



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Antimicrobials Division (7510P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

5383-159

Date of Issuance:

12/8/15

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

TROYSAN PZ50

Name and Address of Registrant (include ZIP Code):

Maureen Mikszal  
 Troy Chemical Corporation  
 c/o Troy Corporation  
 8 Vreeland Road  
 Florham Park, N.J. 07932

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials 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 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Jacqueline Hardy, Product Manager 34  
 Regulatory Branch II, Antimicrobials Division (7510P)

Date:

12/8/15

2. You are required to comply with the data requirements described in the DCI Order identified below:

- a. Propiconazole GDCI-122101-31121

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 5383-159.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 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. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 08/04/2015

If you have any questions, please contact Jacqueline Hardy by phone at 703.308.6416, or via email at [hardy.jacqueline@epa.gov](mailto:hardy.jacqueline@epa.gov) .

Enclosure

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

**CAUTION**

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride and Viton.

Mixers and loaders using liquid formulations must wear:

- Long sleeved shirt and long pants,
- Socks and shoes, and
- Chemical-resistant gloves

**User Safety Requirements**

Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users must remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.

Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF ON SKIN OR CLOTHING:	<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>
IF IN EYES:	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</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 further treatment advice.</li> </ul>
<p><b>HOT LINE NUMBER:</b> For chemical emergency assistance (spill, leak, fire or accident) call CHEMTREC at 1-800-424-9300. Have the product container with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>NOTE TO PHYSICIAN:</b> There is no specific antidote for Troysan® PZ50. Give a saline laxative and supportive therapy.</p>	

**TROYSAN® PZ50**

**Preservative for Industrial and Commercial Use**

EPA Reg. No.	5383-159
EPA Establishment Number	5383-NJ-1

Contains 4.17 lbs. active ingredient/gallon

**ACTIVE INGREDIENT:** ..... % Weight

**PROPICONAZOLE:**

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole .....50.0%

**INERT INGREDIENTS** .....50.0%

**TOTAL** .....100.0%

**ACCEPTED**

12/08/2015

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5383-159

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See Side Panel for Additional Precautionary Statements

**IN CASE OF EMERGENCY:  
CALL 1-800-424-9300**

**Net Weight:**

**Manufactured for:**

**Troy Chemical Corporation**

One Avenue L, Newark, N.J. 07105

POLYPHASE® and TROYSAN® are registered trademarks

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and shrimp. Do not apply directly to water. Do not contaminate water when disposing of equipment wastewaters. 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 Eliminations 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 Environmental Protection Agency

**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, either directly or through drift. Only protected handlers may be in the area during application.

**COATINGS, CAULKS, SEALANTS, ADHESIVES, AND INKS:**

**IN CONTAINER PRESERVATIVE USES FOR FILM-FORMING COATINGS AND BUILDING MATERIALS (INCLUDING CAULKS, SEALANTS, ADHESIVES & BINDERS)**

TROYSAN PZ50 provides control of fungi causing stain, odor, degradation of physical properties, and/or product degradation when used as an in container preservative at levels between 0.1 - 2.4% (0.05 - 1.20% propiconazole), based on the total weight of the coating, or building material, such as mastics, caulks, joint cements, sealants, spackling, patching compounds, grouts, adhesives or emulsions and slurries used in their manufacture. Sufficient mixing to ensure adequate dispersion is required. TROYSAN PZ50 cannot be used in adhesives applied to food packaging.

**IN CONTAINER PRESERVATIVE FOR INKS**

TROYSAN PZ50 provides control of fungi causing stain, odor, degradation of physical properties, and/or product degradation when used as an in container preservative at levels between 0.1 - 2.4% (0.05 - 1.20% propiconazole), based on the total weight of the ink.

**IN CONTAINER PRESERVATIVE USES FOR PENETRATING (SOLVENT-BASED) STAINS**

TROYSAN PZ50 provides control of fungi causing discoloration, odor, degradation of physical properties, and/or product degradation when used as an in container preservative at levels between 0.1 - 0.3% (0.05 - 0.15% propiconazole), based on the total weight of the penetrating stain.

See accompanying product information sheet for additional rates and directions for use.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in the original container in a cool, dry place.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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 HANDLING:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

For containers > 5 gallons in size - Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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PRODUCT INFORMATION SHEET  
TROYSAN® PZ50 EPA REG. NO. 5383-159  
**This document must accompany each shipment of TROYSAN® PZ50**

## **DIRECTIONS FOR USE**

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Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

### **DRY FILM PRESERVATIVE OF COATINGS AND BUILDING MATERIALS (INCLUDING CAULKS, SEALANTS, ADHESIVES & BINDERS)**

TROYSAN PZ50 provides control of mold and mildew fungi causing stain, odor, or film degradation when used as a dry film preservative at levels between 0.1 – 2.4% (0.05 – 1.20% propiconazole), based on the total weight of the coating, or building material, such as mastics, caulks, joint cements, sealants, spackling, patching compounds, grouts, and adhesives. Sufficient mixing to ensure adequate dispersion is required. TROYSAN PZ50 cannot be used in adhesives applied to food packaging. Preserved coating can be applied by brush, roller, or airless sprayer.

### **SAPSTAIN AND MOLD CONTROL**

TROYSAN PZ50 is used to control sapstain and mold in freshly cut hardwood and softwood lumber, poles, posts, timbers and other wood products. Examples of other wood products include:

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

Wood Furnish: Engineered wood composites, such as particle board, wafer board, oriented strand board, and similar products can be protected from fungal discoloration during storage by treatment with TROYSAN PZ50.

Wood Chips/Saw Dust: Treatment of wood chips, saw dust or other similar by products intended for papermaking (Not for food grade/food contact paper or paper board) reduces fungal discoloration and lowers bleaching requirements for finished paper products.

Plywood Veneer: Treatment with TROYSAN PZ50 is effective for freshly peeled green veneer and other similar plywood furnish that can be especially subject to sapstain and mold development that can interfere with appearance or laminating adhesive performance.



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TROYSAN PZ50 is used to control sapstain and mold in freshly cut hardwood and softwood lumber, logs, poles, posts and timbers. TROYSAN PZ50 is applied by dipping or spraying the wood until complete surface wetting is achieved (see use chart below):

<b>Application rates per type of application system</b>			
Application System	Amount of TROYSAN PZ50 to add per 100 gallons solution	Resulting % Propiconazole	Amount of Propiconazole (ppm)
<b>Bulk Dip Tanks:</b> use 500 – 2,500 ppm active ingredient propiconazole	12.8 fl. oz.	0.05	500
	64 fl. oz.	0.25	2,500
<b>Conventional Spray Systems:</b> use 600 – 4,500 ppm active ingredient propiconazole	15.4 fl. oz.	0.06	600
	115.5 fl. oz.	0.45	4,500
<b>Electrostatic Spray Systems</b>	Apply undiluted. Deposition is varied by the number of application nozzles used and the line speed.		

Vigorously agitate diluted solutions until completely dispersed. Rates for all applications will vary according to temperature, humidity, wood moisture, storage conditions, etc. Acceptable performance may be obtained at the lower use rate on kiln-dried lumber that is stored for only a short period under dry conditions, while a higher rate typically is used on green lumber or wood that may become wet intermittently or are stored for long periods. Contact your local TROYSAN PZ50 product representative for application advice.

Remove sawdust and other debris from treating solution on a regular basis to maintain correct concentration of TROYSAN PZ50 in application solution. To prevent fungal attack below the surface of the wood, freshly sawn lumber must be treated within 24 hours. Treated lumber must be protected from rain and removed from direct soil/ground contact.



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**DECAY AND STAIN PROTECTION**

**Description:** TROYSAN PZ50 is a wood preservative concentrate that requires dilution 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 & shakes, siding, plywood, and structural lumber & 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 must be kiln dried or air seasoned to a moisture content, of about 25% or less, that will permit adequate penetration of preservative during treatment.

**Treatment:** Apply by immersion, roller coater, flood, spray, brush or pressure treatment processes (double vacuum, full-cell or modified full-cell).

Non-pressure application methods – use at 5,000 – 10,000 ppm active ingredient propiconazole (see use chart below):

<b>Application rate for non-pressure application systems</b>		
<b>Amount of TROYSAN PZ50 to add per 100 gallons solution</b>	<b>Resulting % Propiconazole</b>	<b>Amount of Propiconazole (ppm)</b>
1 gallon	0.5	5,000
2 gallons	1.0	10,000

Acceptable performance may be obtained at the lower use rate for wood exposed indoors under occasional high humidity or wet conditions, while the higher rate is necessary for wood used in high decay hazard environments exposed to weathering.

Completely immerse wood products to be treated by the bundle-dipping process for three (3) minutes. Treat individual wood pieces treated by immersion, roller-coater or flood for not less than fifteen (15) seconds. Coverage for brush and spray



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application is approximately 150 square feet per gallon of treating solution, but varies by the species and condition of the wood.

Pressure treatment methods - perform according to the methods described in the American Wood Preservers' Association (AWPA) Standards. The minimum propiconazole retention level is 0.025 pounds per cubic foot (pcf). All treated wood must be held on the drip pad until drippage has stopped. Retreat cut surfaces by brush or dip using a solution containing 1% propiconazole.

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

**Clean-up:** Use water to remove wet TROYSAN PZ50 wood preservative from all surfaces, brushes and rollers.

### **PENETRATING WOOD PRESERVATIVES AND WOOD PRESERVATIVE STAINS**

TROYSAN PZ50 provides control of decay and stain fungi on wood treated at levels between 0.5 – 0.7% (0.25 – 0.34% propiconazole), based on the total weight of the wood preservative or wood preservative stain. Do not apply more than 0.7% of TROYSAN PZ50 (equal to 0.34% propiconazole by weight) per gallon as a preservative in stains. Do not use airless sprayer to apply wood preservative or wood preservative stain. Preserved stain can be applied by brush, roller or low pressure hand wand.

### **METALWORKING FLUIDS**

Use TROYSAN PZ50 to inhibit fungal degradation of water based and water emulsifiable cutting fluids and coolants used in metalworking operations. Add TROYSAN PZ50 to the fluid concentrate or to the diluted metalworking fluid in an amount which will provide 50 to 700 ppm active ingredient in the diluted fluid.

TROY CHEMICAL COMPANY  
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Newark, N.J. 07105

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