

2217-889

12/2/2008

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

2 DEC 2008

James L. Kunstman
PBI/Gordon Corp.
1217 West 12th Street
P.O. Box 014090
Kansas City, MO 64101

Dear Dr. Kunstman:

Subject: Label Amendment for RED: 2,4-D, Dicamba and MCPP-p
EH-1412 Professional
EPA Registration Number 2217-889

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. The PPE text appearing in the Hazards to Humans and Domestic Animals section (“Wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves, and protective eyewear”) is incomplete or duplicated elsewhere on the label and must be deleted.
2. Per the acute toxicity review, the text “protective eyewear” appearing in the handler PPE section should be revised to read “goggles or faceshield.”
3. The mechanical transfer engineering control text is no longer needed and may be deleted from the label.
4. The first sentence of the Environmental Hazards section must be revised to read “This pesticide *is* toxic to fish and aquatic invertebrates and may adversely affect non-target plants.”
5. Per the MCPP-p RED, the minimum retreatment interval for sod farms must be revised from 21 days to 30 days on Page 8 of the label.
6. Per the MCPP-p RED, the following restrictions must be added to the label below Table 2:

“Limited to 2 applications per year.
Minimum of 30 days between applications.”

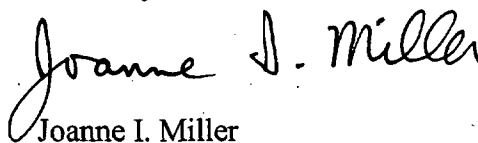
- 7. Per the combined label table, the following text must be added to the label:

“Do not apply directly to or near water, storm drains, gutters, sewers, or drainage ditches. Do not apply within 25 feet of rivers, fish ponds, lakes, streams, reservoirs, marshes, estuaries, bays, and oceans. Do not apply when windy. To prevent product run-off, do not over water the treated areas to the point of runoff or apply when raining or when rain is expected that day. Rinse applicator over lawn or garden area only.”

“Do not apply as a fine mist because of potential for injury to desirable plants.”
- 8. Per the combined label table, the text “Wait at least 30 days between applications” must be added to the label.
- 9. Change sentence under Limited Warranty and Disclaimer to read “In no case, to **the extent consistent with applicable law**, shall the manufacturer be liable for for incidental, consequential, or special damages resulting from the use or handling of this product.”
- 10. Please note: Final product reregistration cannot be considered until after all active ingredients in this product are eligible for reregistration.
- 11. Add the following statements to the labeling: Use of this product in certain portions of California, Oregon and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA, C01-0132C, (W.D. WA). For further information, please refer to EPA Web Site: <http://www.epa.gov/espp>.

One copy of the label stamped “Accepted with Comments” is enclosed for your records. Please submit one copy of the final printed label before the product is released for shipment. If you have any questions, please contact Tracy White by phone at (703) 308-0042 or via email at white.tracy@epa.gov.

Sincerely,



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

Enclosure

3/14

ACCEPTED
with COMMENTS
In EPA Letter Dated:
2 DEC 2008

EH-1412 PROFESSIONAL

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

EPA Reg. No. 2217-889

2217-889

ACTIVE INGREDIENT:

2,4-D, 2-ethylhexyl ester.....	69.02%
MCPP-p acid.....	10.41%
Dicamba acid.....	4.41%
INERT INGREDIENTS.....	16.16%
TOTAL.....	100.00%

THIS PRODUCT CONTAINS:

- 4.38 lb. 2,4-dichlorophenoxyacetic acid equivalent per gallon or 45.78%
 - 1.00 lb. (+)-(R)-2-(2-methyl-4-chlorophenoxy) propionic acid equivalent per gallon or 10.41%
 - 0.42 lb. 3,6-dichloro-o-anisic acid equivalent per gallon or 4.41%
- Isomer Specific by AOAC Methods.

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find some one to explain it to you in detail.)

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed. Wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves, and protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

- Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber, neoprene rubber, or viton. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- protective eyewear,
- long-sleeved shirt and long pants,
- shoes and socks, plus
- chemical-resistant gloves (except for applicators using ground boom equipment) and
- chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.



User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

Engineering Control Statements for WPS Uses

Containers over 1 gallon and less than 5 gallons in capacity: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

Containers of 5 gallons or more in capacity: Do not open-pour from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a nonrefillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations	
	<ul style="list-style-type: none"> • Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water. • Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.	

Environmental Hazards

This pesticide may be toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls worn over short-sleeved shirt and short pants,
- chemical-resistant footwear plus socks,
- chemical-resistant gloves made of any water-proof material,
- chemical-resistant headgear for overhead exposure,
- protective eyewear.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

PRODUCT DESCRIPTION:

EH-1412 Professional contains three active ingredients that broaden the spectrum of weed control. These combined herbicides provide limited or no residual activity at recommended use rates.

EH-1412 Herbicide offers these advantages:

- Excellent postemergent activity with proven performance for broadleaf weed control in turfgrass.
- High selectivity (turfgrass safety) in established cool-season turfgrass and warm-season turfgrass.
- This product provides rapid and effective weed control for common and troublesome (tough) weed species in turfgrass, including: dandelion, spurge, white clover and dollarweed (pennywort).
- This product is generally rainfast in as little as 3 hours.

SPRAY PREPARATION AND TANK MIXTURES:

Water as diluent:

Add one-half the required amount of water to the spray tank, then add EH-1412 Professional slowly with agitation, and complete filling the tank with water. Mix thoroughly and continue agitation while spraying.

When this product is left standing for extended periods of time, re-agitate to assure uniformity of the spray mixture.

Do not use tank additives that alter the pH of the spray solution below pH 5 or above pH 8. Buffer the spray solution to alter the pH range as appropriate.

Liquid fertilizers as diluents:

In certain applications, liquid fertilizer may replace part of the water as a diluent. Liquid fertilizers used as diluents can cause yellowing and /or burning of the turfgrass (phytotoxicity).

PREMIX: Always premix EH-1412 Professional with water before adding to fluid fertilizers. For liquid nitrogen solutions such as U.A.N. or urea solutions, use a premix of 1 part of this product with 4 parts of water or use a premix with a 1:4 ratio of product to water

Use suitable sources and rates of fertilizer based upon local recommendations. Refer to the mixing directions on the labels of the liquid fertilizers.

JAR TEST: Always perform a jar test for compatibility before large scale mixing. The jar test can be conducted by mixing all components in a small container in proportionate quantities. If the mixture separates after standing and can be mixed readily by shaking, then the mixture can be used and applied with spray equipment providing continuous agitation. If large flakes, sludge, gels or other precipitates form, or if a separate oily layer or oil globules appear, then the herbicide and the liquid fertilizer should not be prepared as a tank mixture.

Adjuvants and spray additives:

Adjuvants (such as surfactants, spreaders, spreader-stickers, spray thickeners, foaming agents, activators, detergents, and drift reducing agents) combined with this product can damage the leaf tissue of turfgrass. If any discoloration or cosmetic effects are objectionable or would be unacceptable, then adjuvant(s) combined with EH-1412 Professional would not be recommended. Do not use adjuvants and spray additive tank-mix combinations, unless your experience indicates that the tank mixture will not result in turf injury.

TANK MIXTURES

This product may be applied as a tank mixture if the companion product is EPA-registered for the same application schedule (timing) and the same application method. Read and follow the labeling of each companion product used for Precautionary Statements, Directions for Use and state restrictions. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. No label dosage should be exceeded. This product cannot be tank-mixed with any product containing a prohibition for tank mixtures.

JAR TEST: Always perform a jar test for compatibility of the products used in tank mixtures before large scale mixing.

GROUND EQUIPMENT:

Spray distribution: The accuracy and uniformity of the herbicide distribution is the sole responsibility of the applicator. Power sprayers fitted with a boom or spray wand/gun may be used for broadcast applications and spot treatments. Boom sprayers equipped with appropriate flat fan nozzles, tips, and screens are suitable for broadcast applications.

For best spray distribution and coverage, select a spray volume and delivery system that will ensure accurate and uniform coverage. Avoid overlaps of spray patterns that result in higher application rates and that may cause turf injury.

Spray volumes of 20 to 220 gallons per acre with spray pressures adjusted to between 20 to 40 psi. Use higher spray volumes for dense weed populations (up to 220 gallons per acre or 5 gallons per 1,000 square feet).

- Calibration and proper application are essential when using this product.
- Over-application or rates above those specified on this label can cause turf injury.
- Hand-held technique: Wands fitted with flat fan nozzle tips may be used with the appropriate technique. Flat fan nozzles should not be waved in a back-and-forth motion, or in a side-to-side motion, or in a swinging arm motion. Instead, the nozzle should be held stationary at the proper height. Side-to-side motion results in uneven coverage.

Hand-operated sprayers including backpack sprayers, compression sprayers, and knapsack sprayers are appropriate for small turfgrass areas when power equipment is unavailable, uneconomical, or impractical.

This product may cause injury to susceptible/non-target plants at the use site by contacting the foliage, stems, or roots. To prevent injury to susceptible crops and other desirable broadleaf plants including but not limited to cotton, legumes, tobacco, tomatoes, grapes, garden/vegetable crops, and ornamentals (flowers, trees, and shrubs) avoid contact with the spray solution, spray droplets, and spray mist (fine droplets). Do not apply when conditions are conducive to spray drift from the use site to untreated areas, desirable broadleaf plants or susceptible crops (food, feed or forage).

Before and after using this product, clean sprayer with soap or detergent and water, or an approved spray tank cleaner and rinse thoroughly before applying other pesticides.

Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of ground application can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

Use only Medium or coarser spray nozzles according to ASAE (S 572) definition of standard nozzles or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 10 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

Equipment

All ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

WHERE TO USE:

This product provides selective broadleaf control in warm-season and cool-season turfgrass in five (5) use 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, golf courses (fairways, aprons, and roughs), and office buildings.
- **Ornamental sites** include turfgrass established around residences, parks, streets, retail outlets, cemeteries, industrial and institutional buildings, recreation areas, fairgrounds, and areas adjacent to athletic fields.
- **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.
- **Agricultural site:** Commercial sod production
- **Non-cropland Sites:** Highway rights-of-way (principal, interstate, county, private, and unpaved roads): Roadsides, road shoulders, road embankments, dividers, and medians. Municipal, state, and federal lands. Airports and military installations.

Prohibitions of Sites:

- Do not apply to any body of water such as lakes, streams, rivers, ponds, reservoirs, or estuaries (salt water bays). Do not apply to any shorelines (non-cropland sites adjacent to the edges of a body of water) for lakes, streams, rivers, ponds, reservoirs, or estuaries (salt water bays).
- Do not apply to wetlands (swamps, bogs, potholes, or marshes).
- Do not apply to agricultural irrigation water or on agricultural irrigation ditchbanks and canals.
- Do not apply to agricultural drainage water or on agricultural ditchbanks.

Turfgrass tolerance:

- The turfgrass tolerance to this product may vary and temporary turfgrass yellowing may occur on certain varieties of hybrid bermudagrass. Adverse environmental conditions may reduce the selectivity on the turfgrass. Do not apply this product to stressed turf.
- Certain spray tank additives (adjuvants, wetting agents, surfactants), liquid fertilizers, and tank mixtures containing emulsifiable concentrates may reduce the selectivity on the turfgrass. Do not use adjuvants and spray additive tank-mix combinations, unless your experience indicates that the tank mixture will not result in turf injury.

Prohibitions:

- Do not apply this product to creeping bentgrass, greens or tees, St. Augustinegrass, carpetgrass, centipedegrass, dichondra, legumes, and lawns where desirable clovers are present.
- Do not broadcast apply this product when temperatures are above 85°F. Some injury may be expected with spot treatments when air temperatures exceed 85°F.
- To avoid turf injury, use only on turfgrass that is reasonably free of stress from diseases, insects, excess heat or cold, drought or excess rainfall/irrigation, shaded areas, low soil pH, nematodes, improper mowing or improper applications of fertilizer and pesticides. Injury can occur if this product is applied under any of these or other stress conditions. Under any of these stress conditions, any turf damage caused by the use of this product is beyond the control of PBI/Gordon Corporation and all risk is assumed by the buyer and/or user.

Do not use this product on or near desirable plants, including within the drip line of the roots of desirable trees and shrubs, since injury may result.

APPLICATION SCHEDULES:

Apply this product to broadleaf weeds that are young and actively growing for the best results. Spring and fall treatments under adequate soil moisture conditions are preferred to the summer treatments. Generally, summer broadcast applications to older, drought stressed weeds are less effective. Fall applications provide improved control for emerged winter annuals and perennials such as henbit, chickweed, clover and ground ivy.

Sequential broadcast applications or follow-up applications as spot treatments at 30 day intervals are recommended for more mature weeds, for dense infestations, and for adverse environmental conditions.

Spot treatments during the summer may be appropriate for sparse infestations, or as a follow-up treatment, or any time broadleaf weeds are actively growing.

Extremes in environmental conditions e.g. temperature and moisture, soil conditions, and cultural practices may affect the activity of this product. Under warm moist conditions, herbicide symptoms may be accelerated. While under very dry conditions, the expression of herbicide symptoms is delayed, and weeds hardened off by drought are less susceptible to this product.

For newly seeded areas:

Delay application of this product to grass seedlings until after the second mowing.

For newly sodded, sprigged, or plugged areas:

The application of this product to newly sodded, sprigged, or plugged grasses should be delayed until 3 to 4 weeks after the sodding, sprigging, or plugging operations.

Reseeding interval:

Treated areas may be reseeded 3 weeks after application.

HOW MUCH TO USE:

USE RATES AND SPRAY VOLUMES:

Generally, the lower application rates within the specified range will provide satisfactory control of sensitive weed species. The higher application rates within the specified range will be required for dense infestations of perennial weeds, for adverse/extreme environmental conditions, or for weeds hardened off or more mature.

TABLE 1. USE RATES FOR ORNAMENTAL LAWNS, SOD FARMS AND TURFGRASS.

	Rate	Recommended Spray Volume
Cool-season Turf		
Kentucky bluegrass, annual bluegrass, annual ryegrass perennial ryegrass, tall fescue, red or fine leaf fescues. Mixtures of cool-season species in non-cropland areas established for roadside vegetation management or for low maintenance. (Kentucky bluegrass, tall fescue, smooth bromegrass & orchardgrass)	1.5 to 1.75 Pints/Acre (0.55 to 0.65 fl. oz./1,000 sq. ft.)	20 to 220 Gallons/Acre (0.5 to 5.0 Gallons/1,000 sq. ft.)
Warm-season Turf		
Hybrid bermudagrass, common bermudagrass, zoysiagrass, bahiagrass and buffalograss	1.25 to 1.5 Pints/Acre (0.45 to 0.55 fl. oz./1,000 sq. ft.)	20 to 220 Gallons/Acre (0.5 to 5.0 Gallons/1,000 sq. ft.)
Do not apply this product to warm-season turfgrass during spring green-up or in the fall during the transition period between active growth and dormancy. Dormant turf: This product may be applied to fully dormant bermudagrass, fully dormant zoysiagrass, and fully dormant bahiagrass.		

Limitations on broadcast applications to ornamental turfgrass and sod farms

Use Site	Maximum Rate per Application	Maximum Number of Applications per Year	Minimum Interval Between Applications	Minimum Spray Volume	Maximum seasonal rate
Ornamental turfgrass	1.5 pints/A (0.85 lb 2,4-D ae/A) (0.19 lb MCP-p ae/A) (0.08 lb dicamba ae/A)	2	30 Days	2 gal/A	3.0 pints/A (1.67 lb 2,4-D ae/A) (0.38 lb MCP-p ae/A) (0.16 lb dicamba ae/A)
Sod farms	1.5 pints/A (0.85 lb 2,4-D ae/A) (0.19 lb MCP-p ae/A) (0.08 lb dicamba ae/A)	2	21 Days	2 gal/A	3.0 pints/A (1.67 lb 2,4-D ae/A) (0.38 lb MCP-p ae/A) (0.16 lb dicamba ae/A)

ae = Acid Equivalent. Do not exceed the maximum seasonal rate of 3.0 pints (1.67 lb 2,4-D ae), 0.38 lb. MCP-p ae and 0.16 lb dicamba ae) per acre per season, excluding spot treatments.

SPOT TREATMENT:

WITH HAND OPERATED SPRAYERS (INCLUDING BACKPACK SPRAYERS, COMPRESSION SPRAYERS, AND KNAPSACK SPRAYERS):

- Apply any time the emerged broadleaf weeds are actively growing.
- Calibration and proper application are essential when using this product.
- Uniform applications are essential when using this product. Over application or rates above those specified on this label including excessive overlaps of this product can cause turf injury.
- Hand-held techniques: Wands fitted with flat fan nozzle tips may be used with the appropriate technique. Flat fan nozzles should not be waved in a back-and-forth motion, or in a side-to-side motion, or in a swinging arm motion. Instead, the nozzle should be held stationary at the proper height. Side-to-side motions result in uneven coverage.
- Follow-up applications as spot treatments at a 2 to 6 week interval are recommended for more mature weeds, for dense infestations, and for adverse environmental conditions.
- **For cool-season turfgrass:** Mix 0.55 to 0.65 fl. oz. of this product per one (1.0) gallon of water for treatment of approximately 1,000 sq.ft of turfgrass. Or, mix 3 1/3 to 4 teaspoons of this product per

one (1.0) gallon of water for treatment of approximately 1,000 sq.ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible.

- **For warm-season turfgrass:** Mix 0.45 to 0.55 fl. oz. of this product per one (1.0) gallon of water for treatment of approximately 1,000 sq.ft of turfgrass. Or, mix 3 to 3 1/3 teaspoons of this product per one (1.0) gallon of water for treatment of approximately 1,000 sq.ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible.

Spot treatment is defined as a treatment area no greater than 1,000 sq.ft. per acre. The maximum application rate is 0.55 fl.oz. of product per 1,000 sq.ft. per application (0.19 lbs MCP-p acid equivalent per acre). The maximum number of spot treatments is limited to 2 per year with a minimum of 30 days between applications.

CULTURAL TIPS:

Irrigation:

- Do not apply this product through any type of irrigation system.
- Rainfast in as little as 3 hours. Do not apply this product immediately before rainfall or irrigation.
- If possible, do not irrigate or water the turfgrass within 3 to 6 hours after application.
- If dry conditions exist, a scheduled irrigation or watering 24 hours before and 24 hours after application is recommended.

Mowing:

- Delay mowing 2 days before and until 2 days after the application of this product.

BROADLEAF WEEDS CONTROLLED:

EH-1412 Professional will control or suppress the following broadleaf weeds and broadleaf weeds that are susceptible to 2,4-D. Apply any time the emerged broadleaf weeds are susceptible.

BROADLEAF WEEDS			
Aster, white heath & white prairie	Dollarweed (*pennywort)	Lawn burweed	Ragweed
Bedstraw	False dandelion (*spotted catsear & common catsear)	Lespedeza, common	Redweed
Beggarweed, creeping	Field bindweed	Mallow, common	Red sorrel (*sheep sorrel)
Black medic	(*morningglory & creeping jenny)	Matchweed	Shepherdspurse
Broadleaf plantain	Field oxeye-daisy	Mouseear chickweed	Spurge
Buckhorn plantain	(*creeping oxeye)	Old world diamond flower	Thistle
Bull thistle	Filaree, whitestem & redstem	Oxalis (*yellow woodsorrel & creeping woodsorrel)	Virginia buttonweed
Burdock, common	Florida betony	Parsley-piert	White clover (*Dutch clover, honeysuckle clover, white trefoil, & purplewort)
Buttercup, creeping	Florida pusley	Pennsylvania smartweed	Wild carrot
Carpetweed	Ground ivy	Pepperweed	Wild garlic
Chickweed, common	Groundsel	Pigweed	Wild geranium
Chicory	Hawkweed	Pineappleweed	Wild lettuce
Cinquefoil	Healall	Plantain	Wild mustard
Clover	Henbit	Poison ivy	Wild onion
Curly dock	Innocence (Blue-eyed Mary)	Poison oak	Wild strawberry
Dandelion	Knotweed	Prickly lettuce (*compass plant)	Yarrow
Dayflower	Lambsquarters	Puncturevine	Yellow rocket
Deadnettle		Purple cudweed	and many more broadleaf weeds
Dock		Purslane	
Dogfennel			
*Synonyms			

Tough weed control in industrial or low maintenance areas:

Mixed stands of Kentucky bluegrass, tall fescue, smooth brome grass, orchardgrass and reed canarygrass may be treated.

Treatments of EH-1412 Professional may injure or kill legumes including clovers (sweet, yellow, red, crimson, alsike, hop, white), lespedezas, trefoils and vetches.

Table 2. Rates of product per acre for specific hard-to-control weeds with ground equipment.

Weed Types	Troublesome weeds such as:	Amount of product, pints/acre ¹	When to Apply
Annual Broadleaf	ivyleaf morningglory, redroot pigweed, cocklebur, sunflower, velvetleaf (butterprint)	1.5 to 1.75 pints/acre	Spring or fall during active growth.
Biennial	Bull thistle, musk thistle, common burdock	1.75 to 2.0 pints/acre	Spring or fall during seedling to rosette stage.
Perennial	Burclover, Canada thistle, field bindweeds, English daisy, hoary cress (whiteweed), Veronica (corn speedwell), wild violet.	1.75 to 2.0 pints/acre	Spring or fall during bud to bloom stage.

Footnote 1: Use the lower rate within the range specified for highly favorable plant growing conditions and when broadleaf weeds are less than 6 inches in height. Use the higher rate within the range specified for tall vegetation, dense canopies, weeds beyond the suggested growth stage, or during adverse conditions.

Biennial and perennial weeds may require follow-up or sequential treatments.

Limitations on broadcast applications

Use Site	Maximum Rate per Application	Maximum Number of Applications per Year	Minimum Interval Between Applications	Minimum Spray Volume	Maximum seasonal rate
Ornamental turfgrass	1.75 pints/A (0.98 lb 2,4-D ae/A) (0.22 lb MCP-p ae/A) (0.09 lb dicamba ae/A)	2	30 Days	2 gal/A	3.5 pints/A (1.95 lb 2,4-D ae/A) (0.44 lb MCP-p ae/A) (0.19 lb dicamba ae/A)

ae = Acid Equivalent. Do not exceed the maximum seasonal rate of 3.5 pints (1.95 lb 2,4-D ae), 0.22 lb. MCP-p ae and 0.09 lb dicamba ae) per acre per season, excluding spot treatments.

Spray volumes with ground equipment:

- For EH-1412 Professional alone, use a minimum spray volume of 10.0 gallons per acre (gpa).
- For tank mixtures of EH-1412 Professional, use a minimum spray volume of 20.0 gallons per acre or use the most restrictive of the labeling limitations of all products used in the tank mixture.

ADJUVANTS:

The addition of adjuvants (surfactants, spreaders, spreader-stickers, spray thickeners, foaming agents activators, detergents, and drift reducing agents,) is not necessary when using this product. If the foliar phytotoxicity (leaf burn and necrosis) occurs too quickly, then the translocation of EH-1412 Professional will not occur and the level of performance (control) may be reduced in perennial broadleaf weeds. Do not use adjuvants and spray additive tank-mix combinations, unless your experience indicates that the tank mixture will not result in turf injury.

STORAGE AND DISPOSAL

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

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

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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 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. 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.

LIMITED WARRANTY AND DISCLAIMER

IMPORTANT: Read this Limited Warranty and Disclaimer before buying or using this product. By opening and using this product, buyer and all users agree to accept the terms of this Limited Warranty and Disclaimer in their entirety and without exception. If the terms are not acceptable, return this product unopened immediately to the point of purchase, and the purchase price will be refunded in full.

It is impossible to eliminate all risks inherently associated with use of this product. Damage to the treated article, ineffectiveness, or other unintended consequences can result from use of the product under abnormal conditions such as weather, presence of other materials, or the manner of use or application, etc. Such factors and conditions are beyond the control of the manufacturer, and **BY PURCHASING AND USING THIS PRODUCT THE BUYER AND ALL USERS OF THIS PRODUCT AGREE TO ACCEPT ALL SUCH RISKS.** Buyer and all users further agree to assume all risks of loss or damage from the use of the product in any manner that is not explicitly set forth in or that is inconsistent with label instructions, warnings and cautions.

The manufacturer warrants only that this product conforms to the chemical description given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use, subject to the inherent risks described below.

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 HEREBY EXPRESSLY DISCLAIMED.

THE EXCLUSIVE REMEDY OF BUYER AND ALL USERS OF THIS PRODUCT, AND THE EXCLUSIVE LIABILITY OF THE MANUFACTURER, FOR ANY AND ALL LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. The Manufacturer must be promptly notified in writing of any claims, whether based in contract, tort, negligence, strict liability, or otherwise, to be eligible to receive either remedy stated above.

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

APPENDIX

1. Statements which may appear on different label components depending on packaging configuration.

- See next panel for additional Precautionary Statements and First Aid
- Net Contents: _____
- EPA Est. No. _____

DOCUMENT CONTROL INFORMATION

1. Unique Label Identifier: 002217-00889.20080305.doc

2. Previous Version: AP091605

3. Reason for Issue: Various changes pertaining to re-registration. Re-format label.