



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
2217-775

Date of Issuance:

NOTICE OF PESTICIDE:  
  x   Registration  
       Reregistration

Term of Issuance:  
Conditional

Name of Pesticide Product:  
EH 1073 Trimec Ester

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

PBI/Gordon Corporation  
1217 W. 12th Street  
P.O. Box 4090  
Kansas City, MO 64101

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 you:

1. Submit an acceptable dermal sensitization study performed with this product within nine (9) months of the date of this Notice. If the information submitted to the Agency on May 26, 1994 is found to be acceptable to upgrade the previously rejected dermal sensitization study submitted for this product, this requirement will be waived.
2. 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.
3. Make the following label changes before you release the product for shipment:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. 2217-775".
  - b. The headings Active Ingredients and Inert Ingredients should be aligned to the same margin.

Signature of Approving Official:

Date:  
MAY 15 1994

- c. Add the statements "Causes substantial but temporary eye injury. Causes skin irritation" to the beginning of the Precautionary Statements.
- d. Remove the statement requiring protective eyewear from the Precautionary Statements. This requirement is present and more specific in the Clothing Requirement Statements.
- e. Rewrite the first sentence of the Clothing Requirement Statements for the industrial uses to read "When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical resistant gloves, long sleeved shirt, long pants, socks and shoes.
- f. Rewrite the Personal Hygiene Statements for the industrial uses to read "Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this product. Wash hands, face and arms with soap and water before eating, smoking or drinking. Wash hands and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower."
- g. Since this product has no aquatic uses, the phrase "For terrestrial uses" may be deleted from the third sentence of the Environmental Hazards section.
- h. Add the statement "Do not allow this product to drift onto non-target areas" to the Use Precautions for both industrial uses and ornamental lawns and turf uses.

4. Submit two copies of the revised final printed label for the record before you release the product for shipment.

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.

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

DK: 305-5611: FHB-PM23

| Enclosure |          | CONCURRENCES |  |  |  |  |  |
|-----------|----------|--------------|--|--|--|--|--|
| SYMBOL    | 7505C    |              |  |  |  |  |  |
| SURNAME   | D. KENNY |              |  |  |  |  |  |
| DATE      | 7/6/94   |              |  |  |  |  |  |

# EH 1073 TRIMEC® ESTER

A Brush & Broadleaf Herbicide for Noncropland and Turf

Controls Ash, Aspen, Brambles, Kudzu, Oak, Willows, Dandelion, Chickweed, Knotweed, Plantains, Henbit, Spurge and many other species of brush and broadleaf weeds.

### ACTIVE INGREDIENTS:

|  |               |
|--|---------------|
| * Isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid..... | 9.74%         |
| ** Isooctyl ester of 2-(2,4-Dichlorophenoxy) propionic acid.....       | 9.55%         |
| *** Dicamba 3,6-dichloro-o-anisic acid.....                            | 1.65%         |
| **** INERT INGREDIENTS.....  | <u>79.06%</u> |
| TOTAL 100.00%  |               |

This product contains:

- 0.51 lbs. 2,4-Dichlorophenoxyacetic acid equivalent per gallon or 6.46%
- 0.51 lbs. 2-(2,4-Dichlorophenoxy) propionic acid equivalent per gallon or 6.46%
- 0.13 lb. 3,6-dichloro-o-anisic acid equivalent per gallon or 1.65%
- Contains aromatic petroleum distillates.
- Isomer Specific by AOAC Method
- TRIMEC® is a registered trademark of PBI/GORDON CORPORATION

## KEEP OUT OF REACH OF CHILDREN

### WARNING

**BEST AVAILABLE COPY**

See next panel for Statement of Practical Treatment and additional Precautionary Statements.

### NET CONTENTS (1, 2.5, 5, 30, 55) U.S. GALLON

XXX/793 APXXXXXX  
 EPA REG. NO. 2217-TTL  
 EPA EST. NO. 2217-XX-X  
 Mfd. by PBI/GORDON CORPORATION  
 KANSAS CITY, MISSOURI 64101

ACCEPTED  
 with COMMENTS  
 In EPA Letter Dated

JUL 15 1994  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
2217-775

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**STOP! READ THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS  
AND FOLLOW DIRECTIONS CAREFULLY.**

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

**WARNING:** Harmful if swallowed or absorbed through the skin. Wear protective eyewear (goggles, face shield, or safety glasses). Do not get in eyes, on skin or on clothing.

**Clothing Requirement Statements:** When mixing, loading, or applying this product, wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection. For aerial applicators in an enclosed cockpit and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required.

**Personal Hygiene Statements:** After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more: A mechanical system (probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

**Statement of Practical Treatment**

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF SWALLOWED:** Drink promptly a large quantity of milk, eggwhite, gelatin solution or if these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting. Get medical attention.

**ENVIRONMENTAL HAZARDS:** This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. For terrestrial uses, 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 when disposing of equipment washwaters. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not apply when weather conditions favor drift from target area. Do not contaminate domestic or irrigation waters.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and 2,4-DP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and 2,4-DP pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

If spills occur, collect the material and dispose of by following disposal instructions on this label.

**Physical or Chemical Hazard:** Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

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

**STORAGE & DISPOSAL**

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

**STORAGE:** Keep from freezing. Store in original container in a locked storage area inaccessible to children and pets.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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:** For Plastic Containers - Triple rinse (or equivalent). 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.

For Metal Containers - 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.

**- APPLICATION TIMING FOR MIXED BRUSH -**

Spraying can be effective throughout the growing season from full leaf to leaf drop for mixed brush. Full coverage sprays should be applied during warm weather when brush and broadleaf weeds are young and actively growing. All leaves, stems, and shoots should be thoroughly wetted to the ground. Do not cut brush until the herbicide has translocated throughout the plant causing root death. Basal bark, cut stump, and frill treatments of EH1073 are appropriate during the dormant period before bud growth or any signs of active growth of the mixed brush. However, basal bark treatments may be applied anytime of the year except when water or snow prevents spraying to the ground line.

**BRUSH CONTROLLED:**

- |              |              |                 |
|--------------|--------------|-----------------|
| Ash          | Cherry       | Multiflora Rose |
| Aspen        | Cottonwood   | Oak             |
| Birch        | Dogwood      | Pine            |
| Blackberry   | Elm          | Shortleaf Pine  |
| Black Cherry | Gooseberry   | Spruce          |
| Black Locust | Honey Locust | Surnac          |
| Brambles     | Honeysuckle  | Sycamore        |
| Buckbrush    | Kudzu        | Wild Plum       |
| Cedar        | Maple        | Willow          |

**WEEDS CONTROLLED:**

- |             |               |                |
|-------------|---------------|----------------|
| Bedstraw    | Knotweed      | Ragweed        |
| Bindweed    | Kochia        | Sheep Sorrel   |
| Black Medic | Lambsquarters | Shepherdspurse |
| Buckhorn    | Lespedeza     | Smartweed      |
| Burdock     | Mallow        | Speedwell      |
| Chicory     | Momingglory   | Spurge         |
| Chickweed   | Mustard       | Sunflower      |
| Clover      | Nettle        | Thistles       |
| Cocklebur   | Oxalis        | Trumpet Vine   |
| Dandelion   | Peppergrass   | Velvetleaf     |
| Dock        | Pigweed       | Wild Carrot    |
| Ground Ivy  | Plantains     | Wild Garlic    |
| Heal-all    | Poison Ivy    | Wild Lettuce   |
| Herbit      | Poison Oak    | Wild Onion     |
| Jimsonweed  | Purslane      | Yarrow         |



- PREPARATION OF THE SPRAY -

Oil Spray: Add one-half the required amount of diesel oil (No. 1 or No. 2 fuel oil) to the spray tank, then add EH1073 with agitation and complete filling the tank with diesel oil. Mix thoroughly and provide adequate agitation during mixing and spraying.

Water Spray: Add one-half of the required amount of water to the spray tank then add slowly EH1073 with agitation, and complete filling the tank with water. To prevent separation of the emulsion, mix thoroughly and continue agitation while spraying.

TANK-MIXING WITH GARLON® 4 Herbicide: EH1073 and GARLON® 4 Herbicide can be tank-mixed in oil or water carriers for use in roadsides, rights-of-ways, railroads, fencerows, industrial sites and other similar non- crop areas. Add one-third of the required amount of diesel oil or water to the spray tank. Add the EH1073 slowly with agitation, then add another one-third of the carrier to the tank. Next add slowly the GARLON® 4 Herbicide and the balance of the carrier. Do not mix the chemicals simultaneously. Continue the agitation during each step. All label limitations, dosage rates, and precautions of both products must be followed. A mixture of EH1073 and GARLON® 4 Herbicide should be used in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Aerial applications of this tank-mix can be made with helicopter only.

UNCULTIVATED AGRICULTURAL AREAS - FARMYARDS, BARRIER STRIPS, FIREBREAKS, FENCEROWS, and DRAINAGE DITCHBANKS.

AND

UNCULTIVATED NONAGRICULTURAL AREAS - AIRPORTS, FAIRGROUNDS, ROADSIDES, RIGHTS-OF-WAYS (RAILROADS, UTILITY, PIPELINE, HIGHWAY, ELECTRICAL POWERLINES, COMMUNICATION TRANSMISSION LINES), FUEL STORAGE AREAS, INDUSTRIAL SITES AND OTHER SIMILAR NON- CROP AREAS.

Mixed Brush Applications: Use 2.0 to 4.0 gallons of EH1073 in 100 gallons of water and apply as a full coverage spray wetting all leaves, stems, and root collars of broadleaf weeds and woody plants. This spray concentration requires a spray volume of 100 to 300 gallons per acre, depending on the height and density of the plants. Use the higher dosage rates and spray volumes with hard to control species with dense canopies or under drought conditions.

| Use Rates for Mixed Brush with Ground Equipment |  |  |
|---|--|--|
| Product Name                                    | Gallons of Product per 100 Gallons of Water      | Gallons of Product per Acre                              |
|   | High Volume: 100-300 gal/A<br>Total Spray Volume | Low Volume Broadcast: 20-100 gal/A<br>Total Spray Volume |
| EH1073  | 2.0 - 4.0  | 2.0 - 8.0  |

Diesel Oil (No. 1 or No. 2 fuel oil), mineral oil, or kerosene may be added to the water as an adjuvant at spray concentrations less than 1 to 2% volume/volume.

Mixed Brush Applications with Aerial Equipment: Use 2.0 to 8.0 gallons of EH1073 in 8 to 25 gallons of water with aerial applications for mixed brush in noncropland areas. For best control, the brush and broadleaf weeds should be young and actively growing at the time of spraying. Use the higher rates and spray volumes when plants are dense or under drought conditions. Apply with aircraft equipped to minimize spray drift and apply only when there is little or no wind.

| Use Rates with Aerial Equipment |                             |                    |
|---------------------------------|-----------------------------|--------------------|
| Product Name                    | Gallons of Product per Acre | Total Spray Volume |
| EH1073                          | 2.0 - 8.0                   | 8 - 25 gal/A       |

**Basal Bark Method:** Mix the appropriate amount of EH1073 with the appropriate amounts of diesel oil, mineral oil, surfactants, and/or basal oils. See table below. For high volume applications, apply a coarse spray as a drench treatment to the base of stems and trunks up to a height of 18 to 24 inches. Total coverage of the stems and root collars is essential. Spray until runoff and pooling at the ground line is noticed. For low volume applications, use an applicator calibrated to deliver a uniform spray to all sides of the stems and trunks up to a height of 18 to 24 inches. For all basal treatments thorough coverage is required.

| Use Rates for Basal Bark Method in Noncropland Sites |                                   |                         |                         |                        |
|--|-----------------------------------|-------------------------|-------------------------|------------------------|
| Spray Solution<br>Volume, Gallons                    | Gallons Needed for Desired Volume |                         |                         |                        |
|  | EH1073                            | Penetrants <sup>a</sup> | Diesel Oil <sup>b</sup> | Basal Oil <sup>c</sup> |
| Low Vol 10   | 8                                 | 0.25 - 0.50             | 1.5 - 1.75              | ---                    |
| Low Vol 10   | 6.7                               | 0.25 - 0.50             | ---                     | 1.5 - 1.75             |
| High Vol 100   | 12.0 - 20.0                       | ---                     | 80 - 88                 | ---                    |

<sup>a</sup>Penetrants such as Cide-Kick or Cide Kick II may improve control. Penetrant concentrations range from 2.5 to 5.0% of the spray volume and the 5.0% concentration may be more suitable in cold weather. Crop oil concentrates with paraffinic oil concentrations greater than 80% may also be used.

<sup>b</sup>Mineral oil or kerosene can be substituted for diesel oil.

<sup>c</sup>Androc Oil, Hygrade I, Arborchem Basal Oil, JLB Oil Plus, or other proprietary basal oils may be used.

**Cut Surface - Stump Treatment:** This method is most effective and economical on stumps with diameters larger than 3 to 4 inches. This treatment can be applied throughout the year except when snow, ice, or water prevents thorough spray coverage. Mix 2.0 to 4.0 gallons of EH1073 with 23 to 24 gallons of diesel oil. For backpack sprayers or other equipment mix 40 to 80 fluid ounces of EH1073 with 4.0 gallons of diesel oil. Apply to freshly cut tree stumps with a low volume backpack sprayer using an appropriate nozzle. Spray thoroughly the cut surfaces, bark, and exposed roots. Drench until run-off to the soil surface is noticed.

**Frill Treatment:** This treatment is recommended for culling trees with trunk diameters greater than 5 to 6 inches. Make a frill by using an axe to cut overlapping notches in a continuous ring around the trunk near its base. Cut through the bark, but do not remove chips.

Mix 12 to 16 gallons of EH1073 in 100 gallons of diesel oil and treat freshly cut frills at any time of the year. Spray or pour the spray mixture into the frills without runoff.

**USE PRECAUTIONS:** Do not apply this product through any type of irrigation system. Avoid spray drift to cotton, soybeans, tomatoes, tobacco, grapes, fruit trees, flowers, or garden crops and all other hormone herbicide-sensitive desirable plants. Do not apply near sensitive plants since small quantities of herbicide drift may cause severe injury. Do not apply herbicide when wind speed is sufficient to cause drift. Do not apply herbicide when a temperature air inversion exists. An air inversion may be detected by creating a smoke column and observing a layering effect. Do not apply when temperature exceeds 85° F and humidity is high. To aid in avoiding spray drift use coarse sprays and low pressure. The use of thickening agents or anti-drift additives and drift-reducing equipment is of value in preventing spray drift.

**- ORNAMENTAL LAWNS & TURF (cool season grasses other than bentgrass) -**

For use on residential and other turf sites excluding sod farms.

**Clothing Requirement Statements:** When using this product, wear long-sleeved shirt, long pants, socks, shoes, chemical resistant gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection.

**Personal Hygiene Statements:** After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.



Re-entry Statement: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried or dust has settled.

The best results will be obtained from spring or early fall applications when weeds have emerged and are actively growing. Avoid spraying during long, excessively dry or hot periods unless adequate irrigation is available. Do not irrigate within 24 hours after application.

USE PRECAUTIONS: Avoid drift of spray mist to vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. Do not pour spray solutions near desirable plants. Do not use on carpetgrass, dichondra, St. Augustinegrass, bentgrass, nor on lawns or turf where desirable clovers are present. Use only lawn-type sprayers. Avoid fine sprays; coarse sprays are less likely to wind-drift. Do not spray roots of ornamentals and trees. Do not exceed specified dosages for any area; be particularly careful within the dripline of trees and other ornamental species. Do not apply to newly seeded grasses until well established. Do not spray when air temperature exceeds 85°F. Seed can be safely sown 3 to 4 weeks after application. Do not apply this product through any type of irrigation system.

Application Rates: Apply at the rate of 8 to 12 pints in 20 to 260 gallons of water per acre (3.0 to 4.4 fluid ounces in 1 to 6 gallons of water per 1,000 square feet). Use higher rates when using the higher volume of water per acre.

The maximum application rate to turf is 0.8 pounds 2,4-D acid equivalent per acre per application per site. The maximum number of broadcast applications per treatment site is 2 per year.

Controlled Droplet Applicators (CDA): Controlled droplet applicators allow ultra low spray volumes, and EH1073 may be applied at the rate of 8 pints of product per acre (3.0 fluid ounces of product per 1000 square feet). Avoid overlapping between spray patterns. For the Herbi ULV sprayer, add 1.5 pints of EH1073 to 3.5 pints of water and apply this mixture to 8,250 square feet of lawn.

Small Area Applications (Not recommended for hose-end sprayers.): For spot treatments and small areas, mix EH1073 at 3.0 fluid ounces per 1 gallon of water per 1000 square feet or follow the recommendations for pressure sprayers presented below. Spray emerged weeds that are actively growing at any time of the season. On newly established lawns, apply EH1073 after the grass has been mowed at least 3 times. Do not water the lawn within 24 hours after application and observe Use Precautions.

| USE RATES IN ORNAMENTAL LAWNS AND TURF WITH PRESSURE SPRAYERS |                  |                 |                    |
|---|------------------|-----------------|--------------------|
| Amount of Product   |                  | Amount of Water | Area to be Treated |
| 6 Tablespoons   | 3.0 fluid ounces | 1 Gallon        | 1000 Square Feet   |
| 12 Tablespoons  | 6.0 fluid ounces | 2 Gallons       | 2000 Square Feet   |
| 18 Tablespoons  | 9.0 fluid ounces | 3 Gallons       | 3000 Square Feet   |

**LIMITED WARRANTY AND DISCLAIMER.**

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

**BEST AVAILABLE COPY**



The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

GARLON® 4 Herbicide is a registered trademarks of DowElanco.

HY-GRADE I™ is a trademark of CWC Chemical, Inc.

Arborchem Basal Oil is a product of Arborchem Products Co.

Cide-Kick, Cide-Kick II, and JLB Oil Plus are products of JLB International Chemical, Inc.

Andioc® Oil is a product of Habco, Inc