

2217-951

07-22-2011

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:
2217-951

Date of Issuance:
JUL 22 2011

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
EH1493 Herbicide

Name and Address of Registrant (include ZIP Code):
PBI Gordon Corporation
1217 West 12th Street
P.O. Box 014090
Kansas City, MO 64101-0090

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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Add the phrase "EPA Registration No. 2217-951" to your label before you release the product for shipment.

Signature of Approving Official:

Kathryn V. Montague
Product Manager (23)
Herbicide Branch
Registration Division (7505P)

Date:
JUL 22 2011

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3. Submit one (1) copy of your final printed labeling before you release the product for shipment.

4. Submit the results of one year storage stability and corrosion characteristic studies to EPA within one year of this date of registration. Submit a hard copy and an electronic copy also.

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 constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

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ACCEPTED
JUL 22 2011
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 2217-951

EH-1493 HERBICIDE

EPA Reg. No. 2217-YYY

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170.

ACTIVE INGREDIENT:

Triclopyr BEE, butoxyethyl ester	8.40%
2,4-D, 2-ethylhexyl ester	31.82%
Dicamba acid	2.43%
OTHER INGREDIENTS:	57.35%
TOTAL	100.00%

THIS PRODUCT CONTAINS:

- 0.50 lb 3,5, 6-trichloro-2-pyridinyloxyacetic acid per gallon or 6.04%.
 - 1.75 lb 2,4-dichlorophenoxyacetic acid equivalent per gallon or 21.18%.
 - 0.20 lb 3,6-dichloro-o-anisic acid equivalent per gallon or 2.43%.
- Isomer specific by AOAC Methods.
Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful if swallowed.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber, neoprene rubber, and 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:

- long-sleeved shirt and long pants,
- shoes and socks,
- 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.

Engineering Control Statements

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 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.

User Safety Recommendations	
•	Users should wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
•	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"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
If on skin or on 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 mouth-to-mouth if possible. • Call a poison control center or doctor for treatment advice.
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 information.	
NOTE TO PHYSICIAN: Contains petroleum distillates - vomiting may cause aspiration pneumonia.	

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. 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.

These chemicals (triclopyr, 2,4-D and dicamba) have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals in areas where soils are permeable,

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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 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 24 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,
- chemical-resistant gloves made of any water-proof material,
- shoes plus socks and
- 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.

Reentry Statement: Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

1. Product Description

EH-1493 is a post emergent herbicide that enters plants through their leaves, woody stems, and cut surfaces. Once in the plant the product moves throughout the plant's vascular system. Visual symptoms such as wilting and yellowing appear in 1 to 3 weeks depending on environmental conditions and plant species. It is effective in controlling broadleaf weeds, woody plants, vines, and brush in pasture and rangeland including established grass pastures, rangeland, and perennial grasslands, Conservation Reserve Program (CRP) acres, non-crop land areas including fencerows, hedgerows, roadside ditches, rights-of-way, farmsteads, and other non-crop areas, and residential lawns, yards, and turfgrass.

2. For Best Results

- Within the rate ranges specified on this label, the lower rates can be used for young, actively growing, sensitive weed species. The higher rates can be used for less sensitive species, perennials, and conditions where control is difficult (dense weed stands, larger weeds, stress conditions such as drought or extreme temperatures)
- Spring and fall treatments are preferred to summer treatments.
- Foliar applications should be applied during warm weather when plants are actively growing. Do not apply this product when temperatures are above 85°F as some injury to desirable grasses or turf may be expected.
- Application under low moisture or dry soil conditions may reduce herbicide effectiveness. Wet foliage at the time of application may decrease control.
- Applications of EH-1493 are rainfast within 3 hours after application. For best results avoid watering or irrigation for 24 hours after application.
- Extreme growing conditions such as drought or cold temperatures prior to, at the time of, or following an application may reduce or delay control.
- Do not reseed pastures [or lawns] until at least three weeks after treatment.
- Do not use on newly seeded grasses until grass has established a good root system and is tillering.
- Direct spray on target plants and minimize loss of product through spray drift.

3. Precautions

- Do not enter or allow people (or pets) to enter treated area until sprays have dried.
- This product will kill or injure all broadleaf and woody plants contacted. Do not directly spray areas containing desirable broadleaf plant species including legumes (such as clover or alfalfa), unless injury or loss of the plants can be tolerated. Do not allow EH-1493 to come into direct contact with cotton, grapes, tobacco, vegetable crops, citrus, flowers, fruit or ornamental trees, or other desirable broadleaf plants.
- If a second application is needed, allow 30 days between applications before retreating.
- For ground application only. Aerial applications are not permitted. Do not apply this product through any type of irrigation system.
- 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) of 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.

4. Spray Preparation

Mixing with Water or Oil: Add one-half the required amount of water or oil to the spray tank, then add EH-1493 Herbicide slowly with agitation, and complete filling the tank with water or oil. Mix thoroughly and continue agitation while spraying. When this product is left standing for extended periods of time (4 to 5 hours), re-agitate to assure uniformity of the spray mixture.

5. Application Rates for Treatment in Pastures, Rangeland, and Non-Cropland

Pastures and rangelands are defined as established grass pastures, rangeland, and perennial grasslands including the Conservation Reserve Program (CRP). Pastures established with these grasses may be treated: bahiagrass, bermudagrass, bluegrass, brome, reed canarygrass, fescue, orchardgrass, ryegrass, timothy, and wheatgrass.

Non-croplands are defined as fencerows, hedgerows, roadside ditches, non-irrigation ditchbanks, rights-of-way, farmsteads, and other non-crop areas.

Table 1. Weeds Controlled: This product will control or suppress many broadleaf weeds (annual, biennial and perennial) including the weeds listed below.

Annuals			
catchweed cocklebur, common croton daisy, English eastern black nightshade Florida pusley fleabane, annual jimsonweed knotweed	kochia lettuce, wild lambsquarters, common mallow, common marestail (horseweed) Mexican prickly poppy morningglory mustard, wild, tansy and yellow	nightshade pennycress, field pepperweed, Virginia pigweed, redroot, rough smooth, spiny puncturevine ragweed, common and giant shepherdspurse	smartweed, Pennsylvania sneezeweed, bitter sowthistle, annual spiny amaranth sunflower, common velvetleaf waterhemp wild carrot
Biennials			
burdock, common cockle, white evening primrose Henbit	Mullen, common plantain, bracted poison hemlock	ragwort, tansy spotted knapweed starthistle, yellow	sweetclover thistle, bull, milk, musk, plumeless and Scotch
Perennials			
absinth wormwood bindweed, field and hedge buttercup, tall bracken fern chickweed chicory clover, white dandelion dock, curly and broadleaf dogfennel	firewood hemp hoary alyssum horsenettle horsetail goatweed goldenrod ground ivy (creeping Charlie) ironweed	knapweed leafy spurge lespedeza, sericea lespedeza, common milkweed, common plantain, buckhorn poison ivy poison oak poison sumac pokeweed	ragweed, western smartweed, swamp Sowthistle Stinging nettle thistle, Canada vetch vervain, blue white snakeroot wild violets yarrow, common

5.1 Broadcast Application Rates for Weed Control

The broadcast application rate is 2 to 4 pints per acre (0.75 to 1.5 fl.oz. per 1000 sq.ft.). See Tables 2 and 3 for typical spray mix rate and how to select application rates. Spray equipment options include tow-behind or all terrain vehicle (ATV) sprayers with spray boom or spray bar. To calibrate your application equipment contact your sprayer manufacturer or consult your equipment owner's manual for speed and pressure settings required to deliver the spray solution at a target volume of 1 gallon per 1,000 sq.ft. (or 43 gallons per acre). See Section 5.5 for application restrictions.

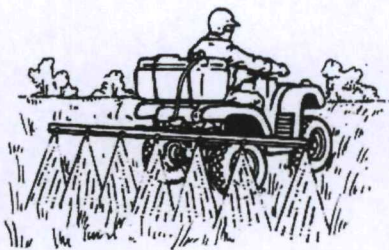


Table 2. Typical Spray Mix Rate for Broadcast Applications

Application Rate	Area to Spray and Dilution Rate			
	Rate per gallon	Rate per 15 gallons	Rate per 25 gallons	Rate per acre
	Coverage area per gallon of mixed solution is 1,000 sq.ft.	Coverage area per 15 gallons of mixed solution is 15,000 sq.ft.	Coverage area per 25 gallons of mixed solution is 25,000 sq.ft.	1 acre = 43,560 sq.ft.
Low Rate	0.75 fl.oz. per 1 gal of water	11.25 fl.oz. per 15 gal of water	18.75 fl.oz. per 25 gal of water	2.0 pt per 43 gal of water
Mid Rate	1.25 fl.oz. per 1 gal of water	18.75 fl.oz. per 15 gal of water	31.25 fl.oz. per 25 gal of water	3.4 pt per 43 gal of water
High Rate	1.50 fl.oz. per 1 gal of water	22.50 fl.oz. per 15 gal of water	37.50 fl.oz. per 25 gal of water	4.0 pt per 43 gal of water

Calibrate sprayer to apply 1 gallon of spray solution per 1,000 sq.ft. (or 43 gallons of spray solution per acre). Contact your sprayer manufacturer or consult your equipment owner's manual for speed and pressure settings required to deliver target spray volume. (Alternate spray volumes of 20 to 100 gal per acre are also acceptable. Modify above dilution rates as needed to accommodate the alternate spray volume.)

Table 3. How to Choose Broadcast Application Rate

Application Rate	Considerations
Low Rate	Annuals: Treat when plants are small (3 to 4 inches tall) actively growing. and/or Biennials: Apply when in the seedling to rosette stage and before the development of flower stalks. and/or Growing Conditions: Young, actively growing, sensitive weed species
Mid Rate	Perennials: Use for dense vegetation, weeds beyond the appropriate growth stages, difficult to control (resistant) weed species. and/or Growing Conditions: Stress conditions such as drought and/or high temperatures
High Rate	Difficult to control weeds: Apply to perennial weeds in bud to bloom stage with active growth. (Depending on plant growth stage and environmental conditions at the time of application regrowth may occur on hard-to-control species such as field bindweed, chicory, dogfennel, goldenrod, horsenettle, kudzu, milkweed, perennial sowthistle, leafy spurge, ground ivy (creeping Charlie), wild violets and Canada thistle. Biennial and perennial weeds may require a follow-up or spot treatment.) and/or Woody plants: The most favorable period for treatment is after the plants have fully leafed in the spring and continues into early summer, depending on temperature, soil moisture and other conditions. For control of multiflora rose and other wild roses, the best time for treatment may be expected during the early to mid-flowering stage. and/or Growing Conditions: Extreme stress conditions such as drought and/or extreme temperatures

5.2 Spot Treatment Application Rates for Weed Control

The spot treatment application rate is 1 to 2.5 fl.oz. per gallon of water. Spray until leaves are thoroughly wet but not dripping. See Table 4 for how to choose application rates. Adjust sprayer nozzle to a coarse spray (low pressure, big droplet). Spray equipment options include all terrain vehicle (ATV) sprayers fitted with a spray wand or spray gun, backpack sprayers, and hand-operated or hand-held sprayers.

Depending on plant growth stage and environmental conditions at the time of application regrowth may occur on hard-to-control species such as field bindweed, chicory, dogfennel, goldenrod, horsenettle, kudzu, milkweed, perennial sowthistle, leafy spurge, and Canada thistle. Biennial and perennial weeds may require a follow-up treatment. See Section 5.5 for application restrictions.



Table 4. How to Choose Spot Treatment Application Rate

Amount of product per 1 gallon of water	Growing Conditions, Plant Stage
1.0 fl.oz.	Young, actively growing, sensitive weed species
1.5 fl.oz.	Dense weed stands, larger weeds
2.0 fl.oz.	Stress conditions such as drought or high temperatures
2.5 fl.oz.	Mature, dense weeds. Extreme stress conditions such as drought or extreme temperatures

5.3 Spot Treatment Application Rates for Control of Brush, Woody Plants and Vines

The spot treatment application rate is 1 to 2.5 fl.oz. per gallon of water. Spray brush, woody plants, and vines until foliage and green stems are thoroughly wet but not dripping. See Tables 5 and 6 for how to choose application rates and species controlled. Adjust sprayer nozzle to a coarse spray (low pressure, big droplet). Spray equipment options include all terrain vehicle (ATV) sprayers fitted with a spray wand or spray gun, backpack sprayers, and hand-operated or hand-held sprayers.

Spot treatments of brush, woody plants and vines should occur when plants are actively growing, in the full leaf stage in the spring to early summer and growing under favorable environmental conditions. For multiflora rose control and other wild roses, the best time for treatment may be expected during the early to mid-flowering stage. (Depending on plant growth stage and environmental conditions at the time of application regrowth may occur on hard-to-control species requiring a follow-up treatment.) Delay mowing or clipping 2 days before or until 2 days after the application of this product. See Section 5.5 for application restrictions.

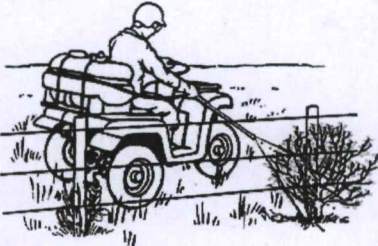


Table 5. Spot Treatment Application Rates

Amount of product per 1 gallon of water	When to Use, Growing Conditions, Plant Stage
1.0 fl.oz.	Young, actively growing, easy to control species
1.5 fl.oz.	Mid size, actively growing, easy to control species
2.0 fl.oz.	Large plants or stress conditions such as drought or high temperatures
2.5 fl.oz.	Large, dense plant populations or hard to control species

Table 6. Brush, Woody Plants and Vines Controlled: This product will control or suppress many brush, woody plant and vine species including the ones listed below.

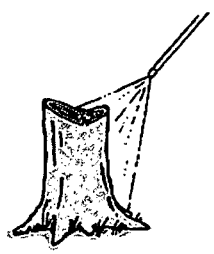
Easy to Control Species:			
alder	cottonwood	maples (bigleaf and vine use basal stem treatment ¹)	sycamore
ash	dogwood		tamarack
beech	elderberry	poison ivy	wax myrtle ¹
birch	hawthorn	poison oak	wild grape
black locust	hemlock	sassafras ¹	wild plum
boneset	honeysuckle	scotch broom	wild roses
casacara	maples	sumac (including poison sumac)	willow
Ceanothus spp.			
Harder to Control Species			
Baccharis, eastern	elm (except winged elm)	pine (suppression)	Wax myrtle
blackberry	gourd, Texas	Russian olive	white oak
buckbrush (Symphoricarpos spp.) (suppression)	hackberry	salmonberry (suppression)	
buckthorn	hazel	sweetgum	For control of blackberry and multiflora rose species consider dormant stem applications or basal bark treatments.
cherry (except black)	honeylocust (suppression)	tropical soda apple	
Chinese tallow tree	Himalayan blackberry	trumpet creeper	
common persimmon (suppression)	kudzu	(suppression)	
	multiflora rose	Virginia creeper	
	osage orange		

¹Top growth control only

5.4 Spot Treatment of Individual Plants

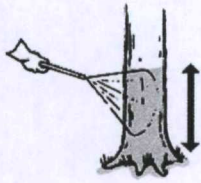
Cut-stump or Cut-surface Application for Tree and Brush Control

To prevent or control regrowth from cut stumps, mix 8 fl.oz. of EH-1493 with 1 gallon of diesel oil or kerosene. Thoroughly wet the outer 1/3 of the flat cut surface and all of the vertical bark surface of the stump including crown buds and ground sprouts. Apply this to the freshly cut surface of the stump immediately after cutting. Delays in application may reduce the effectiveness. Cut-stump applications can be made at any time of the year except when snow, ice or water prevents spraying to the ground line. Use only one cut-stump or cut-surface application per year. See Section 5.5 for application restrictions.



Basal Bark Application for Small Tree Control and Brush Control

For control of susceptible brush and small trees less than 6 inches in diameter, mix 8 fl.oz. of EH-1493 with 1 gallon of diesel oil or kerosene. Spray to a height of 15 to 20 inches from the ground level (known as the basal part of the brush or trees). Thoroughly wet all the basal bark area including crown buds and ground sprouts. Spray runoff should visibly wet the ground at the base of the stems or trunks. Basal applications can be made at any time of the year except when snow, ice or water prevents spraying to the ground line. Best results may be obtained with winter to early spring applications. Trees larger than 5 to 6 inches in diameter have bark too thick for basal sprays to penetrate and to reach the cambium. For trees larger than 5 to 6 inches in diameter use the cut-stump or cut-surface application. See Section 5.5 for application restrictions.



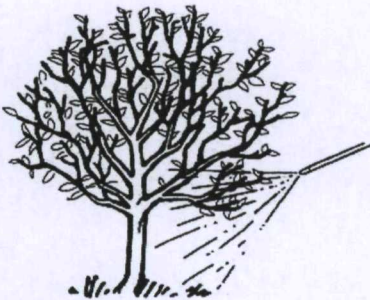
Dormant Stem (no leaves or buds) Applications for Brush Control

To control susceptible brush species including locust, multiflora rose and blackberry species, mix 8 fl.oz. of EH-1493 to 1 gallon of diesel oil or kerosene. Thoroughly apply mixture to target species wetting upper and lower stems and branches including the root collar and any ground sprouts. Treat at any time when the brush is dormant and the bark is dry. Best results may be obtained with winter to early spring applications. Do not treat when snow, ice or water prevent spraying to the ground level. For brush over 8 feet in height use the basal bark application, cut stump or cut surface application to treat effectively. See Section 5.5 for application restrictions.



Mesquite Control

For control of mesquite less than 6 inches in diameter, [mix 16 to 120 fl.oz. of EH-1493 with diesel oil or kerosene to make 1 gallon of spray solution] [apply EH-1493 undiluted]. Spray to a height of 15 to 20 inches from the ground level (known as the basal part of the brush or trees). Thoroughly wet all the basal bark area including crown buds and ground sprouts. Spray runoff should visibly wet the ground at the base of the stems or trunks. Basal applications can be made at any time of the year except when snow, ice or water prevents spraying to the ground line. Best results may be obtained with winter to early spring applications. For mesquite larger than 5 to 6 inches in diameter use the cut-stump or cut-surface application to treat effectively. See Section 5.5 for application restrictions.



5.5 Restrictions for Applications to Pasture and Rangelands

Pastures and rangelands are defined as established grass pastures, rangeland, and perennial grasslands including the Conservation Reserve Program (CRP). Pastures established with these grasses may be treated: bahiagrass, bermudagrass, bluegrass, brome, reed canarygrass, fescue, orchardgrass, ryegrass, timothy, and wheatgrass.

Maximum Application Rates

Do not apply more than 4 pints of product per acre per application [1.0 lb 2,4-D acid equivalent, 0.25 lb triclopyr acid equivalent and 0.10 lb dicamba acid equivalent per acre per application]. Use one broadcast application per year (season). The maximum seasonal rate is 4 pints of product per acre per season [1.0 lb 2,4-D acid equivalent, 0.25 lb triclopyr acid equivalent and 0.10 lb dicamba acid equivalent per acre per year].

Grazing and Slaughter Restrictions: Do not allow lactating dairy animals to graze treated areas until the next growing season following application of this product. Withdraw livestock from grazing treated grass or consumption of treated hay at least 3 days before slaughter. Except for lactating dairy animals and the slaughter restriction, there are no grazing restrictions for animals (including horses, cows, goats, and sheep).

Haying Restrictions: Do not cut hay for harvest within 14 days following application.

Prohibitions: Postemergent treatments of this product may injure or kill legumes including alfalfa, clovers, lespedezas, sweet clover, trefoils and vetches. Do not spray grass/legume mixtures unless injury or plant loss can be accepted [tolerated]. Do not use this product on newly seeded grasses including, but not limited to buffalograss, kleingrass, sideoats grama, and switchgrass. Do not use this product on forage sorghum, sudangrass, corn, and cereal grains (wheat). Do not reseed treated areas for three weeks after treatment.

5.6 Restrictions for Applications to Non-Croplands

Non-croplands are defined as fencerows, hedgerows, roadside ditches, non-irrigation ditchbanks, rights-of-way, farmsteads, and other non-crop areas.

Maximum Application Rates

Do not apply more than 4 pints of product per acre per application [1.0 lb 2,4-D acid equivalent, 0.25 lb triclopyr acid equivalent and 0.10 lb dicamba acid equivalent per acre per application]. The maximum number of broadcast applications per year is two per year with a minimum interval between applications of 30 days. Application to woody plants is limited to 1 application per year. The maximum seasonal rate is 8 pints of product per acre per season [2.0 lb 2,4-D acid equivalent, 0.50 lb triclopyr acid equivalent and 0.20 lb dicamba acid equivalent per acre per year].

Prohibitions: Postemergent treatments of this product may injure or kill legumes including alfalfa, clovers, lespedezas, sweet clover, trefoils and vetches. Do not spray grass/legume mixtures unless injury or plant loss can be accepted [tolerated]. Do not use this product on newly seeded grasses including, but not limited to buffalograss, kleingrass, sideoats grama, and switchgrass. Applications to noncropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. Do not reseed treated areas for three weeks after treatment.

6. Lawns, Yards, and Residential Turfgrass (including lawns around farm buildings)

EH 1493 Herbicide may be applied to cool season turfgrass (Kentucky bluegrass, annual bluegrass, perennial ryegrass, tall fescue, red or fine leaf fescues and mixtures of these species) and dormant warm season turfgrass (dormant hybrid Bermudagrass, dormant common Bermudagrass, dormant zoysiagrass and dormant bahiagrass) for broadleaf weed control. Do not apply this product to St. Augustine grass (including Floratam) bentgrass or newly seeded grass.

Delay application of this product to grass seedlings until after the second or third mowing. Treated areas may be reseeded 3 weeks after application. If dry conditions exist, a scheduled irrigation or watering 24 hours before and 24 hours after application is recommended. Delay mowing 2 days before and until 2

days after the application of this product. Fall applications provide improved control for emerged winter annuals and perennials such as henbit, chickweed, clover and ground ivy (creeping Charlie). Spot treatments during the summer may be appropriate for sparse infestations or as a follow-up treatment.

Turfgrass tolerance: Tolerant turf species listed on this label may exhibit temporary turf injury. The best tolerance occurs under optimal conditions for the turfgrass. Adverse environmental conditions may reduce the selectivity on the turfgrass. Injury may occur under marginal conditions (e.g. low temperatures and drought stress) or under extreme conditions (e.g. high temperatures and high humidity). To avoid turf injury use only on turfgrass that is reasonably free of stress, including diseases, insects, excess heat or cold, drought or excess rainfall/irrigation, improper mowing or improper applications of fertilizer and pesticides. Do not broadcast apply this product when temperatures are above 85°F; some injury can also be expected with spot treatments when air temperatures exceed 85°F.

Table 7. Broadleaf Weeds Controlled: This product will control or suppress the following broadleaf weeds.

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

* Synonyms

6.1 Broadcast Application Rates

The broadcast application rate for Cool-Season Turfgrass (Kentucky bluegrass, annual bluegrass, perennial ryegrass, tall fescue, red or fine leaf fescues and mixtures of these species) is 1.2 to 1.5 fl.oz. per 1000 sq.ft. Do not apply to bentgrass or newly seeded grass. See Table 8 for typical spray mix rate.

The broadcast application rate for Warm-Season Turfgrass (dormant hybrid Bermudagrass, dormant common Bermudagrass, dormant zoysiagrass and dormant bahiagrass) is 0.75 to 0.83 fl.oz. per 1000 sq.ft. Do not apply to St. Augustine grass (including Floratam) or newly seeded grass. See Table 9 for typical spray mix rate.

Spray equipment options include tow-behind sprayers with spray boom or spray bar. To calibrate your application equipment contact your sprayer manufacturer or consult your equipment owner's manual for speed and pressure settings required to deliver the spray solution at a target volume of 1 gallon per 1,000 sq.ft. (or 43 gallons per acre).



Table 8. Broadcast Application Rates to Cool-Season Turfgrass (Kentucky bluegrass, annual bluegrass, perennial ryegrass, tall fescue, red or fine leaf fescues and mixtures of these species.)

Application Rate	Area to Spray and Dilution Rate			
	Rate per gallon	Rate per 15 gallons	Rate per 25 gallons	Rate per acre
	Coverage area per gallon of mixed solution is 1,000 sq.ft.	Coverage area per 15 gallons of mixed solution is 15,000 sq.ft.	Coverage area per 25 gallons of mixed solution is 25,000 sq.ft.	1 acre = 43,560 sq.ft.
Low Rate	1.2 fl.oz. per gal of water	18.0 fl.oz. per 15 gal of water	30.0 fl.oz. per 25 gal of water	3.25 pt per 43 gal of water
High Rate	1.5 fl.oz. per gal of water	22.5 fl.oz. per 15 gal of water	37.5 fl.oz. per 25 gal of water	4.00 pt per 43 gal of water

Sprayer must be calibrated to apply 1 gallon of spray solution per 1,000 sq.ft. (or 43 gallons of spray solution per acre). Contact your sprayer manufacturer or consult your equipment owner's manual for speed and pressure settings required to deliver target spray volume.

Table 9. Broadcast Application Rates to Warm-Season Turfgrass (Dormant Hybrid Bermudagrass, dormant common Bermudagrass, dormant zoysiagrass and dormant bahiagrass. Do not apply this product to St. Augustine grass (including Floratam) bentgrass or newly seeded grass.)

Application Rate	Area to Spray and Dilution Rate			
	Rate per gallon	Rate per 15 gallons	Rate per 25 gallons	Rate per acre
	Coverage area per gallon of mixed solution is 1,000 sq.ft.	Coverage area per 15 gallons of mixed solution is 15,000 sq.ft.	Coverage area per 25 gallons of mixed solution is 25,000 sq.ft.	1 acre = 43,560 sq.ft.
Low Rate	0.75 fl.oz. per gal of water	11.25 fl.oz. per 15 gal of water	18.75 fl.oz. per 25 gal of water	2.00 pt per 43 gal of water
High Rate	0.83 fl.oz. per gal of water	12.45 fl.oz. per 15 gal of water	20.75 fl.oz. per 25 gal of water	2.25 pt per 43 gal of water

Sprayer must be calibrated to apply 1 gallon of spray solution per 1,000 sq.ft. (or 43 gallons of spray solution per acre). Contact your sprayer manufacturer or consult your equipment owner's manual for speed and pressure settings required to deliver target spray volume.

Dormant turf: This product may be applied to fully dormant Bermudagrass, fully dormant Zoysia and fully dormant bahiagrass.

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.

6.2 Spot Treatment Rates

The spot treatment application rate for Cool-Season Turfgrass (Kentucky bluegrass, annual bluegrass, perennial ryegrass, tall fescue, red or fine leaf fescues and mixtures of these species) is 1.5 fl.oz. per gallon of water per 1000 sq.ft. Do not apply to bentgrass or newly seeded grass.

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The spot treatment application rate for Warm-Season Turfgrass (dormant hybrid Bermudagrass, dormant common Bermudagrass, dormant zoysiagrass and dormant bahiagrass) is 0.75 to 0.83 fl.oz. per gallon of water per 1000 sq.ft. Do not apply to St. Augustine grass (including Floratam) or newly seeded grass.

Spray until leaves are thoroughly wet but not dripping. Adjust sprayer nozzle to a coarse spray (low pressure, big droplet). Spray equipment options include tank sprayers, pump-up sprayers, hand pump sprayers, back pack sprayers, and spot sprayers. Do not make spot treatments with hose-end sprayers.



6.3 Maximum Application Rates

Lawns, Yard and Residential Turfgrass: Do not apply more than 4 pints of product per acre [1.5 fl.oz. of product per 1000 sq.ft.] per application [0.88 lb 2,4-D acid equivalent, 0.25 lb triclopyr acid equivalent and 0.10 lb dicamba acid equivalent per acre per application]. The maximum number of applications per year is two. The maximum seasonal rate is 8 pints of product per acre [or 3.0 fl.oz. of product per 1000 sq.ft.] per season [1.75 lb 2,4-D acid equivalent, 0.50 lb triclopyr acid equivalent and 0.20 lb dicamba acid equivalent per acre per year].

7. 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

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

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.

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.

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.

Equipment

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

STORAGE AND DISPOSAL

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

[For Plastic Containers – Nonrefillable with capacities equal to or less than 5 gallons:]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse [or pressure rinse] container (or equivalent) promptly after emptying. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

[OR

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

[For Plastic Containers – Nonrefillable with capacities greater than 5 gallons:]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse [or pressure rinse] container (or equivalent) promptly after emptying. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the

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container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

[OR

[Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

LIMITED WARRANTY AND DISCLAIMER

FOR USE ONLY AS DIRECTED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. If these terms are not acceptable, return this product unopened immediately to the point of purchase, and the purchase price will be refunded in full. The terms of this LIMITED WARRANTY STATEMENT cannot be varied by any written or verbal statements or agreements at the point of sale or elsewhere.

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. _____

2. Advertising claims that may be presented on container labeling, advertisements, brochures, and other marketing/sales promotional materials:

- [Controls], [kills] [brush] [brushy weeds] [weeds] [thistles] [including] [poison ivy], [and] [poison oak], [may include any species listed on label]
- [Controls], [kills] [weeds] [brush] [and] [stumps]
- Makes up to xx gallons [of spray solution]
- 1 [pint], [quart], [gallon], [container] makes up to XX gallons [of spray solution]
- 1 [pint], [quart], [gallon], [container] covers [up to] XX [sq ft] [acres] [of pasture] [of turf]
- Mixes with water or [diesel fuel], [kerosene], [oil] [carrier]
- Effective stump killer
- Kills stumps
- Stops [kills] stump [and prevents] [sprouts] re-growth
- May be used in pastures grown for hay.
- [Effective] pasture herbicide [for tough] [weeds] [and] [brush] [control].
- [Controls], [kills], [thistles], [wild roses], [buckbrush] [and more weeds listed on label]! [may include any species listed on label]

- [Controls], [kills] [thistles], and [wild roses], [and many other] [broadleaf weeds] [and] [brush] [listed on label] in [pastures] [lawns]. [may include any species listed on label]
- [Controls] [kills] weeds including [Canada thistle], [musk thistle], and [leafy spurge]. [may include any species listed on label]
- [Controls] [kills] [weeds] [and] [brush] with [spines] [and] [thorns]
- [Controls] [kills] weeds and brush
- [Controls] [kills] weeds [and] [or] [brush] to optimize grazing [area]
- Designed for use with [ATV sprayers] [and] [or] [tow-behind sprayers] [and] [or] [tank sprayers] [and] [or] [pump-up sprayers] [and] [or] [sprayers]
- Can be used with [Brand X] [ATV sprayers] [and] [or] [tow-behind sprayers] sprayer
- Labeled for use on [pastures] [and] [lawns] [and] [brush]
- Triple action formula
- Treats [select] northern and [select] southern grasses.
- Kills the root.
- [Kills] [controls] XX+ [weeds] [and] [brush].
- Starts working [quickly] overnight
- Works overnight for visible results
- A broadleaf weed and brush killer
- [Broadleaf weed] [and] [brush] control.
- For [post emergent] [effective] control of [unwanted] [broadleaf] [weeds] [and] [brush]
- [Controls] [kills] weeds and brush [in] [pastures] [fencerows] [CRP land] [non-crop areas] [on] [farmsteads]
- Rain-Proof in less than XX hours.
- No Surfactant Required
- [Fenceline] [fencerow] cleanup
- [Controls] [kills] [woody] [brush] [and] [weeds]
- A Brush and Broadleaf Herbicide for Non-cropland and Turf
- Works on actively growing woody plants & weeds
- [Tool] for cleaning up trees or shrubby brush
- Contains [three] [3] active ingredients
- Contains [three] [3] active ingredients for [effective] [weed] [and] [brush] [any pest(s) listed on the label] control
- Includes dormant stem and basal bark treatments for all season application
- Designed as a chainsaw companion
- Treats [cut stumps] [and] [brush]
- Brush and Stump Treatment
- [includes] [Broadcast spray] [Foliar Spray] [Basal Bark] [and] [Cut Stump] [applications]
- [Controls] [kills] hard-to-control [brush] [and] [weeds] including poison ivy and poison oak [may include any species listed on label]
- Kills Stumps down to the Roots
- Oil-based [formula]
- [Kills] [controls] even the tough [weeds] [and] [brush] [...roots]!
- Controls [kills] [woody brush such as] [may include any species listed on label]
- Includes [listed weed] control use instructions
- Kills [controls] tough woody brush & weeds
- Controls [kills] unwanted woody plants
- Cool weather performance
- Works in cool temperatures
- For cooler temperatures
- Product for cool [application] conditions
- Contains [three] [3] active ingredients for [effective] [any pest(s) listed on the label] control.
- 16 ounces = 1 pint
- 32 ounces = 1 quart

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- 128 ounces = 1 gallon
- 1 pint = 16 ounces
- 1 quart = 32 ounces
- 1 gallon = 128 ounces
- 2 pints = 1 quart
- 4 quarts = 1 gallon
- 1 cup = 8 ounces
- 1 acre = 43,560 sq. ft.
- 43,000 sq. ft. = 1 acre

DOCUMENT CONTROL INFORMATION

1. **Unique Label Identifier:** 002217-00YYY.20110630.new-proposed-EH1493-clean.doc
2. **Reason for Issue:** new registration, revised per EPA comments