

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM JE 2217-789

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SEP 26 1995

James A. Armbruster, Ph.D.
 PBI/Gordon Corporation
 P.O. Box 14090
 1217 West 12th Street
 Kansas City, MO 64101

Dear Dr. Armbruster:

SUBJECT: Revised Labeling - Remove Restricted Use Classification
 Trimec (R) 1144 40% SP
 EPA Registration No. 2217-789
 Your Submission Dated July 26, 1995

The amendment referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable provided that you submit one (1) copy of your final printed labeling before you release the product for shipment.

Sincerely yours,

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

Enclosure

CONCURRENCES

SYMBOL	7505C							
SURNAME	DMorgan							
DATE	Sep 25, 1995							

TRIMEC® 1144 40% SP

FOR SALE TO, USE AND STORAGE BY PROFESSIONAL
TURF MAINTENANCE PERSONNEL ONLY.

NOT FOR SALE TO HOMEOWNERS

ACTIVE INGREDIENTS:

2,4-Dichlorophenoxyacetic acid.....	25.34%
2-(2-methyl-4-chlorophenoxy) propionic acid.....	13.75%
Dicamba (3,6-dichloro-o-anisic acid).....	2.80%

INERT INGREDIENTS:..... 58.11%

TOTAL 100.00%

TRIMEC® is a registered trademark of PBI/GORDON CORPORATION.
Isomer Specific by AOAC Method

KEEP OUT OF REACH OF CHILDREN

DANGER

See side panels for Precautionary Statements
and Statement of Practical Treatment

ACCEPTED
with COMMENTS
In EPA Letter Dated

SEP 26 1995

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

2217-789

NET CONTENTS

50 POUNDS (25 - 2.0 lb Water Soluble Bags)

52 POUNDS (13 - 4.0 lb Water Soluble Bags)

AP072695

EPA REG NO 2217-789

EPA EST NO 2217-KS-X

Mfd. by PBI/GORDON CORPORATION

KANSAS CITY, MISSOURI 64101

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, or on skin, or clothing. Wear goggles or face shield, protective clothing, and rubber gloves during mixing and loading. Due to corrosive nature, may be harmful or fatal if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. After the product has been diluted in accordance with the "Directions for Use", goggles or face shield are not required.

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.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Call physician. Keep eyelids open and flush with a gentle, steady stream of water for 15 minutes.

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

IF SWALLOWED: Drink promptly a large quantity of milk, egg white or gelatin mixture, or if these are not available a large quantity of water. Avoid alcohol. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS: 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 of equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPP 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.

DIRECTIONS FOR USE

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

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

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.

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STORAGE & DISPOSAL

OPTION I: For Paper and Plastic Bags

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

STORAGE: Store in original container in a locked storage area inaccessible to children or pets.

PESTICIDE DISPOSAL: Pesticide wastes are toxic and may contaminate groundwater. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

OPTION II: For Water Soluble Packaging

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

STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Exposure of the water soluble bags to moisture prior to mixing may cause the water soluble bag to rupture.

PESTICIDE DISPOSAL: Pesticide wastes are toxic and may contaminate groundwater. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Do not reuse outer bag. Dispose of outer bag and shipping container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

- SITES -

This product is intended to be applied by lawn care operators and landscape personnel for use in ornamental lawns and turf established in institutional, ornamental, and residential/domestic sites. Institutional sites are defined as turf areas around properties or facilities providing a service to public or private organizations including, but not limited to hospitals, nursing homes, schools, museums, libraries, sport facilities and golfcourses. Ornamental sites include turfgrass established around residences, parks, streets, retail outlets, cemeteries and institutional buildings. Finally, residential/domestic sites are defined as areas associated with the household or home life including, but not limited to apartment complexes, condominiums, and patient care areas of nursing homes, mental institutions, hospitals, or convalescent homes.

Trimec[®] 1144 provides selective broadleaf control in warm season and cool season turfgrass. Established turf of bermudagrass, bentgrass, bahiagrass, zoysiagrass, Kentucky bluegrass, perennial ryegrass, tall fescue and turf-type tall fescues may be treated.

- MIXING INSTRUCTIONS WITH WATER AS THE CARRIER -

OPTION I: For Paper and Plastic Bags

1. Fill the spray tank with 1/2 to 3/4 of the required amount of water and begin agitation. Sufficient agitation during mixing and application is essential.
2. Add Trimec[®] 1144 into the spray tank and maintain continuous agitation.
3. Fill the spray tank to 3/4 of the required amount of water. If tank-mixtures are being prepared, add the companion product when the spray tank is approximately 1/4 full.
4. Finally, add the balance of the required water volume and maintain agitation prior to and during the application.

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OPTION II: For Water Soluble Packaging

1. Fill the spray tank with 1/2 to 3/4 of the required amount of water and begin agitation. Sufficient agitation during mixing and application is essential.
2. The number of water soluble bags required to treat various areas is presented in Table 1. Remove the required number of water soluble bags from the outer bag or over-packing bag. Drop the required number of unopened water soluble bags containing Trimec® 1144 into the spray tank. Allow time for each bag to disperse completely before adding another water soluble bag. Maintain continuous agitation to avoid separation.
3. Fill the spray tank to 3/4 of the required amount of water. If tank-mixtures are being prepared, add the companion product when the spray tank is approximately 3/4 full.
4. Finally, add the balance of the required water volume and maintain agitation prior to and during the application.

- MIXING INSTRUCTIONS FOR FERTILIZER/HERBICIDE COMBINATIONS -

Trimec® 1144 can be tank-mixed with fluid fertilizers. Fertilizer solutions and fertilizer suspensions will vary in density, viscosity, and nutrient analysis and will react differently than water in tank-mixture combinations. Because manufacturers may change formulations, the compatibility of tank-mixture combinations needs to be verified on a small scale before the tank-mixtures are prepared for an actual application.

- APPLICATION RATES FOR WARM SEASON AND COOL SEASON GRASSES -

OPTION I: For Paper and Plastic Bags

FOR BERMUDAGRASS, BAHIA GRASS, ZOYSIAGRASS, KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, TALL FESCUE, TURF-TYPE TALL FESCUES: Apply Trimec® 1144 at the rate of 3.5 to 4.0 pounds of product per acre per application with spray volumes of 20 to 240 gallons per acre. Or, apply Trimec® 1144 at the rate of 1.3 to 1.5 ounces of product per 1000 square feet per application with spray volumes ranging from 0.5 to 5.5 gallons per 1000 square feet of turfgrass.

The best control of weeds will be obtained from spring or early fall applications when weeds are actively growing. Avoid broadcast applications during long excessively dry or hot periods unless adequate irrigation is available.

The maximum application rate to turf is 1.0 pound 2,4-D acid equivalent per acre per application site. The maximum number of broadcast applications per treatment site is 2 per year.

FOR BENTGRASS. On close-mowed bentgrass (putting greens, bowling greens, and show lawns):

The maximum application rate to bentgrass is 0.67 ounces of product per 1000 square feet per application with spray volumes greater than 3.5 gallons per 1000 square feet of turf. Or, the equivalent application rate is 1.8 pounds of product per acre per application with spray volumes higher than 150 gallons per acre.

Do not apply when bentgrass is under stress from drought or high temperatures.

Care should be taken to avoid overdosing bentgrass or injury may result. Uniform applications are essential and avoid overlaps that will increase the dosage rate above those recommended. Slight yellowing of turf will disappear after about one week.

If hand-type sprayers are used it is preferable to use a single nozzle sprayer rather than a multiple nozzle boom. Sweeping movements with a multiple nozzle boom will result in heavy local over-application and subsequent turf discoloration or injury.

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OPTION II: For Water Soluble Packaging With 4.0 Pound Size

FOR BERMUDAGRASS, BAHIAGRASS, ZOYSIAGRASS, KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, TALL FESCUE, TURF-TYPE TALL FESCUES: Apply Trimec® 1144 at the rate of 3.5 to 4.0 pounds of product per acre per application with spray volumes of 20 to 240 gallons per acre. Or, apply Trimec® 1144 at the rate of 1.3 to 1.5 ounces of product per 1000 square feet per application with spray volumes ranging from 0.5 to 5.5 gallons per 1000 square feet of turfgrass.

The best control of weeds will be obtained from spring or early fall applications when weeds are actively growing. Avoid broadcast applications during long excessively dry or hot periods unless adequate irrigation is available.

The maximum application rate to turf is 1.0 pound 2,4-D acid equivalent per acre per application site. The maximum number of broadcast applications per treatment site is 2 per year.

Each 4.0 pound water soluble bag will treat 1.0 to 1.14 acres or 44,000 to 50,000 square feet of turf. The required number of water soluble bags required to treat various areas is presented in Table 1.

- TABLE 1 -

Number of water soluble packets containing 4.0 pounds of Trimec® 1144 to treat various areas at application rates of 3.5 to 4.0 pounds of product per acre.

Area to be Treated		Application Rates of	
Acres	1000 ft ²	3.5 lbs/acre	4.0 lbs/acre
		Number of Water Soluble Bags	
1.0	44	----	1
1.1	50	1	----
2.0	87	----	2
2.3	100	2	----
3.0	131	----	3
3.4	150	3	----

OPTION III: For Water Soluble Packaging With 2.0 Pound Size

FOR BERMUDAGRASS, BAHIAGRASS, ZOYSIAGRASS, KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, TALL FESCUE, TURF-TYPE TALL FESCUES: Apply Trimec® 1144 at the rate of 3.5 to 4.0 pounds of product per acre per application with spray volumes of 20 to 240 gallons per acre. Or, apply Trimec® 1144 at the rate of 1.3 to 1.5 ounces of product per 1000 square feet per application with spray volumes ranging from 0.5 to 5.5 gallons per 1000 square feet of turfgrass.

The best control of weeds will be obtained from spring or early fall applications when weeds are actively growing. Avoid broadcast applications during long excessively dry or hot periods unless adequate irrigation is available.

The maximum application rate to turf is 1.0 pound 2,4-D acid equivalent per acre per application site. The maximum number of broadcast applications per treatment site is 2 per year.

Each 2.0 pound water soluble bag will treat 0.50 to 0.57 acres or 22,000 to 25,000 square feet of turf. The required number of water soluble bags required to treat various areas is presented in Table 1.

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- TABLE 1 -

Number of water soluble packets containing 2.0 pounds of Trimec® 1144 to treat various areas at application rates of 3.5 to 4.0 pounds of product per acre.

Area to be Treated		Application Rates of	
Acres	1000 ft ²	3.5 lbs/acre	4.0 lbs/acre
		Number of Water Soluble Bags	
0.5	22	-----	1
0.6	25	1	-----
1.0	44	-----	2
1.1	50	2	-----
1.5	65	-----	3
1.7	75	3	4
2.3	100	4	-----

FOR BENTGRASS. On close-mowed bent grass (putting greens, bowling greens, and show lawns):

The maximum application rate to bentgrass is 0.67 ounces of product per 1000 square feet per application with spray volumes greater than 3.5 gallons per 1000 square feet of turf. Or, the equivalent application rate is 1.8 pounds of product per acre per application with spray volumes higher than 150 gallons per acre. Each 2.0 pound water soluble bag will treat 48,000 square feet or 1.1 acre of closely mowed bentgrass.

Do not apply when bentgrass is under stress from drought or high temperatures.

Care should be taken to avoid overdosing bentgrass or injury may result. Uniform applications are essential, and avoid overlaps that will increase the dosage rate above those recommended. Slight yellowing of turf will disappear after about one week.

If hand-type sprayers are used it is preferable to use a single nozzle sprayer rather than a multiple nozzle boom. Sweeping movements with a multiple nozzle boom will result in heavy local over-application and subsequent turf discoloration or injury.

- APPLICATION INFORMATION AND USE PRECAUTIONS -

1. Use only lawn type sprayers. Avoid drift of spray mist onto vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. Avoid spraying during long, excessively dry or hot periods unless adequate irrigation is available. Do not irrigate within 24 hours after application.
2. Do not spray on dichondra, carpetgrass, centipedegrass, St. Augustinegrass nor on lawns or turf where desirable clovers are present.
3. Do not spray exposed roots of trees and ornamentals. Be careful within the dripline of trees and other ornamental species. Do not exceed specified dosages for any area.
4. Do not apply to newly seeded lawns until well established or after two to three mowings.
5. Do not broadcast apply when air temperature exceeds 85° F; some injury may be expected with spot treatments when air temperatures exceeds 85° F.
6. Seed can be sown 3 to 4 weeks after herbicide application.
7. Do not apply this product through any type of irrigation system.
8. After using this product, clean sprayer with Gordon's Spray Tank Cleaner and water, and rinse thoroughly before applying other pesticides.
9. Failure to observe the above precautions may result in injury.

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WEEDS CONTROLLED		
Bedstraw	Henbit	Purslane
Black Medic	Knotweed	Ragweed
Buckhorn	Lambsquarters	Sheep Sorrel
Burdock	Lespedeza	Shepherdspurse
Chicory	Mallow	Speedwell
Chickweed	Morningglory	Spurge
Clover	Peppergrass	Wild Carrot
Dandelion	Pigweed	Wild Garlic
Dock	Plantains	Wild Lettuce
Ground Ivy	Poison Ivy	Wild Onion
Healall	Poison Oak	Yarrow

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.