



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

EPA Reg. Number:  
53883-236

Date of Issuance:  
**JAN 30 2008**

Term of Issuance:  
Conditional

Name of Pesticide Product:  
**Bifenthrin Industrial**

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

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:

1. You will submit and/or cite all data required for registration/reregistration 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 reregistration of your product under FIFRA section 4.
2. You have applied for the registration of a product containing the active ingredient bifenthrin. The Agency has recently conditioned the original registration of which you are a follow-on with a new data requirement. A copy of EPA's letter, date May 6, 2005 notifying FMC Corporation of the new data requirement is enclosed. As stated in paragraph 1, this registration will also be conditioned with that data requirement. Accordingly, you must take steps to ensure that these required data are submitted. The steps could include generating and submitting the data yourself, or you may offer to share with other registrants the cost of conducting testing.

The data requirement being imposed on this registration is as follows:

Wood Preservative Leaching Study – Due Date – January 30, 2010.

If you intent to submit this data and since this is a Non-Guideline study you must obtain approval of the protocol for the Wood Preservative Leaching Study from the Agency prior to study initiation. The American Wood Preservers' Association's Standard Method of Determining the Leachability of Wood Preservatives (E11-97) or equivalent will be accepted.

Signature of Approving Official:

Date:

*George T. LaRocca*  
George T. LaRocca, Product Manager (13)  
Insecticide Branch/Registration Division (7505C)

**JAN 30 2008**

3. You will make the following label changes before you release the product for shipment:
- a) Revise the EPA Registration Number to read "EPA Reg. No. 53883-236."
  - b) Revise Precautionary Statements to read as follows:

"May be fatal if swallowed. Causes skin irritation and moderate eye irritation. Do not get on skin, or clothing. Avoid breathing vapors or spray mist and contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse."
  - c) Under PPE paragraph add in Parenthesis "(neoprene or nitrile butadiene rubber)" following chemical resistant footwear.
  - d) Add "Call a poison control center or doctor for treatment advice" to the "If in eyes", First Aid statement.
  - e) Replace "To the extent allowed by law" with "To the extent consistent with applicable law" in the Warranty Statement. Also, replace "Except, as expressly provided herein, Control Solutions, Inc. makes no warranties, guarantees ... etc" with "Except, as expressly provided herein, and to the extent consistent with applicable law Control Solutions, Inc. makes no warranties, guarantees ... etc" and to the beginning of the statement, "The exclusive remedy of any buyer ... etc".
4. Within one year from the date of this notice submit the results of studies for the 830.6317 (one year storage stability) and 830.6320 (corrosion characteristics) studies. For the storage stability study it is recommended that the observations be made at 0, 3, 6, 9, and 12 months intervals.
5. Please submit three (3) copies of your final printed labeling before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact BeWanda Alexander of my team at (703) 305-7460.

3 8 8

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
**JAN 30 2008**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
**53883-236**

# Bifenthrin Industrial

## Wood Treatment Insecticide

Firms and individuals must comply with any applicable state licensing regulations for using this product.

A wood preservative for the protection and treatment of lumber against wood destroying insects.

### Active Ingredient

Bifenthrin*	23.4%
Inert Ingredients**	<u>76.6%</u>
	100.0%

\*Cis isomers 97% minimum, trans isomers % maximum;

\*\*Contains petroleum distillates

Bifen Industrial contains 2 pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN

### Warning/Aviso

Si usted no entiende la etiqueta, busque a alguien para que la explique a usted en detalle. ( If you do not understand the label, find someone to explain it to you in detail.)

(See attached label for additional precautionary information and complete Directions for Use).

EPA Reg. No. 53883-XXX

EPA Est. No. 53883-TX-002

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

Net Contents:

### FIRST AID

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

#### If swallowed:

- Immediately call a Poison Control Center or doctor.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give any liquid to the person
- Do not give anything by mouth to an unconscious person.

#### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by 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 in eyes:

- 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.

**Note to Physician:** This product is a pyrethroid. This product also contains aromatic hydrocarbons. Because of the risk of hydrocarbon pneumonitis if even tiny amounts are aspirated into the lung during emesis, consideration should be given to gastric lavage with endotracheal tube in place. Treatment is symptomatic and supportive. Animal and vegetable fats, milk, cream and alcohol may increase absorption and should not be administered.

**Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® (866) 897-8050 for emergency medical treatment information**

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans (and Domestic Animals)**

**Warning**

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if inhaled, or absorbed through skin. Avoid breathing vapor or spray mist and contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment:**

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved coveralls worn over a minimum of short-sleeved shirt and short pants, socks, chemical-resistant footwear, chemical-resistant gloves and protective eyewear. In addition, all pesticide handlers must wear a respiratory protection device (NIOSH approved respirator with any R, P, or HE filter, or a or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter) when handling the concentrate or when working in a non-ventilated space. All pesticide handlers must wear protective eyewear (goggles, face shield, or safety glasses with front, brow, and temple protection) when working in non-ventilated space.

Individuals entering treatment vessels and related equipment that are contaminated with the wood treatment solution must wear protective clothing as indicated above. OSHA confined space entry procedures must be followed. Protective clothing must be changed when it shows of contamination.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of the 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.

**Physical/Chemical Hazards**

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

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

**USE RESTRICTIONS:**

- Wood treated with this product is only for above ground uses and is not to be used in water immersion applications.
- DO NOT treat wood that will come in contact with raw agricultural commodities, food, feed or water.
- Bifenthrin Industrial is not intended for use in wood that will be in exposed interior residential settings, but may be used in wood for flooring, siding, roofing or other unexposed situations.

**General Information**

Bifenthrin Industrial is a dual emulsifiable concentrate that may be diluted with either water, white spirits or other diluents commonly used in wood preservation. Use Bifenthrin Industrial to protect wood products such as fence posts, wooden decks, wooden fences, wooden walkways, utility poles, railroad ties, landscape timbers, lumber, logs, pallets, poles, posts, wooden containers, and processed wood products. Proper application of Bifenthrin Industrial to both timber and timber based products as specified in the **Use Recommendations** table will protect treated products from damage from wood destroying insects.

Complete coverage of wood is essential for optimal insect control. Application by dipping, spraying, or brushing is a surface treatment and subsequent milling or cutting may expose untreated wood to further insect attack. Cut ends should be treated with brush application. If control of rotting or staining organisms is desired, an appropriate fungicide may be added to this treatment or it may be applied separately.

#### Handling Information

Wear protective clothing including eye protection, chemically resistant gloves, and footwear impervious to aromatic solvents (such as neoprene or nitrile butadiene rubber) during preparation of solution, treatment, and when handling freshly treated wood.

To avoid breathing spray mist during application in confined areas wear a respiratory protection device (NIOSH approved respirator with any R, P, or HE filter, or a or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter) for filtering spray mists.

Wood can be safely handled without the use of protective clothing when dry.

#### Mixing and Tank Mixing

Add the required quantity of Bifenthrin Industrial to a diluent in the holding tank, or glue mixer and mix thoroughly. Maintain agitation during both mixing and application. Users may tank mix pesticides currently labeled for similar use patterns unless prohibited by a product's label. A small jar compatibility test using proper proportions of chemicals should be run to determine chemical compatibility before tank mixing.

#### Dilution Chart

Gallons of Finished Emulsion	Amount of Bifenthrin Industrial		
	0.01%	0.06%	0.12%
25	1.3 oz.	8 oz.	0.5 qt.
50	2.6 oz.	0.5 qt.	1.0 qt.
75	3.9 oz.	0.75 qt.	1.5 qt.
100	5.2 oz.	1.0 qt.	2.0 qt.
150	7.8 oz.	1.5 qt.	3.0 qt.
200	10.4 oz.	2.0 qt.	4.0 qt.

#### Specific Application Directions

(Limited to Manufacturing, Industrial, and Rights-of-Way Settings only)

Treat wood with up to a 0.12% dilution of Bifenthrin to control wood destroying insects. It may be necessary to monitor the finished solution to ensure that the desired level of bifenthrin is maintained, particularly when the finished solution may be used for an extended period of time.

#### Dip Application

Dipping freshly cut timber, wooden containers, millwork, pallets, processed wood products and other wood products into the treatment solution can control wood destroying insects. Use rates up to 0.06% dilution of bifenthrin. Totally submerge the wood in the dilution until thoroughly wet (3 minutes minimum) and then allow to dry in a suitable location. Dipping solutions should be agitated if left unused for a period of time, such as overnight. For best performance and economy avoid heavy buildup of wood debris in dipping vessels as the active ingredient may bind to the debris and thus reduce the strength of the dilution.

#### Spray and Brush Application

Spraying or brushing the treatment solution onto freshly cut timber, wooden containers, millwork, pallets, processed wood products and other wood products can control wood destroying insects. Use a 0.01 to 0.06% dilution of bifenthrin for maximum efficacy. Spray or brush the wood thoroughly, including backs and ends. Treat all surfaces, voids, and channels where insects may be located. When spraying, use a

sprayer capable of delivering a coarse, low pressure (about 20 psi) spray. On logs, thoroughly treat bark as any untreated areas are subject to insect attack. When treating processed wood products, Bifenthrin Industrial may be sprayed onto wood chips or mixed with a compatible adhesive (such as spraying, rolling, or blending). Conduct a small-scale test for compatibility and application before full-scale production.

#### **Pressure Treating Application**

Apply Bifenthrin Industrial by pressure treatment for optimum, long-term control of wood destroying insects in railroad ties, landscape timbers, lumber, wooden containers, millwork, pallets, processed wood products, utility poles, and fence posts and other wood products that may be pressure treated. Bifenthrin Industrial may be combined with an appropriate fungicide for control of other wood-decay organisms. Treat to attain a minimum retention of 0.0024-0.0047% mass/mass.

#### **Application for Unexposed or Covered Wood**

The required use level is 0.0012 to 0.0047% (wt./wt.) for applications where the treated wood is either unexposed to the elements, or is covered with one or more layers of paint, such as in millwork preservatives (dip or double vacuum treatments). Similar low use levels are required for indoor applications such as framing lumber, composite paneling and engineered floor joists. Indoor or lightly exposed applications such as framing lumber, composite paneling, engineered floor joists or glue-laminated (glulam) beams require low use levels, ranging from 0.0024 to 0.0047% (wt./wt.) depending on treatment method. It is the responsibility of the formulator to determine the method of treatment and compatibility with composite manufacturing method and resin.

#### **Dip or Spray Application for Freshly Sawn Lumber (Antisapstain treatment)**

Bifenthrin Industrial may be used with appropriate fungicides in antisapstain treatments at a level of 0.0024 to 0.06% (wt./wt.) for short term protection (6 months) of freshly sawn lumber against wood destroying insects. Keep mixture well agitated. The effective use rate will depend on the temperature, humidity, wood moisture content, and storage conditions. Dip wood until complete surface is wetted to ensure complete protection.

#### **Preservation of Wood in Contact with Ground**

For treatments on wood in contact with the ground, such as but not limited to sill plates and fence posts the required use level of bifenthrin will vary depending on the severity of the leaching hazard. Treated wood intended for use in sub-tropical and tropical areas will require retentions of Bifenthrin Industrial at the high end of the recommended range. In general, use levels of 0.0024 to 0.0047% Bifenthrin Industrial are recommended for dip and double vacuum treatments. Formulations to be used in a pressure treatment can be lower; in the range of 0.0012 to 0.0047%. Engineering parameters such as vacuum and pressure levels & duration will vary depending on wood species and are to be determined by the formulator.

#### **Use Recommendations**

<b>Target Use</b>	<b>Rate (% a.i.)</b>
Sawn and round timbers for treatment by vacuum or vacuum pressure impregnation for use in Hazard Class H1	0.5 oz/100 lb timber
Remarks: <ul style="list-style-type: none"> <li>Determine uptake of diluent (e.g., organic solvents, water, or water repellent) per 100 lb of timber.</li> <li>Mix the appropriate amount of Bifenthrin Industrial with the diluent to achieve recommended loadings.</li> <li>Treat timber through vacuum or vacuum pressure treatment in compliance with AWP standards.</li> <li>The minimum individual retention is 0.0018% mass/mass.</li> </ul>	
Sawn and round timbers for treatment by vacuum or vacuum pressure impregnation for use in Hazard Class H2	1.7 oz/100 lb timber
Remarks: <ul style="list-style-type: none"> <li>Determine uptake of diluent (e.g., organic solvents, water, or water repellent) per 100 lb of timber.</li> <li>Mix the appropriate amount of Bifenthrin Industrial with the diluent to achieve recommended loadings.</li> <li>Treat timber through vacuum or vacuum pressure treatment in compliance with AWP standards.</li> </ul>	

<ul style="list-style-type: none"> <li>The minimum individual retention is 0.0018% mass/mass.</li> </ul>	
Framing timbers for surface spray application or dipping in Hazard Class H2 with no exposure to sunlight.	0.2 oz/100 ft. <sup>2</sup> of surface area
Remarks: <ul style="list-style-type: none"> <li>Determine uptake of diluent (e.g., organic solvents, water, or water repellent) per ft. of timber.</li> <li>Determine the surface area of 1 ft. of product to treat.</li> <li>Mix the appropriate amount of Bifenthrin Industrial with the diluent to achieve recommended loadings.</li> <li>Treat the timber through a spray system or by dripping to achieve recommended rates.</li> <li>The retention is 1.7 g/100 ft. for individual piece.</li> </ul>	
Processing & manufacture of softwood plywood in Hazard Class H2	10 oz/100 ft. <sup>3</sup> dry veneer
Remarks: <ul style="list-style-type: none"> <li>Determine the uptake of solution by veneers.</li> <li>Mix Bifenthrin Industrial as required to achieve a minimum loading of 0.0024% mass/mass in the veneers.</li> <li>The loading of bifenthrin in the panel should be a minimum of 0.0024% mass/mass following the manufacture of the plywood panel</li> </ul>	
Glueline treatment of softwood plywood for use in Hazard Class H2	0.1 oz/ft. <sup>3</sup> in the glueline
Remarks: <ul style="list-style-type: none"> <li>Determine the usage of glue per cubic foot of panel.</li> <li>Add Bifenthrin Industrial to the glue during preparation of the mix.</li> <li>The loading of bifenthrin in the panel should be a minimum of 0.0024% mass/mass following the manufacture of the plywood panel</li> </ul>	
Soft particle & Strand based boards in Hazard Class H2	0.3 oz/100 lb fiber
Remarks: <ul style="list-style-type: none"> <li>Mix sufficient Bifenthrin Industrial with the glue to achieve a retention of 0.0024% mass/mass in the finished board. Particles or strands may be treated before manufacture as an alternative.</li> <li>The pH of the finished mix must not exceed 9.5 if Bifenthrin Industrial is to be added to the glue mix</li> </ul>	

### STORAGE AND DISPOSAL

#### Pesticide Storage

If crystals are observed, warm material to above 60° F by placing container in warm location. Shake or roll container periodically by redissolve solids. Do not use external source of heat for warming container.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills, Call CHEMTREC: 800-424-9300.

To confine spill: if liquid, dike surrounding area or absorb with sand, cat litter, commercial clay, or gel absorbent. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

#### 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 Disposal

**Metal or Plastic Container:** Triple rinse (or equivalent) 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. Do not cut or weld metal containers.

**Returnable/Refillable Containers:** Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

#### WARRANTY STATEMENT

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent allowed by law, Control Solutions, Inc. shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein, Control Solutions, Inc. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Control Solutions, Inc. election, the replacement of this product.