PM-23 Reg # 2217-774 7/8/96 1 of 13

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 05-31-98

EPA United States Environmental Protection Agency Washington, DC 20460

☐ Registration ☒ Amendment ☐ Other

OPP Identifier Number: 244138

Application for Pesticide - Section I

1. Company/Product Number: 2217-774

2. EPA Product Manager: Joanne I Miller

3. Proposed Classification: ☒ None ☐ Restricted

4. Company/Product (Name): EH 1068 Trimec® Ester

PM#: (PM 23)

5. Name and Address of Applicant *(Include ZIP Code)*:
PBI/Gordon Corporation
P.O. Box 014090
1217 West 12th Street
Kansas City, MO 64101
☐ *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:
EPA Reg. No. _____
Product Name _____

Section - II

☒ Amendment - Explain below.
☐ Resubmission in response to Agency letter dated _____
☐ Notification - Explain below.
☐ Final printed labels in response to Agency letter dated _____
☐ "Me Too" Application.
☐ Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Amendment for use deletions: The Industry Task Force II on 2,4-D Research Data will not generate the required data for 2,4-D 2-EHE to support the uses for rice, sugarcane, aquatic food uses, and aquatic nonfood uses. PBI/Gordon Corporation intends to maintain our generic data exemption, and we will not commit to generate the required data for the unsupported uses. We intend to delete the unsupported uses from the labeling of this product registration as described in an Agency letter dated June 3, 1996. Five (5) copies of the revised labeling are enclosed and the use deletions are highlighted as strikeouts.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes* ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
*ertification must be submitted	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information: ☐ Label ☐ Container

4. Size(s) Retail Container

5. Location of Label Directions: ☐ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product: ☐ Lithograph ☐ Paper glued ☐ Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
James A. Armbruster, Ph.D	Vice President, Regulatory Services	(816) 421-4070

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature: J. A. Armbruster

3. Title: Vice President, Regulatory Services

4. Typed Name: James A. Armbruster, Ph.D

5. Date: June 20, 1996

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

2913

Official Name: **EH 1068 TRIMEC® ESTER**

Brand Name: **TRIMEC® BRUSHMASTER BRUSHKILLER**

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.....	59.66%
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

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

774/ APXXXXXX
EPA REG. NO. 2217-774
EPA EST. NO. 2217-KS-1
Mfd. by PBI/GORDON CORPORATION
KANSAS CITY, MISSOURI 64101

EPA No. 2217-774

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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FOR INDUSTRIAL SITES ONLY:

Clothing Requirement Statements: When mixing, loading or applying this product, or repairing or cleaning equipment used with 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: 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 days 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.

FOR TURF SITES ONLY:

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.

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 IN EYES: Flush with plenty of water. Call a physician if irritation persists.
IF SWALLOWED: Call a physician or Poison Control Center immediately. Contains petroleum solvent. Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pnuemonitis. If spontaneous vomiting occurs, keep head below hips to prevent aspiration, and monitor for breathing difficulty.
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, preferably 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, 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 HAZARDS: Do not use or store near heat or open flame.

OPTION I:

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.

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

AND

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

— APPLICATION TIMING FOR MIXED BRUSH —

Spraying can be effective throughout the growing season from full leaf to leaf drop for mixed brush. Full cover 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	Lambsquarters	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
Healall	Poison Ivy	Wild Lettuce
Henbit	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 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 roadsides, right-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.

6 9 13

— BROADCAST FOLIAR APPLICATION —

Mixed Brush Applications With Ground Equipment: For high volume foliar application: Use 1.0 to 2.0 gallons of EH1068 in 100 gallons of water (1.0 to 2.0% volume/volume) and apply as a full cover spray wetting all leaves, stems, and root collars of 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.

For low volume broadcast applications: Use 1.0 to 4.0 gallons of EH 1068 per acre in 20 to 100 gallons of water. Use the higher dosage rates and spray volumes with hard to control species with dense canopies or under drought conditions.

Table 1. 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 Foliar: 100 to 300 gal/A Total Spray Volume	Low Volume Broadcast: 20 to 100 gal/A Spray Volume
EH1068	1.0 to 2.0	1.0 to 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 per acre in 8 to 25 gallons of water with aerial applications for mixed brush in noncropland areas (Table 2). 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.

Table 2. 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

— BASAL AND DORMANT APPLICATIONS —

Basal Bark Method: 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. Thorough coverage is required for all basal treatments.

For full oil or undiluted low volume applications: Mix a full oil spray containing 6.7 gallons of EH 1068, 1.3 to 2.3 gallons of diesel oil, and 1.0 to 2.0 gallons of penetrants. Substitutes for diesel oil include mineral oil, kerosene, and oil blends formulated for basal bark applications. Penetrants appropriate for oil soluble herbicides may improve control. Refer to Table 3.

Table 3. Use Rates for Basal Bark Method with Low Volume Applications

Volume of Spray Solution	Gallons Needed for Desired Volume			
Gallons	EH1068	Penetrants[a]	Diesel Oil[b]	Basal Oil[c]
10	6.7	1.0 to 2.0	1.3 to 2.3	—
10	6.7	1.0 to 2.0	—	1.3 to 2.3

[a]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 pariffinic oil concentrations greater than 80% may also be used.
[b]Mineral oil or kerosene can be substituted for diesel oil.
[c]Androc Oil, Hygrade I, Arborchem Basal Oil, JLB Oil Plus, or other proprietary basal oils may be used.

For full oil or diluted high volume applications: Mix 6.0 to 10.0 gallons of EH 1068 with 90 to 94 gallons of oil (diesel oil, No. 1 or No. 2 fuel oil, kerosene, or mineral oil).

For backpack sprayers, knapsack sprayers, and hand pump sprayers: Mix 5.0 to 10.0 fluid ounces (fl. oz.) of EH1068 with 1 gallon of oil (diesel oil, No. 1 or No. 2 fuel oil, kerosene, mineral oil, or oil blends formulated for basal bark applications). Or, use the equivalent spray concentration of 4.0 to 8.0% volume/volume.

Spray volumes will depend upon the sizes, types and densities of brush present. 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.

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.

For ground equipment: Mix 1.0 to 2.0 gallons of EH1068 with 23 to 24 gallons of oil (diesel oil, No. 1 or No. 2 fuel oil, kerosene, mineral oil or other oil blends formulated for basal applications. Or, use the equivalent spray concentration of 4.0 to 8.0% volume/volume.

For backpack sprayers, knapsack sprayers, and hand pump sprayers: Mix 5.0 to 10.0 fluid ounces (fl.oz.) of EH1068 with 1.0 gallon of oil (diesel oil, No.1 or No. 2 fuel oil, kerosene, mineral oil, or other oil blends formulated for basal applications. Spray thoroughly the cut surfaces, bark, and exposed roots. Treat entire circumference of the tree. 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 oil and treat freshly cut frills at any time of the year. Or, mix 8.0 to 10.0 fluid ounces (fl.oz) of EH1068 with 1.0 gallon of oil (diesel oil, No. 1. or No. 2 fuel oil, kerosene, mineral oil, or other oil blends formulated for basal applications). 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) –

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

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 RESIDENTIAL 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

OPTION II: Proposed Text for Gordon's Brushmaster® Herbicide.

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.

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

AND

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

— APPLICATION TIMING FOR MIXED BRUSH —

Spraying can be effective throughout the growing season from full leaf to leaf drop for mixed brush. Full cover 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 Gordon's Brushmaster® Herbicide 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	Oak
Aspen	Cottonwood	Pine
Birch	Dogwood	Shortleaf Pine
Blackberry	Elm	Spruce
Black Cherry	Gooseberry	Sumac
Black Locust	Honey Locust	Sycamore
Brambles	Honeysuckle	Wild Plum
Buckbrush	Kudzu	Willow
Cedar	Multiflora Rose	

WEEDS CONTROLLED:

Bedstraw	Knotweed	Ragweed
Bindweed	Kochia	Sheep Sorrel
Black Medic	Lambsquarters	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
Healall	Poison Ivy	Wild Lettuce
Henbit	Poison Oak	Wild Onion
Jimsonweed	Purslane	Yarrow

— BROADCAST FOLIAR APPLICATIONS —

Mixed Brush Applications With Ground Equipment: For high volume foliar application: Use 1.0 to 2.0 gallons of Gordon's Brushmaster® Herbicide in 100 gallons of water (1.0 to 2.0% volume/volume) and apply as a full cover spray wetting all leaves, stems, and root collars of 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.

Spray Preparation:
Add one-half of the required amount of water to the spray tank, then add slowly Gordon's Brushmaster® Herbicide with agitation, and complete filling the tank with water. To prevent separation of the emulsion, mix thoroughly and continue agitation while spraying.

Refer to TABLE 1. for additional spray preparation instructions with water.

Table 1. Quick-mix instructions for preparing 1 to 100 gallons of spray solution at 1.0 to 2.0% concentrations.

Spray Solution, Gallons	Amounts of Brushmaster® required for:		
	1%	1 1/2%	2%
1	1 1/3 fluid ounces	2 fluid ounces	2 2/3 fluid ounces
3	4 fluid ounces	6 fluid ounces	8 fluid ounces
5	6 2/3 fluid ounces	10 fluid ounces	13 1/3 fluid ounces
50	1/2 gallon	3/4 gallon	1 gallon
100	1 gallon	1 1/2 gallon	2 gallon
Equivalent Measures: 1 gallon = 128 fluid ounces = 4 quarts			

— BASAL, CUT SURFACE, AND FRILL APPLICATIONS —

Basal Bark Method: 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. Thorough coverage is required for all basal treatments.

Spray volumes will depend upon the sizes, types and densities of brush present. 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.

Spray Preparation with Oil: Add one-half the required amount of diesel oil (No. 1 or No. 2 fuel oil) to the spray tank, then add Gordon's Brushmaster® Herbicide with agitation and complete filling the tank with diesel oil. Mix thoroughly and provide adequate agitation during mixing and spraying. Substitutes for diesel oil include mineral oil, kerosene, and oil blends formulated for basal bark applications. Penetrants appropriate for oil soluble herbicides may improve control.

For backpack sprayers, knapsack sprayers, and hand pump sprayers: Mix 10.0 fluid ounces (fl. oz.) of Gordon's Brushmaster® Herbicide with 1 gallon of oil (diesel oil, No. 1 or No. 2 fuel oil, kerosene, mineral oil, or oil blends formulated for basal bark applications). Or, use the equivalent spray concentration of 8.0% volume/volume.

Refer to TABLE 2 for additional spray preparation instructions with oil.

Table 2. Quick-mix instructions for preparing 1 to 5 gallons of spray solution with oil for basal bark, cut surface, and frill applications.

Spray Solution, Gallons	Amounts of Brushmaster® required, fluid ounces
1	10 (1 1/4 cups)
2	20 (1 1/4 pints)
3	30 (1 7/8 pints)
5	50 (3 1/8 pints)
Equivalent Measures:	8 fluid ounces = 1 cup 16 fluid ounces = 1 pint

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.

For backpack sprayers, knapsack sprayers, and hand pump sprayers: Mix 10.0 fluid ounces (fl.oz.) of Gordon's Brushmaster® Herbicide with 1.0 gallon of oil (diesel oil, No.1 or No. 2 fuel oil, kerosene, mineral oil, or other oil blends formulated for basal applications. Refer to TABLE 2 for spray preparation. Spray thoroughly the cut surfaces, bark, and exposed roots. Treat entire circumference of the tree. 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 10.0 fluid ounces (fl.oz) of Gordon's Brushmaster® Herbicide with 1.0 gallon of oil (diesel oil, No. 1. or No. 2 fuel oil, kerosene, mineral oil, or other oil blends formulated for basal applications). Refer to TABLE 2 for spray preparation. Spray or pour the spray mixture into the frills without runoff.

USE PRECAUTIONS FOR ALL METHODS OF APPLICATION: 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) —

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

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 of product in 20 to 260 gallons of water per acre (1.5 to 2.2 fluid ounces of product 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.

Small Area Applications (Not recommended for hose-end sprayers.): For spot treatments and small areas, mix Gordon's Brushmaster® Herbicide 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 Gordon's Brushmaster® Herbicide 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 RESIDENTIAL 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.

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 trademark 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..