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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 4 1994

James A. Armbruster, Ph.D
PBI/GORDON CORPORATION
P.O. Box 4090
1217 West 12th Street
Kansas City, MO 64101

**OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES**

**Subject: Label Amendment Submission of 09/15/93 in Response to PR Notice 93-7
EPA Reg. No. 2217-774
EH 1068 TRIMEC ESTER**

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is **accepted**. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling
- AND**
- **WITHIN** one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Candle Ink on paper that
contains at least 50% recycled fiber

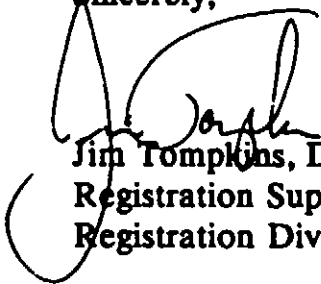
Submit the final printed labeling via the U.S. Postal Service to:

**Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001**

Hand or courier deliveries of final printed labeling may be made to:

**Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202**

Sincerely,



**Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)**

Attachment

2079

EH 1068 TRIMEC® ESTER

A Brush & Broadleaf Herbicide for Noncropland and Turf

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

ACTIVE INGREDIENTS:

* Isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid.....	18.85%
** Isooctyl ester of 2-(2,4-Dichlorophenoxy) propionic acid.....	18.48%
*** Dicamba: 3,6-dichloro-o-anisic acid	3.01%
**** INERT INGREDIENTS.....	<u>59.66%</u>
TOTAL 100.00%	

This product contains:

- ~1.05 lbs. 2,4-Dichlorophenoxyacetic acid equivalent per gallon or 12.50%
- ~1.05 lbs. 2-(2,4-Dichlorophenoxy) propionic acid equivalent per gallon or 12.50%
- ~0.25 lb. 3,6-dichloro-o-anisic acid equivalent per gallon or 3.01%
- ~Contains aromatic petroleum distillates.

Isomer Specific by AOAC Method

TRIMEC® is a registered trademark of PBI/GORDON CORPORATION

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 4 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
2217-774

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

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

XXX/993 AP
EPA REG. NO. 2217-774
EPA EST. NO. 2217-XX-X
Mfd. by PBI/GORDON CORPORATION
KANSAS CITY, MISSOURI 64101

4079

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

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION: Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye injury. Avoid contact with eyes, skin or clothing, or inhaling spray mist.

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 eye protection 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 Swallowed: Call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting in an unconscious person.

If On Skin: Wash with plenty of soap and water. Get medical attention.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferable mouth to mouth. 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, 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 Hazards: 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.

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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 EH1068 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	Sumac
Brambles	Honeysuckle	Sycamore
Buckbrush	Kudzu	Wild Plum
Cedar	Maple	Willow

WEEDS CONTROLLED:

Bedstraw	Knotweed	Ragweed
Bindweed	Kochia	Sheep Sorrel
Black Medic	Lambsquarter	Shepherdspurse
Buckhorn	Lespedeza	Smartweed
Burdock	Mallow	Speedwell
Chicory	Morningglory	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
Henbit	Poison Oak	Wild Onion
Jimsonweed	Purslane	Yarrow

6019

- 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 EH1068 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 EH1068 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: EH1068 and GARLON® 4 Herbicide can be tank-mixed in oil or water carriers for use in forests, 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 EH1068 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 EH1068 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 1.0 to 2.0 gallons of EH1068 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 to 300 gal/A Total Spray Volume	Low Volume Broadcast: 20 to 100 gal/A Total Spray Volume
EH1068	1.0 - 2.0	1.0 - 4.0

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 1.0 to 4.0 gallons of EH1068 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
EH1068	1.0 to 4.0	8 to 25 gal/A

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Basal Bark Method: Mix the appropriate amount of EH1068 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 Volume	Gallons Needed for Desired Volume			
	Gallons	EH1068	Penetrants ¹⁾	Diesel Oil ²⁾
Low Vol 10	6.7	1.0 to 2.0	1.3 to 2.3	—
Low Vol 10	6.7	1.0 to 2.0	—	1.3 to 2.3
High Vol 100	6.0 to 10.0	—	90 to 94	—

¹⁾Penetrants such as Cide-Kick or Cide Kick II may improve control. Penetrant concentrations range from 10 to 20% of the spray volume and the 20% concentration may be more suitable in cold weather. Crop oil concentrates with paraffinic oil concentrations greater than 80% may also be used.

²⁾Mineral oil or kerosene can be substituted for diesel oil.

³⁾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 1.0 to 2.0 gallons of EH1068 with 23 to 24 gallons of diesel oil. For backpack sprayers or other equipment mix 20 to 40 fluid ounces of EH1068 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 6 to 8 gallons of EH1068 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.

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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 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 4 to 6 pints in 20 to 260 gallons of water per acre (1.5 to 2.2 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 EH1068 may be applied at the rate of 4 pints of product per acre (1.5 fluid ounces of product per 1000 square feet). Avoid overlapping between spray patterns. For the Herbi ULV sprayer, add 1.5 pints of EH1068 to 3.5 pints of water and apply this mixture to 16,500 square feet of lawn.

Small Area Applications (Not recommended for hose-end sprayers.): For spot treatments and small areas, mix EH1068 at 1.5 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 EH1068 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
3 Tablespoons	1.5 fluid ounces	1 Gallon	1000 Square Feet
6 Tablespoons	3.0 fluid ounces	2 Gallons	2000 Square Feet
9 Tablespoons	4.5 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.

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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.
Androc Oil is a product of Habco, Inc..