

2217-856

02/20/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:
2217-856

Date of Issuance:
FEB 20 2003

Term of Issuance:
Conditional

Name of Pesticide
EH-1400 Herbicide

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

PBI/Gordon Corporation
Post Office Box 014090
Kansas City, Missouri 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 registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

- 1. Add the phrase "EPA Registration No. 2217-856 to the label before you release the product for shipment.

COMMENTS CONTINUED ON PAGE 2 OF THIS NOTICE OF REGISTRATION

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product under the enclosed stamped copy of the label constitutes acceptance of these conditions.

Enclosure

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

Signature of Approving Official:

Joanne I. Miller

Date:

FEB 20 2003

Comments Continued:

2. As this product is a residential/household use pesticide product, the " Disposal" section must Comply with PR Notice 2001-6, dated September 7, 2001. Revise the label to reflect the appropriate statements.
3. Submit the required Storage Stability and Corrosion Characteristics (EPA Guidelines Data 830.6317 and 830.6320, respectively) for this pesticide product within one year from the date of this Notice of Pesticide Registration.
4. Submit and/or cite all data required for the registration of this product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of this product under FIFRA, section 4.
5. On page 15 of 17, delete the boxed New York State statement that reads: "Do not exceed 0.5 pounds active ingredient dithiopyr per year. Do not exceed 0.25 pound active ingredient per year in Nassau and Suffolk Counties."
6. Submit one (1) copy of the final printed labeling before you release this product for shipment.

EH-1400 HERBICIDE

ACTIVE INGREDIENTS:

2,4-D.....	0.64%
Mecoprop-p.....	0.14%
Dicamba.....	0.06%
Dithiopyr.....	0.19%

OTHER INGREDIENTS:	98.97%
TOTAL	100.00%

THIS PRODUCT CONTAINS:

- 12.80 lbs. 2,4-dichlorophenoxyacetic acid equivalent per ton.
- 2.80 lbs. (+)-(R)-2-(2-methyl-4-chlorophenoxy)propionic acid equivalent per ton.
- 1.20 lbs. 3,6-dichloro-o-anisic acid equivalent per ton.
- 3.80 lbs. dithiopyr per ton

CAS Registry Numbers:

- 2,4-D CAS No. 94-75-7
- Mecoprop-p CAS No. 16484-77-8
- Dicamba CAS No. 1918-00-9
- Dithiopyr CAS No. 97886-45-8

Isomer Specific by AOAC Methods

Contains the single isomer form of Mecoprop-p.

EPA File Symbol 2217-1LA

DIMENSION® is a registered trademark of Dow AgroSciences, L.L.C.

TRIMEC® is a registered trademark of PBI/GORDON CORPORATION.

(L) (D)

EPA Est. 951-PA-01:961-IL-01

Superscript used is first letter of lot number.

GUARANTEED FERTILIZER ANALYSIS	
Total Nitrogen (N).....	x.x%
x.x% Ammoniacal Nitrogen	
x.x% Water Insoluble Nitrogen	
x.x% Urea Nitrogen	
x.x% Other Water Soluble Nitrogen	
Available Phosphate (P ₂ O ₅).....	x.x%
Soluble Potash (K ₂ O).....	x.x%
Iron (Fe).....	x.x%
Nutrient Sources: (Guaranteed analysis and nutrient sources to be supplied based on fertilizer analysis used by manufacturer).	

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for Precautionary Statements.

NOTICE: Read the entire label. Use only according to label directions.
Before using this product, read the Warranty Section elsewhere on this label.
If terms are not acceptable, return the unopened container at once.

**ACCEPTED
with COMMENTS
In EPA Letter Dated
FEB 20 2003**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
7217-826**

New York State: In New York State, dithiopyr is a restricted use product listed according to the Environmental Conservation Law, Section 326.2. This provision limits this product for use by commercial pesticide applicators only at no more than 6 lbs. of product per 1,000 sq. ft. per year (0.5 pound of dithiopyr per acre per year), and is prohibited from use in Nassau and Suffolk Counties. Use only according to label instructions.

NET WEIGHT: (16, 18, 20, 30,40, or 50) POUNDS

MANUFACTURED BY:



Telephone: 1-800-821-7925



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

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

First Aid

If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information in case of emergency, call toll free 1-800-xxx-xxxx.</p>	

ENVIRONMENTAL HAZARDS:

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift or runoff from treated turf may adversely affect nontarget plants and aquatic organisms in adjacent aquatic sites. 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 apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwaters.

For 2,4-D acid, MCPP-p acid and dicamba acid components: Drift or runoff from treated turf may adversely affect nontarget plants. 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 washwater on the ground; spray or drain over a large area away from wells and other water sources.

Sublabel 1: Directions for Use intended for occupational users.

DIRECTIONS FOR USE

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

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 Restrictions: Do not enter or allow people or pets to enter the treated area until dusts have settled. If incorporation is accomplished by water-in, do not enter or allow others to enter the treated area until the surface is dry after water-in.

Storage and Disposal

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

STORAGE: Keep in original container in a cool, dry area, away from extreme heat and direct sunlight. Do not store near food feed, seeds or other pesticides.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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: Paper and plastic bags: 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.

GENERAL INFORMATION

EH-1400 Herbicide provides broad-spectrum control of broadleaf weeds and annual grasses in established cool season or warm season turfgrasses. This product is effective in controlling over 200 established broadleaf weeds, such as dandelion, thistle and clover. This product provides preemergent control of annual grass weeds including crabgrass, goosegrass and barnyardgrass when applied before the emergence of crabgrass from the soil in established lawns.

Also, this product can provide late preemergent or early post emergent control of crabgrass only. This early post emergent control is limited, and the crabgrass control can be obtained only when this product is applied before the tillering stage of crabgrass. Post emergent crabgrass control will be obtained only when this product is applied before the first tiller stage of crabgrass.

The benefit of this product's early post emergent activity is that the user may have a longer period of 2-4 weeks to make applications to control crabgrass.

RESEEDING, OVERSEEDING, OR SPRIGGING

Reseeding, overseeding, or sprigging of treated areas within eight weeks after a single application of this product, or four months after the last application of a split application program totaling more than 1.25 lbs. dithiopyr per acre, may inhibit the establishment of desirable turfgrasses. Overseeding bermudagrass with perennial ryegrass may be made eight weeks after an application of this product.

For best results for annual grass control, cultural practices that disturb the soil, such as core-, spike-, or hydro-aerification, and verticutting, should be done before application of this product.

When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed-to-soil contact.

PREEMERGENT AND EARLY POSTEMERGENT CONTROL OF CRABGRASS (DITHIOPR COMPONENT)

This product provides preemergent control of crabgrass (including the large, smooth, and southern species) when applied prior to the emergence of crabgrass in established lawns and ornamental turf.

This product can also provide early postemergent control of crabgrass only during the early stages of growth. Early postemergent crabgrass control will be obtained only when this product is applied prior to the tillering of crabgrass, which generally corresponds to the time when you can first easily see the crabgrass plants in the lawn or turf.

POSTEMERGENT CONTROL OF BROADLEAF WEEDS (2,4-D, MCPP-p and dicamba components)

This product provides postemergent control of more than 200 established broadleaf weeds. A partial list of broadleaf weeds is presented on this label.

2,4-D, MCPP-p and dicamba are common names for three herbicide components formulated and marketed as Trimec® Herbicide. These herbicides are absorbed through the leaves and translocated to the roots. For adequate weed control, this product must come into contact with the leaves of broadleaf weeds.

- Mow lawn to normal height 1 to 2 days before application.
- Water lawn thoroughly at least 1 day before application to sustain moisture until next watering.
- Apply when weeds are young and actively growing, preferably in the morning when dew is on the grass. If grass is not moist at time of application, sprinkle lightly with water to hold the material on the broadleaf weeds.

EH-1400 Herbicide is recommended for use on the following established turf species:

Established Cool Season Turfgrasses—Kentucky bluegrass, perennial ryegrass, fine fescues (red, chewings, and hard) and tall fescue, creeping bentgrass.

Established Warm Season Turfgrasses—Bahagrass, bermudagrass, buffalograss, centipedegrass, zoysiagrass, St. Augustinegrass.

- Do not use this product on colonial bentgrass, dichondra, carpetgrass, or turfgrass when desirable clovers are present.
- Do not use this product on 'Floritam' St. Augustinegrass.
- The use of this product on certain varieties of fine fescues may result in undesirable turfgrass injury. Use of this product may result in undesirable injury on certain cultivars of fine fescues and not all cultivars have been tested. The following cultivars of fine fescues have demonstrated sensitivity to this product: 'Atlanta', 'Banner', 'Beauty', 'Biljart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf' and 'Waldina'.
- Do not use this product on golf course putting greens.

USE PRECAUTIONS AND RESTRICTIONS

- This product may be used on seeded, sodded or sprigged lawns that are well established. The grass should have developed good root system and have received three (3) mowings following its seeding, sodding, or sprigging before it can receive the first application of this product.
- The use of EH-1400 Herbicide on lawns and ornamental turfgrasses that are not well established, or have been weakened by stress due to mechanical operations, chemical injury, disease, insects, pests, excessive temperatures, or lack of moisture may increase the chances for turfgrass injury. Allow turfgrass weakened by these stresses to recover before application of this product.
- Do not use this product on flowers, vegetables, groundcovers, gardens or landscape plantings with shrubs and trees. Do not exceed specified dosage for any area.
- Do not reseed, overseed or sprig treated areas for 8 weeks after application.
- Do not use clippings from treated areas for composting and/or mulching vegetables or fruit trees.
- Do not contaminate domestic or irrigation waters.

Tips for improved control:

- For broadleaf weed control: Do not irrigate the lawn for one day (24 hours) after application. Rainfall or irrigation (greater than ½ inch) at 2-7 days after application may optimize the weed control.

- WEEDS CONTROLLED -			
When applied as directed, EH-1400 Herbicide will control and/or suppress* the following weeds:			
Annual Bluegrass* (<i>Poa annua</i>)	Barnyardgrass	Crowfootgrass	Foxtail (green and yellow)
	Annual Ryegrass	Crabgrass (large, smooth, and Southern)	Goosegrass*
Kikuyugrass* (seedling)	Smutgrass (seedling)		

*Suppression is denoted with an asterisk.

- WEEDS CONTROLLED (Continued) -

Broadleaf Weeds:

Annual yellow sweetclover	Cockle	Musk thistle	Spiny cocklebur
Aster	Cocklebur	Mustard	Spiny sowthistle
Austrian fieldcress	Common mullein	Narrowleaf plantain	Spotted catsear
Bedstraw	Creeping jenny	Narrowleaf vetch	Spotted spurge
Beggarticks	Cudweed	Nettle	Spurweed
Betony, Florida	Curly dock	Orange hawkweed	Stinging nettle
Bindweed, field	Daisy, English	Oriental cocklebur	Strawberry, India mock
Bird vetch	Daisy fleabane	Oxalis	Tall nettle
Bitter wintercress	Daisy, oxeye	Parsley-piert	Tall vervain
Bittercress, hairy	Dandelion	Parsnip	Tansy ragwort
Bitterweed	Dichondra	Pearlwort	Tansy mustard
Black-eyed Susan	Dogfennel	Pennycress	Tanweed
Black medic	Dollarweed	Peppergrass	Thistle
Black mustard	False dandelion	Pepperweed	Trailing crownvetch
Blackseed plantain	Falseflax	Pigweed	Tumble mustard
Blessed thistle	False sunflower	Pineappleweed	Tumble pigweed
Bloodflower milkweed	Fiddleneck	Pineywoods bedstraw	Velvetleaf
Blue lettuce	Florida pusley	Plains tickseed	Venice mallow
Blue vervain	Frenchweed	Plantain	Virginia buttonweed
Bracted plantain	Galinsoga	Poison ivy	Virginia creeper
Brassbuttons	Goathead	Poison oak	Virginia pepperweed
Bristly oxtongue	Goldenrod	Pokeweed	Wavyleaf bullthistle
Broadleaf dock	Ground ivy	Poorjoe	Western clematis
Broadleaf plantain	Gumweed	Prairie sunflower	Western salsify
Broomweed	Hairy fleabane	Prickly lettuce	White mustard
Buckhorn	Hawkweed	Prickly sida	Wild aster
Buckhorn plantain	Healall	Prostrate knotweed	Wild buckwheat
Bulbous buttercup	Heartleaf drymary	Prostrate pigweed	Wild carrot
Bull thistle	Heath aster	Prostrate spurge	Wild four-o'clock
Bullnettle	Hedge bindweed	Prostrate vervain	Wild garlic
Burclover	Hedge mustard	Puncturevine	Wild geranium
Burdock	Henbit	Purslane, common	Wild lettuce
Burning nettle	Hoary cress	Ragweed	Wild marigold
Burweed	Hoary plantain	Red sorrel	Wild mustard
Buttercup	Hoary vervain	Redroot pigweed	Wild onion
Buttonweed	Horsenettle	Redstem filaree	Wild parsnip
Canada thistle	Jimsonweed	Rough cinquefoil	Wild radish
Carolina geranium	Knawel	Rough fleabane	Wild rape
Carpetweed	Knotweed	Russian pigweed	Wild sweet potato
Catchweed bedstraw	Kochia	Scarlet pimpernel	Wild vetch
Catnip	Lambsquarters	Scotch thistle	Woodsorrel
Catsear	Lespedeza	Sheep sorrel	Woolly croton
Chickweed, common	Mallow	Sheperdspurse	Woolly morningglory
Chickweed, mouseear	Matchweed	Slender plantain	Woolly plantain
Chicory	Mexicanweed	Smallflower galinsoga	Wormseed
Cinquefoil	Milk vetch	Smooth dock	Yarrow
Clover, crimson	Morningglory	Smooth pigweed	Yellow rocket
Clover, hop	Mouseear hawkweed	Sorrel	Yellowflower pepperweed
Clover, red	Mugwort	Sowthistle	and other
Clover, strawberry		Spanishneedles	broadleaf weeds
Clover, sweet		Speedwell	
Clover, white		Spiny amaranth	

HOW TO APPLY EH-1400 HERBICIDE

This product may be applied as a single application or as split applications in the spring, early summer, or fall. This product should be applied before the germination of annual grasses.

WHEN TO APPLY EH-1400 HERBICIDE

Spring Applications

Established Lawns: This product is a preemergent herbicide to control crabgrass (smooth and large) plus other susceptible annual grasses and postemergent control for broadleaf weeds.

Application of this product must occur before the germination and emergence of the crabgrass and other annual grasses from the soil. For the best results in the spring, apply this product one to two (1-2) weeks before the expected emergence of crabgrass. Do not expect adequate control of crabgrass with single applications made later than four (4) weeks after germination.

When the period of germination for crabgrass and other weeds listed on this label extends into early summer, then a second application can be made at 6-10 weeks after the initial application.

The duration of residual weed control from this product will be directly related to the total amount of product applied and the performance will vary by local conditions.

Newly Seeded Areas: When establishing a new lawn of Kentucky bluegrass, perennial ryegrass and/or tall fescue, and other turfgrass species, wait until the grass is well established (3 mowings) before applying this product.

Use Program 1 for preemergent control at sites where turfgrass is cut relatively high (e.g., residential lawns). This program provides three to five (3-5) months of preemergent crabgrass control. This program may also provide early post emergent control of crabgrass. However, post emergent crabgrass control will be obtained only when this product is applied before the first tiller stage of crabgrass.

Use Program 2 for preemergent control at sites where (a) turfgrass is cut relatively low (e.g., golf fairways), and (b) turfgrass maintenance or weed control has been conducted during the previous year. This program provides four to six (4-6) months of preemergent crabgrass control. This program may also provide early post emergent control of crabgrass. However, post emergent crabgrass control will be obtained only when this product is applied before the first tiller stage of crabgrass.

Use rate restrictions:

- **New York State:** In New York State, dithiopyr is a restricted use product listed according to the Environmental Conservation Law, Section 326.2. This provision limits this product for use by commercial pesticide applicators only at no more than 6 lbs. of product per 1,000 sq. ft. per year (0.5 pound of dithiopyr per acre per year), and is prohibited from use in Nassau and Suffolk Counties. Use only according to label instructions.
- The maximum application rate to turf is 1.3 pounds of 2,4-D acid equivalent per acre per application per site. The maximum number of broadcast applications per treatment site is 2 per year.

Table 1. Use rates for preemergent control of annual grasses and postemergent control of broadleaf weeds.

REGION	PROGRAM 1 (Lbs. Per 1,000 sq.ft.)	PROGRAM 2 (Lbs. Per 1,000 sq.ft.)
New York State only	3.0 Lbs.	4.5Lbs.
North	3.0 Lbs	4.5 lbs
Transition	4.5 Lbs	3.0 lbs + 3.0 lbs split application
South	3.0 lbs + 3.0 lbs split application	4.0 lbs + 4.0 lbs split application
Coastal South	3.5 lbs + 3.5 lbs split application	4.0 lbs + 4.0 lbs split application
West	3.0 lbs to 4.5 lbs	3.5 lbs + 3.5 lbs split application

North:	All states not included below.
Transition:	DE, KS, KY, MD, MO, NJ, VA southeastern PA, southern areas of IL, IN, OH, & coastal areas of CT, NY, & RI.
South:	AL, AR, GA, LA, MS, NC, NM, OK, SC, TN & TX.
Coastal South:	HI, FL & southern coastal areas of AL, GA, LA, MS, NC, SC & TX.
West:	AZ, CA & NV. In this climatically diverse region, use the higher rates in local areas with longer crabgrass seasons.

Fall Applications

This product can also be applied in the late summer or early fall (late August through November) at the higher use rates listed in Program 2 of Table 1 to provide control of crabgrass through the early part of the next spring.

The fall application may be followed by an appropriate spring application.

Use of split (half-rate) applications spaced 6-8 weeks apart may provide improved weed control. Use the higher use rates when the expected weed infestations are dense when applications are made early, and/or longer residual control is desired (See Program 2 of Table 1).

RAINFALL/ IRRIGATION:

Do not irrigate the lawn for one day (24 hours) after application. Rainfall or irrigation (greater than ½ inch) at 2-7 days after application may optimize the weed control.

APPLICATION EQUIPMENT

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Avoid streaking, skips, or overlaps during application. Calibrate application equipment prior to usage, and apply this product uniformly over the turfgrass area.

Choose one of these application or distribution patterns:

1. **Single Pass** - Operate the equipment at intervals corresponding to the width or swath of the spreader. For drop spreaders, overlap the wheel tracks to ensure complete coverage. Close the spreader openings when turning to change directions or when stopping.
2. **Double Pass** - Reduce the application rate by one-half of the recommended rate, calibrate the spreader, and adjust the settings for the desired application rate. Operate the spreader over the lawn two (2) times. Close the spreader openings when turning to change directions or when stopping.
3. **Cross Hatching** - Reduce the application rate by one-half of the recommended rate, calibrate the spreader, and adjust the settings for the desired application rate. Operate the spreader over the lawn two (2) times. For the second trip, operate the spreader perpendicular to the wheel tracks or the spreader pattern of the first trip. Close the spreader opening when turning to change directions or when stopping.

CALIBRATION INSTRUCTIONS:

- For 3.0 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 330 square feet and adjust to apply at the rate of 1 pound of product per 330 square feet.
- For 3.5 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 285 square feet and adjust to apply at the rate of 1 pound of product per 285 square feet.
- For 4.0 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 250 square feet and adjust to apply at the rate of 1 pound of product per 250 square feet.
- For 4.5 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 225 square feet and adjust to apply at the rate of 1 pound of product per 225 square feet.

SPREADER SETTINGS

Note: Spreader settings will be presented on the final printed labels.

The above spreader settings are approximate. The age and condition of spreader, speed of operation and evenness of terrain may require slightly different settings for desired coverage.

If your spreader model does not appear above, please call toll-free 800-233-0628, 8 A.M. – 5 P.M. EDT, Monday—Friday for additional model settings.

WARRANTY

The Manufacturer warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions not reasonably foreseeable to Manufacturer, and Buyer assumes the risk of any such use.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on this label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricane), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Seller. All such risks shall be assumed by Buyer.

LIMITATION OF REMEDIES

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Sellers election, one of the following:

1. Refund of purchase price paid by Buyer or User for product bought, or
2. Replacement of amount of product used.

Seller shall not be liable for losses or damages resulting from handling or use of this product unless Seller is promptly notified of such loss or damage in writing. In no case shall Seller be liable for consequential or incidental damages or losses.

APPENDIX

I. Advertising claims that may be presented on the container:

- ◆ **Kills Dandelion**
- ◆ **Controls Crabgrass and Fertilizes**
- ◆ **Fertilize Once for Whole Season**—Feeds and greens with slow release fertilizer for up to four months.
- ◆ XX pounds covers up to ____ sq. ft.

II. Additional Labeling Requirements for Fertilizers and State Registrations:

- ◆ If the fertilizer guarantee contains iron, this following statement must appear: *This product contains secondary nutrient iron. Iron may stain concrete and should not be applied on dry or water dampened concrete and should be removed from these areas promptly after application by sweeping or blowing. Do not wash off with water.*
- ◆ If the recommended use rate applies less than 1 pound nitrogen per 1,000 sq. ft. per application, the following statement must appear: *Supplemental applications of lawn fertilizer are needed to achieve a minimum of 1 pound nitrogen per 1,000 sq. ft.*
- ◆ For products distributed in the State of Washington, the following statement must appear: *Information regarding the contents and levels of metals in this product is available on the Internet at XXX.xxx.*

SUBLABEL 2: Directions For Use intended outdoor residential use only.

DIRECTIONS FOR USE

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

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

Re-entry Restrictions: Do not allow people (other than applicator) on treatment area during application. Do not reenter or permit others to reenter the treated area until dusts have settled.

STORAGE AND DISPOSAL

STORAGE: Keep in original container in a cool, dry area, away from extreme heat and direct sunlight. Do not store near food feed, seeds or other pesticides.

DISPOSAL: **If empty:** Do not reuse this container. Place in trash or offer for recycling if available.
If partly filled: Call your local solid waste agency or 1-800 CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

In case of emergency endangering the environment involving this product, call Chemtrec day or night at (800) 424-9300.

PRODUCT DESCRIPTION

EH-1400 Herbicide is a combination herbicide and fertilizer formulated to provide control of most annual grasses and certain broadleaf weeds commonly found in home lawns. EH-1400 Herbicide contains three components: a preemergent herbicide, a lawn fertilizer, and a broadleaf weed killer.

- The preemergent herbicide can be applied to established turfgrass to control crabgrass, goosegrass, foxtails, and other undesirable annual grasses.
- The mixed fertilizer contains slow release nutrients that may extend the availability for turfgrass uptake.
- The broadleaf herbicide will control over 200 lawn weeds including dandelion, chickweed, thistle and clover. A partial list of broadleaf weeds is presented on this label.

WHERE TO USE

EH-1400 Herbicide may be used on the following established turf species:

Established Cool Season Turfgrass:

- Kentucky bluegrass
- creeping bentgrass
- perennial ryegrass
- fine fescues (hard fescue, chewing fescue and red fescue)
- tall fescue

Established Warm Season Turfgrass:

- bahiagrass
 - bermudagrass
 - buffalograss
 - centipedegrass
 - zoysiagrass and
 - St. Augustinegrass (except 'Floratam')
- Do not use EH-1400 Herbicide on dichondra, carpetgrass or Colonial bentgrass.
Do not use this product on turfgrass where desirable clovers are present.

Use of this product may result in undesirable injury on certain cultivars of fine fescues and not all cultivars have been tested. The following cultivars of fine fescues have demonstrated sensitivity to this product: 'Atlanta', 'Banner', 'Beauty', 'Biljart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf' and 'Waldina'.

Guidelines to follow:

This product may be used on seeded, sodded or sprigged lawns that are well established. The grass should have developed a good root system and have received at least two mowings following its seeding, sodding, or sprigging before it can receive the first application of this product.

The use of EH-1400 Herbicide on lawns and ornamental turfgrasses that are not well established, or have been weakened by stress due to mechanical operations, chemical injury, disease, insects, pests, excessive temperatures, or lack of moisture may increase the chances for turfgrass injury. Allow turfgrass weakened by these stresses to recover before application of this product.

Do not use this product on flowers, vegetables, groundcovers, gardens or landscape plantings with shrubs and trees. Do not exceed specified dosage for any area.

Do not use clippings from treated areas for composting or for mulching vegetables or fruit trees.

Do not contaminate domestic or irrigation waters.

- WEEDS CONTROLLED -		
When applied as directed, this product will control and/or suppress* the following weeds:		
Annual Grass Weeds:		
Annual Bluegrass* (<i>Poa annua</i>)	Crabgrass	Goosegrass*
Annual Ryegrass	Crowfootgrass	Smutgrass (seedling)*
Barnyardgrass	Foxtail (green and yellow)	

*Suppression is denoted with asterisk.

A partial listing of established broadleaf weeds :			
Bedstraw	Curly dock	Narrowleaf plantain	Red sorrel
Beggarticks	Daisy, oxeye	Dandelion	Redroot pigweed
Black medic	Dichondra	Parsley-piert	Sheep sorrel
Broadleaf plantain	False dandelion	Pearlwort	Shepherdspurse
Buckhorn plantain	Ground ivy	Pennycress	Slender plantain
Burdock	Healall	Pepperweed	Smooth dock
Burdock	Henbit	Pigweed	Smooth pigweed
Carpetweed	Knotweed	Plantain	Spurge
Chickweed, common	Lambsquarters	Poison ivy	Thistle
Chickweed, mouseear	Lespedeza	Poison oak	Woodsorrel
Chicory	Mallow	Pokeweed	Yarrow
Clover, hop	Matchweed	Purslane, common	and other
Clover, strawberry	Morningglory	Ragweed	broadleaf weeds
Clover, white	Mustard		

WHEN TO APPLY

A. Established lawns:

This product may be applied as a single application or as split applications in the spring, early summer, or fall.

For crabgrass and other listed annual grasses: This product is a preemergent herbicide to control crabgrass (smooth, southern and large) and other susceptible annual grasses. Spring applications should coincide with the period of maximum weed germination.

Application of this product must occur before the emergence of crabgrass from the soil.

For the best results in the spring, apply this product one to two (1-2) weeks before the expected germination of crabgrass. When the period of germination for crabgrass and other weeds listed on this label extends into early summer, then a second application can be made at 6-10 weeks after the initial application.

This product may also provide early post emergent control of crabgrass. However, post emergent crabgrass control will be obtained only when this product is applied before the first tiller stage of crabgrass.

Broadleaf weeds present at the time of application will be controlled.

All summer grasses do not germinate at the same time. If the application schedule does not coincide with the normal germination period of the annual grasses listed on this label, then weed control results may be poor or erratic. Do not expect adequate control with applications made later than four (4) weeks after crabgrass germination.

This product is not effective against established annual grass weeds, sedges, and perennial grass weeds.

The use rates for a single application and split applications presented in Table 2 can be made at 6-10 weeks after the initial application. Use the higher use rates when the expected weed infestations are dense and/or when applications are made early and longer residual control is desired (See Table 2).

For broadleaf weed control:

Best results are obtained during the spring and fall when broadleaf weeds are present, young and actively growing under adequate soil moisture and favorable temperatures (50°-80°F). Applications during unusually cool weather or hot and dry conditions can reduce weed control. Also, applications during hot weather (above 80°F) and dry conditions may cause turfgrass injury.

Avoid applications to St. Augustinegrass during the summer months (June—September) because turfgrass injury/discoloration may occur.

At the time of application, moisture on the weed leaves from dew, rainfall or irrigation/watering aids in control.

B. New lawns, Reseeding and Sprigging:

New lawns: To establish a new lawn of Kentucky bluegrass, perennial ryegrass, and/or fescues, this product may be applied two (2) weeks after the first sign of germination of the turfgrass. For other turfgrass, wait until the turfgrass has been mowed two to three (2-3) times before applying this product.

Reseeding: Do not apply this product prior to eight (8) weeks before seeding.

Sprigging: The sprigging of turfgrass into areas previously treated with this product should be delayed until eight (8) weeks from the time of application. Sprigging before eight (8) weeks may injure or prevent the establishment of newly sprigged turfgrass.

HOW MUCH TO USE

- Apply this product *uniformly* over the lawn. An uneven application can decrease weed control or cause turf injury. Use a drop or rotary spreader designed to apply granular fertilizers. Avoid using drop spreaders that deliver this product in narrow, concentrated bands. Avoid streaking patterns, skips or excessive overlaps because poor weed control or turfgrass injury may result.
- Apply this product when the wind is calm. Wind can affect the product's distribution and result in uneven weed control.
- Apply the *proper* amount. Over application may result in turf injury.

Table 2. Use rates for preemergent control of annual grasses and broadleaf weeds in cool season turfgrass and warm season turfgrass.

Partial listing of weeds, but not limited to:	Pounds of product/ 1,000 sq.ft.	Maximum number of applications per year	Interval after the first application	Comments
I. Single Application				
Crabgrass, foxtail, goosegrass, barnyardgrass, crowfootgrass, spurge, purslane, clover	3.0 -4.5 pounds of product/ 1,000 sq.ft.	2	---	Apply <i>in the spring</i> before weed seed germination
Chickweed, henbit, speedwell, bittercress, shepherdspurse and other winter annuals	3.0 -4.5 pounds of product/ 1,000 sq.ft.	2	---	Apply <i>in late summer or early fall</i> before weed seed germination
II. Split Applications				
Crabgrass, foxtail, goosegrass, crowfootgrass, barnyardgrass, spurge, purslane, clover	3.0 -3.5 plus 3.0-3.5 pounds of product/ 1,000 sq.ft.	2	6-10 weeks	Apply <i>in the spring</i> before weed seed germination
Chickweed, henbit, speedwell, bittercress, shepherdspurse and other winter annuals	3.0 -3.5 plus 3.0-3.5 pounds of product/ 1,000 sq.ft.	2	6-10 weeks	Apply <i>in late summer or early fall</i> before weed seed germination

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

Table 3. Use rates for preemergent control of annual grasses and broadleaf weeds in New York State.

Partial listing of weeds, but not limited to:	Pounds of product/ 1,000 sq.ft.	Maximum number of applications per year	Interval after the first application	Comments
I. Single Applications only in Nassau and Suffolk Counties.				
Crabgrass, foxtail, goosegrass, barnyardgrass, crowfootgrass, spurge, purslane, clover	3.0 pounds of product/ 1,000 sq.ft.	2	----	Apply <i>in the spring</i> before weed seed germination
Chickweed, henbit, speedwell, bittercress, shepherdspurge and other winter annuals	3.0 pounds of product/ 1,000 sq.ft.	2	----	Apply <i>in late summer or early fall</i> before weed seed germination
II. Single Applications except in Nassau and Suffolk Counties.				
Crabgrass, foxtail, goosegrass, barnyardgrass, crowfootgrass, spurge, purslane, clover	3.0-4.5 pounds of product/ 1,000 sq.ft.	2	----	Apply <i>in the spring</i> before weed seed germination
Chickweed, henbit, speedwell, bittercress, shepherdspurge and other winter annuals	3.0-4.5 pounds of product/ 1,000 sq.ft.	2	----	Apply <i>in late summer or early fall</i> before weed seed germination
III. Split Applications except Nassau and Suffolk Counties.				
Crabgrass, foxtail, goosegrass, crowfootgrass, barnyardgrass, spurge, purslane, clover	3.0 plus 3.0 pounds of product/ 1,000 sq.ft.	2	6-10 weeks	Apply <i>in the spring</i> before weed seed germination
Chickweed, henbit, speedwell, bittercress, shepherdspurge and other winter annuals	3.0 plus 3.0 pounds of product/ 1,000 sq.ft.	2	6-10 weeks	Apply <i>in late summer or early fall</i> before weed seed germination

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

New York State: Do not exceed 0.5 pounds active ingredient dithiopyr per year. Do not exceed 0.25 pound active ingredient per year in Nassau and Suffolk Counties.

CALIBRATION INSTRUCTIONS and SUGGESTED SPREADER SETTINGS

- Follow the instructions of equipment (spreader) manufacturer for adjusting the spreader settings.
- For 3.0 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 330 square feet and adjust to apply at the rate of 1 pound of product per 330 square feet.

This 15 (other retail sizes) pound bag treats up to 5,000 sq.ft. of turfgrass.

- For 3.5 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 285 square feet and adjust to apply at the rate of 1 pound of product per 285 square feet.

This 18 (other retail sizes) pound bag treats up to 6,000 sq.ft. of turfgrass.

- For 4.0 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 250 square feet and adjust to apply at the rate of 1 pound of product per 250 square feet.

This 12 (other retail sizes) pound bag treats up to 5,000 sq.ft. of turfgrass.

- For 4.5 pounds of product per 1,000 square feet of turfgrass: Check your spreader on 225 square feet and adjust to apply at the rate of 1 pound of product per 225 square feet.

This 11 pound bag treats up to 5,000 sq.ft. of turfgrass.

Approximate settings to apply this product at a rate of xxx lbs. per 1,000 sq. ft.

Brand name of drop spreaders	Setting	Brand name of rotary spreaders	Setting
Xxx	Xxx	Xxx	Xxx

The above spreader settings are approximate. However, age and condition of spreader, speed of operation and evenness of terrain may require slightly different settings for desired coverage.

Note: Spreader settings will be presented on final printed labels.

RAINFALL/ IRRIGATION:

Do not irrigate the lawn for one day (24 hours) after application. Rainfall or irrigation (greater than ½ inch) at 2-7 days after application may optimize the weed control.

APPENDIX

I. Advertising claims that may be presented on the container:

- ◆ **Kills Dandelion**
- ◆ Feeds and greens with slow release fertilizer for up to three months.

II. Additional Labeling Requirements for Fertilizers and State Registrations:

- ◆ For paper box board containers, the following statement may appear:
 - **This container is constructed from 85% recycled box board.**
- ◆ If the fertilizer guarantee contains iron, this following statement must appear:
 - *This product contains secondary nutrient iron. Iron may stain concrete and should not be applied on dry or water dampened concrete and should be removed from these areas promptly after application by sweeping or blowing. Do not wash off with water.*
- ◆ If the recommended use rate applies less than 1 pound nitrogen per 1,000 sq. ft. per application, the following statement must appear:
 - *Supplemental applications of lawn fertilizer are needed to achieve a minimum of 1 pound nitrogen per 1,000 sq. ft.*
- ◆ For products distributed in the State of Washington, the following statement must appear:
 - *Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.regulatory-info-lebsea.com>.*