the formulation procedure.

## **RUBBER AND PLASTIC PRODUCTS**

PROP-Shield will control mold and mildew on rubber and plastic products such as curtains, bath mats, and thermoplastic rubber. PROPI-Shield may be added at rates from 0.1 to 0.5% active ingredient by weight. The temperature stability of PROPI-Shield may be influenced by the choice of heat stabilizer and plasticizer in the formulation. Testing should be done to confirm compatibility of PROPI-Shield with specific rubber or plastic products.

## **COATING CAULKS, SEALANTS, ADHESIVES, BINDERS, AND INKS**

The product cannot be used in food grade coatings, adhesives paper and paperboard, which will come into contact with food.

Sufficient mixing to ensure adequate dispersion of the biocide is required. PROPI-Shield should be used at levels between 0.11 and 2.7% based on the weight of the formulation to inhibit fungal disfigurement and deterioration. For solvent-based formulations PROPI-Shield can be dissolved into aromatic solvents or combinations of aromatic and aliphatic solvents and added in the let down or added directly to the finished product. For water thinned latex emulsions formulations PROPI-Shield can be premixed with the wetting agent and added to the pigment slurry or simply added to the let down or finished product.

## **METAL WORKING FLUIDS**

Use PROPI-Shield to inhibit fungal degradation of water based and water emulsion cutting fluids and coolants used in metalworking operations. Add PROPI-Shield to the fluid concentrations or to the diluted metalworking fluid in an amount, which will provide 50 to 700 ppm active ingredient in the diluted fluid.

## **TEXTILES, FABRICS, CANVAS AND CORDAGE**

For the control of odor and stain causing microorganisms in textiles of the following products: shower curtains, carpet backing, awnings, boat covers, canvas, cordage, tents, tarpaulins, and wall coverings.

Addition of up to 2000 ppm of this active ingredient (4600 ppm of product) based on *weight of goods can inhibit the growth of mold and mildew that causes stains, odors and product degradation* in textiles, fabrics and fibers composed of acrylic, acrylonitrile

butadiene, styrene, natural fibers (cotton, paper, wood, etc.), nitrile copolymers, nylon, polyester, polyethylene, polypropylene, rayon, rubber, (natural and synthetic), coatings/finishes composed of silicone, urethane or vinyl applied to such materials. These materials should be added at an appropriate manufacturing step to ensure adequate mixing and complete uniform coverage of the treated material. Product can be applied by dye incorporation, pad, exhaust, or spray application.

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

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