

Reg # 19713-300

PM-12

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<p>US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460</p> <p><b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION</p> <p>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</p>	<p>EPA REGISTRATION NO. 15173-90</p> <p>DATE OF ISSUANCE <i>December 13, 1990</i></p> <p>TERM OF ISSUANCE <i>Until Reregistration</i></p> <p>NAME OF PESTICIDE PRODUCT <i>(see section 4.10)</i></p>
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NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

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**NOTE:** Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

1. Subsequent to the date of registration or reregistration of your product under FIFRA section 3(a)(5) or section 4 of the Act, you are required to file an application to amend the registration. You must file the application with the Agency and pay the applicable fee. The Agency will not release the product for sale until the application is approved.

**BEST AVAILABLE COPY**

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL: *Dennis H. Edwards Jr* DATE: *12/13/90*

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4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Dennis H. Edwards, Jr.  
Product Manager (12)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosures

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# ida, inc.

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated

## CHLORPYRIFOS 4 WOOD

DEC 13 1990

### Insecticide

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 45115-90.

WOOD TREATMENT CONCENTRATE FOR INDUSTRIAL & COMMERCIAL USE ONLY

For Control of Wood-Infesting Insects in Lumber and Logs

To Be Applied Only by or Under the Direct Supervision of Commercial Applicators Responsible for Insect Control Programs.

Transposed to  
19712-300

#### Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] .....	44.90%
Inert Ingredients .....	55.10%
Contains 4 pounds of chlorpyrifos per gallon	100.00%
E.P.A. Registration No. 45115-90	
E.P.A. Est. 464-MI-1	

KEEP OUT OF REACH OF CHILDREN

### WARNING

#### AVISO:

#### PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

#### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**HARMFUL IF SWALLOWED • HARMFUL IF ABSORBED THROUGH SKIN • CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY**

- Do Not Get In Eyes, On Skin Or Clothing •
- Handle Concentrate In A Ventilated Area •
- Wash Thoroughly With Soap And Water After Handling And Before Eating Or Smoking •
- Remove Contaminated Clothing And Wash Before Reuse.

#### STATEMENT OF PRACTICAL TREATMENT:

If Swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person. If On Skin: Wash with plenty of soap and water. Get medical attention. If In Eyes: Flush with plenty of water. Get medical attention. If Inhaled: Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

**NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Wear protective clothing such as long-sleeved shirt, long-legged pants, hat, rubber gloves, and footwear impervious to aromatic solvents, i.e., neoprene or nitrile butadiene rubber.

KEEP AWAY FROM FOOD, FEEDSTUFFS, AND WATER SUPPLIES.

#### Physical or Chemical Hazards

**COMBUSTIBLE • Do Not Use or Store Near Heat or Open Flame.**

#### Environmental Hazards

This pesticide is toxic to birds and other wildlife and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by disposal of equipment, washwaters.

#### NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

#### IN CASE OF AN EMERGENCY

Endangering life or property involving this product, call CHEMTREC (800)424-9300.

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

## DIRECTIONS FOR USE

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

Do not formulate this product into other end-use products.

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### TREATMENT OF PRECONSTRUCTION LUMBER AND LOGS

#### GENERAL INFORMATION:

**CHLORPYRIFOS 4 WOOD** can be diluted with water or suitable base oil. To prepare the mixture, dilute **CHLORPYRIFOS 4 WOOD** as shown in the following dilution chart.

#### EXAMPLE DILUTION CHART

GALLONS OF MIXTURE DESIRED	GALLONS OF CHLORPYRIFOS 4 WOOD TO USE	
	0.5% mixture	1.0% mixture
<b>OIL OR WATER BASED MIXTURE</b>		
50	$\frac{1}{2}$	1
100	1	2
250	$2\frac{1}{2}$	5
500	5	10
1000	10	20

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#### PROTECTIVE CLOTHING:

Wear protective clothing such as long-sleeved shirt, long-legged pants, hat, rubber gloves, and footwear impervious to aromatic solvents, i.e., neoprene or nitrile butadiene rubber, during the preparation of solution, treatment, and when handling freshly treated wood.

#### DIRECTIONS FOR APPLICATION:

To protect unseasoned or seasoned lumber and logs from wood destroying insects, such as termites, carpenter ants and beetles (ambrosia, powder post, old-house borers and others). Treat the wood with up to 1.0% dilution of chlorpyrifos. This dilution can be applied by spraying, brushing, dipping or pressure treatment. Monitoring of the treating mixture may be necessary to insure the desired level of chlorpyrifos is maintained. Wear protective clothing listed above during treatment, and when handling treated wet wood. Wood can be safely handled after treatment when dry.

- 1. DIP TREATMENT:** Rates of up to 1.0% are recommended for dip treatments to insure adequate retentions. The wood should be totally submerged in the dilution until thoroughly wet and then allowed to dry in a suitable location. Dipping solutions to which **CHLORPYRIFOS 4 WOOD** has been added should be agitated before use if left unused for a period of time.
- 2. PRESSURE TREATMENT:** Rates of up to 0.5% are recommended for adequate penetration and retention. After the pressure is released and the system drained, the wood should be placed in a suitable location for drying.
- 3. SPRAY TREATMENT AND BRUSH TREATMENTS:** Rates of up to 1.0% are recommended for spray and brush treatments. The wood should be sprayed or brushed thoroughly, including backs and ends, with the treating mixture.

### STORAGE AND DISPOSAL

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

**Storage:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. Storage below 40°F may result in formation of crystals. If product crystallizes, store at 55-75°F and shake occasionally to re-dissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue 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:** 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.

If burned, stay out of smoke.

### WARRANTY LIMITATIONS AND DISCLAIMER

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall IDA, INC. or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by IDA, INC. and is accepted as such by the Buyer.

**RQ/INSECTICIDE LIQUID N.O.S.  
(Chlorpyrifos)  
NA1993**

IDA, INC.

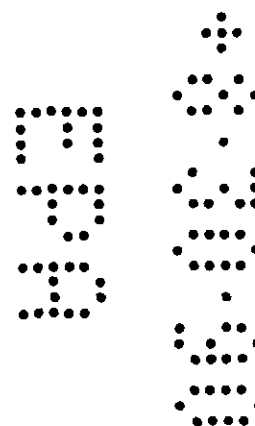
# CHLORPYRIFOS 4 WOOD

INSECTICIDE WOOD TREATMENT CONCENTRATE

PRODUCT INFORMATION BROCHURE

FROM:  
IDA, INC.  
2215 West Street, Second Floor  
Germantown, TN 38138

(DRAFT)



PRODUCT DESCRIPTION

**CHLORPYRIFOS 4 WOOD** is a concentrated wood preservative treatment chemical for industrial use. Once diluted with water, mineral spirits, or fuel oils, it may be applied to wood by dip, brush, spray, or pressure methods to provide cost effective protection against beetles, ants, and termites. In surface applications alone it has proven to be durable and able to protect wood for up to several years.

It is intended for use on lumber, logs, veneer and other commercial wood products requiring protection. It may not be used on home construction logs.

It may be combined with a suitable fungus and decay control product to provide full wood protection. It may not be combined with products containing Pentachlorophenol or heavy metals. (i.e., Zinc, Copper or Tin).

It has proven to be effective on every wood species on which it has been used. It is effective on dry or green wood.

It is registered with the U.S. Environmental Protection Agency for use on lumber, poles, rails and other wood products requiring protection.

PRESERVATIVE DESCRIPTION

It is an emulsion concentrate containing a unique wood preservative. The active ingredient, chlorpyrifos, provides exceptional protection.

Chlorpyrifos is an insecticide widely used in consumer products, soil treatments, industrial and household products, and for crop protection. Chlorpyrifos is the most widely used insect control product in North America. It is also a wood preservative that has been used in pressure treatments to protect wood from beetles, termites and ants in service above ground.

Its unique properties make it an effective treatment for both dry and green wood products.

REGISTRATION

**CHLORPYRIFOS 4 WOOD** Insect Control Wood Preservative is an industrial, general use pesticide registered by the Environmental Protection Agency for the uses described on the product label. A copy of the label is included in this manual for you to review.

The product is registered for use on the following wood products:

- Lumber
- Logs
- Veneer
- Shingles
- Composities
- Commodities: Posts - Poles - Rails
- Other Wood products requiring protection during storage and seasoning.

The product should not be used on home construction logs.

HANDLING OF TREATED WOOD

1. Traditional procedures for treated lumber should be followed.
2. People handling freshly treated wood should wear Neoprene gloves. Do not use natural rubber gloves or leather gloves.
3. Although **CHLORPYRIFOS 4 WOOD** active ingredient begins to bond on contact with wood, for maximum effectiveness, logs and lumber should be protected from heavy rain until the treatment can dry for 2-3 hours.
4. Once dry, the treated wood looks, smells and feels like untreated wood.
5. Rubber gloves are not required when handling dry lumber. Cotton or leather gloves are recommended to be worn to protect hands from splinters.



APPLICATION METHODS  
and  
RECOMMENDED TREATMENTS

General

Once the concentrate is diluted, the product may be applied by dip, spray, brush, or pressure methods.

To be protected, the entire wood surface or significant volume (pressure application) should be thoroughly treated. Frequent monitoring of application systems will insure the desired amount of treatment.

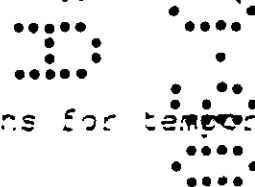
This product may be combined with suitable fungus and decay control products for full wood protection.

It may not be combined with pentachlorophenol or products containing heavy metals (i.e.; Zinc, Copper, and Tin).

Temporary Protection

For temporary protection of freshly cut logs or lumber during transport, seasoning, and storage by dip or spray methods 1 gallon of concentrate should be diluted with 500 to 2,000 gallons of water or oil depending on length of protection desired. Similar dilutions also help protect poles, timbers, veneers, and other wood products. This treatment is characterized by a quick dip (5 seconds to 60 seconds) or spray.

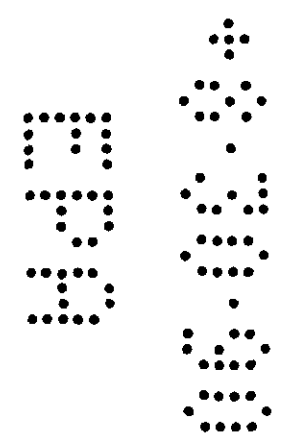
The following chart is a guide to dilutions for temporary protection.



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RECOMMEND DILUTIONS	DILUENT	CONDITION AND TYPE OF PRODUCTS TO BE TREATED	STORAGE CONDITION
500:1 to 1000:1	Water <sup>(1)</sup>	Green, moldy logs, poles or timbers with some remaining bark	Hot and humid Poor drying
600:1 to 1200:1	Water	Partially dried logs, poles or timbers	Warm and dry Poor drying
800:1 to 2000:1	Water	Green, softwood lumber	Hot and humid Open stacking
800:1 to 2000:1	Water	Green hardwood lumber	Hot and humid Open stacking
800:1 to 2000:1	Water	Green veneer	Closed stack.
800:1 to 2000:1	Water	Plywood & Composites	Hot and humid
800:1 to 2000:1	Water or <sup>(2)</sup> Diesel Fuel	Decked Logs	Hot and humid

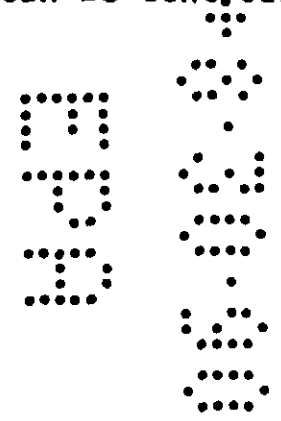
- (1) Frozen wood should be dipped for ten minutes to insure that the surface thaws and can be treated.
- (2) Check with your local regulatory agency to determine if diesel fuel carriers are allowed in your area.



- 5. If the water dilutions freeze, they may be thawed using conventional methods and reused. Dilutions are compatible with most alcohols and glycols.
- 6. Sawdust, mud and dirt contaminants will not affect the performance of dilutions.

Equipment

- 1. Dilutions can be applied to wood by dip, brush, spray, or pressure methods.
- 2. Standard methods and equipment used to apply other products can be used with **CHLORPYRIFOS 4 WOOD** Insect Control Wood Preservative.
- 3. The diluted product can be used in unlined steel, concrete or wooden tanks. Dilutions can be handled with unlined steel equipment. Dilutions are corrosive to Copper and Brass fixtures.
- 4. The product can be used in batch-type dip tanks, green-chain dip tanks, spray booths, pressure treatment cylinders, and in other standard industrial equipment.
- 5. High pressure (120 PSI) spray systems may cause the product to foam excessively. This could result in poor coverage during treatment. Excessive foaming can be controlled with anti-foam additives.



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HANDLING OF WORKING DILUTIONS

Dilution

1. The concentrate is easily diluted with any common tap or well water to form a cloudy white working dilution. It may also be diluted with mineral spirits, diesel fuel, #2 fuel oil, and other oils. For safety, oils with flash points over 100°F should be used. Caution: Oils are combustible.
2. **CHLORIPYRIFOS 4 WOOD** can be added to water, or water can be added to it.
3. Initial mixing is needed when adding the concentrate directly to a working tank. To use this dilution method, thoroughly stir the mixture until it is evenly mixed.
4. For information on accurate dilution methods, refer to the Quality Control section of this manual.

Stability

1. Once diluted and initially mixed, dilutions do not need remixing. Water dilutions need remixing if unused for over 24 hours.
2. In water dip applications, the movement of the boards is adequate to keep the working tank sufficiently agitated.
3. Working dilutions are stable to the pH range and hardness of normal waters used at plant sites. No pH adjustments are necessary under normal conditions. Do not allow pH to exceed 9 when adding basic materials like soda ash or borax.
4. Water dilutions freeze at temperatures below 32°F.

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LONGER TERM PROTECTION

For longer term protection of wood products by a surface treatment (brush, dip, spray) 1 gallon of concentrate should be diluted with 50 to 500 gallons of water or oil. At these dilutions protection may be provided for several years.

In general, the more brushed or sprayed on to the wood the longer the protection. Dip treatment performance depends on submergence time. Dip times between 5 minutes and 30 minutes are suggested.

Products that could benefit from this treatment include: Mill work untreated posts, plywood, particle board, wooden rails, pallets, ammo boxes, crates, dimensional lumber, shingles, shakes, and other wood products.

For the protection of mill work, a minimum concentration of 0.1% chlorpyrifos by weight in the treating solution is recommended. **CHLORPYRIFOS 4 WOOD** Insect Control Wood Preservative may be added to WoodTreat<sup>™</sup> mill work preservative products to provide protection against insects and fungi.

PRESSURE TREATMENTS - LONGEST PROTECTION

For Pressure treatments and resulting longer term protection, 1 gallon of concentrate should be diluted with 50 to 100 gallons of water or oil. Duration of protection depends on the retention and penetration of active ingredients. Heavy oil treatments in diesel fuel or #2 fuel oil perform better and usually penetrate better than water treatments.

A recommended treating cycle is "full cell" method with pressure of 150 psig for 60 minutes. A recommended retention is 0.0175 pounds per cubic foot of active ingredient at a depth of 0.5 inches.

Penetration and retention usually improves as the wood to be treated dries. Moisture content less than 20% is best.

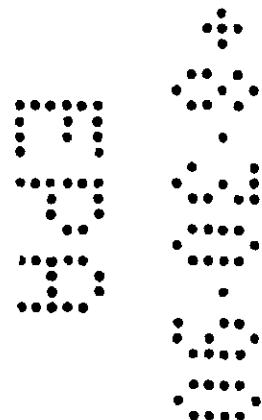
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CONVERTING TO CHLORPYRIFOS 4 WOOD INSECT CONTROL PRESERVATIVE

If you are switching from another product refer to the following conversion chart:

<u>Previous Products</u>	<u>Typical Dilution Used</u>	<u>CHLORPYRIFOS 4 WOOD Concentrate Dilution Range Suggested</u>
Lindane Emulsion	50:1	400:1
	100:1	800:1
	200:1	1600:1
Sodium Pentachlorophenate (Liquid product)	10:1 (2)	1600:1

- (1) These are recommended dilutions to protect wood under most conditions. Because the conditions at your present location may more severe, it is recommended that you begin using this product the strongest recommended dilution and then dilute more as performance is assured.
- (2) Equivalent to 2% by weight solution of sodium penta.



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