



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

2217-1051

Date of Issuance:

10/4/19

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

EH-1633 Herbicide

Name and Address of Registrant (include ZIP Code):

Eric D. Smith  
PBI/Gordon Corporation  
P.O. Box 860350  
Shawnee, KS 66286

**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 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Sincerely,

Mindy Ondish, Product Manager 23  
Herbicide Branch, Registration Division (7505P)

Date:

10/4/19

2. You are required to comply with the data requirements described in the DCI or EDSP Order identified below:
  - a. 2,4-D GDCI-030063-1362

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 2217-1051.”
5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under 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. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 10/11/2018
- Alternate CSF 1 dated 10/11/2018
- Alternate CSF 2 dated 10/11/2018

If you have any questions, please contact Julia Kerr by phone at 703-347-0386, or via email at [kerr.julia@epa.gov](mailto:kerr.julia@epa.gov). Enclosure

**ACCEPTED**

10/04/2019

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 2217-1051

2,4-D	GROUP	4	HERBICIDE
CARFENTRAZONE-ETHYL	GROUP	14	HERBICIDE

## EH-1633 HERBICIDE

### EPA Reg. No. 2217-1051

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

**ACTIVE INGREDIENTS:**

Carfentrazone-ethyl .....	0.29%
2,4-D, 2-ethylhexyl ester .....	25.97%
<b>OTHER INGREDIENTS:</b> .....	<u>73.74%</u>
<b>TOTAL</b> .....	<b>100.00%</b>

**THIS PRODUCT CONTAINS:**

- 0.025 lb Ethyl  $\alpha$ ,2-dichloro-5-[4(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate per gallon or 0.29%.
- 1.50 lb 2,4-dichlorophenoxyacetic acid equivalent per gallon or 17.23%.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

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

See attached booklet [inside pages] for complete Precautionary Statements and Directions for Use, including First Aid and Storage and Disposal.

**Net Contents:** \_\_\_\_\_  
**EPA Est. No.** \_\_\_\_\_

**Company Name and Address:**  
PBI/Gordon Corporation  
P.O. Box 860350  
Shawnee, KS 66286



# **PRECAUTIONARY STATEMENTS**

## **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear: Long-sleeved shirt and long pants, socks, shoes.

## **Personal Protective Equipment (PPE)**

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

- long-sleeved shirt and long pants,
- shoes and socks,
- chemical-resistant gloves made of barrier laminate, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, or Viton ≥14 mils when applying with any hand-held nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate,
- chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

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 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 swallowed:**

- 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 by a poison control center or doctor.
- Do not give anything 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 information.

## **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.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals 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.

**Fish Advisory Statement:** This product may be hazardous to aquatic organisms, particularly in clear, shallow water bodies that are adjacent to treated areas. Transport to water by runoff or spray drift of this

product in areas where surface water is present, or intertidal areas below the mean high water mark, should be avoided. Do not contaminate water when disposing of equipment wash water or rinsate.

**Non-target Organism Advisory Statement:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by minimizing spray drift.

## **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 12 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,
- waterproof gloves,
- shoes and socks.

### **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-1633 HERBICIDE contains two active ingredients: one that provides rapid response -- weeds start to turn yellow within hours, and the other finishes the job, delivering dependable control of susceptible broadleaf weeds in 10 to 14 days. EH-1633 HERBICIDE controls weeds by affecting multiple sites within the broadleaf weeds, and woody plants. The symptoms of control include leaf and stem curl or twisting, and weed yellowing.

**EH-1633 HERBICIDE offers these advantages:**

- Rainfast in as little as three hours.
- Grazing allowed 7 days after treatment.
- This product exhibits improved cool-weather performance.

## 2. Use Restrictions

- Only use for sites, pests, and application methods specified on this labeling.
- Endangered Species: It is a Federal offense to use any pesticide in a manner that results in the death of an endangered species. Use of this product may pose a hazard to endangered or threatened species. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the county in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1-800-447-3813. You must use the Bulletin valid for the month in which you will apply the product.
- 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 greens and tees established on golf courses.
- Do not apply to agricultural irrigation water or on agricultural irrigation ditchbanks or canals.
- Do not apply this product to St. Augustinegrass, creeping bentgrass mowed under 1/2 inch, carpetgrass, dichondra, legumes, and lawns where desirable clovers are present.
- Do not broadcast apply this product when ambient temperatures are above 90°F. Some injury may be expected with spot treatments when air temperatures exceed 90°F.
- For ground application only. Aerial applications are not permitted.
- Chemigation: Do not apply this product through any type of irrigation.
- Do not contaminate water used for irrigation or for domestic purposes.
- Not for use on sod farms.

### State Restrictions:

- This product is not for sale or use in California.
- 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 Website: <http://www.epa.gov/espp/litstatus/wtc/index.htm>.

## 3. Weed Resistance Management

For resistance management, this product contains Group 4 and Group 14 herbicides. Any weed population may contain or develop plants naturally resistant to this product and other Group 4 or 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of this product or other Group 4 or 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use, and that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: 1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; 2) a spreading patch of non-controlled plants of a particular weed species; 3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected,

prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.

- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or pest control advisor for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of turf and weed biotypes.
- For further information or to report suspected resistance, call 800-884-3179.

#### **4. Spray Preparation And Tank Mixtures**

EH-1633 HERBICIDE is an aqueous suspo-emulsion (SE) that can be diluted with water or liquid fertilizer to form a stable emulsion.

##### **Mixing with water:**

Add one-half the required amount of water to the spray tank, then add EH-1633 HERBICIDE 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.

##### **Mixing with liquid fertilizers:**

Use suitable sources and rates of fertilizer based upon guidance of your fertilizer supplier or State Extension Service Specialist.

Verify physical compatibility with a 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 must not be prepared as a tank mixture.

Liquid fertilizers are either solutions (true fluids) or suspensions. Physical compatibility of this product is adequate with liquid nitrogen solutions. Mixing this product with suspensions or N-P-K solutions may not be satisfactory (may be marginal) without pre-mixing this product with water. Premixing this product with 2 parts water will ensure that the emulsifiers are activated enabling the herbicide to be suspended in the fertilizer.

##### **Mixing with other pesticides:**

This product may be applied in tank mixtures with other labeled herbicides to enhance control of labeled weeds or to control weeds not listed on this label. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

#### **5. 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 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.



Spray volumes of 10 to 100 gal per acre with spray pressures adjusted to between 20 to 40 psi. Use higher spray volumes for dense weed populations (up to 220 gal per acre or 5 gal per 1,000 sq.ft.).

- Calibration and proper application are essential when using this product.
- Over-application or rates above those specified on this label can cause plant injury.
- Hand-held technique: Wands fitted with flat fan nozzle tips may be used with the appropriate technique. Wands fitted with 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 wand should be held stationary at the proper height. Side-to-side motion results in uneven coverage.

Hand operated sprayers including backpack sprayers, compression sprayers are appropriate for small turfgrass areas.

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.

## **6. Spray Drift**

### **Ground Boom Applications**

- For ground boom applications, apply with the nozzle height no more than 4 feet above the ground. For all other ground applications, the nozzle must be no more than 4 feet from the target vegetation.
- For ground applications, select nozzle and pressure that produce medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1.

## **7. Spray Drift Management**

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

This product contains 2,4-D ester as an active ingredient. 2,4-D ester may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures. Mist from spray drift may cause injury to sensitive plants. Avoid any drift conditions that would allow the product to contact desirable vegetation.

The interaction of equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

### **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.

### **Information on droplet size**

The most effective way to reduce drift potential is to apply large droplets. The optimum drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift when applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

All ground application equipment must be properly maintained and calibrated using appropriate carriers. Wind speed must be measured adjacent to the application site, on the upwind side, immediately prior to application.

### **Controlling Spray Droplet Size**

**Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows usually produce larger droplets.



**Pressure:** Do not use pressures greater than that specified by the nozzle manufacturer. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

**Number of Nozzles:** Use the minimum number of nozzles that provide uniform coverage.

**Nozzle Type:** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles.

**Application Height:** Making applications at the lowest height practical reduces exposure of spray droplets to evaporation and wind movement.

**Swath Adjustment:** Swath adjustment distance must increase, with increasing drift potential (higher wind, smaller drops, etc.).

**Drift Reduction Technology (DRT):** The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacture, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage as they become available: <https://www.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-driftreduction-technologies>

**Wind:** Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Applications shall be avoided below 3 mph due to variable wind direction and high inversion potential. Do not apply this product when wind speed exceeds 10 mph. NOTE: Local terrain can influence wind patterns. Every applicator shall be familiar with local wind patterns and how they affect spray drift.

**Temperature and Humidity:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions:** Do not apply this product during a temperature inversion because the drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the following morning. Their presence can be indicated by ground fog. However, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Shielded Sprayers:** Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

#### **Sensitive Areas**

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.

## 8. Where To Use

This product provides broadleaf weed control in pastures, lawns, turfgrass, and non-cropland.

- **Ornamental Turfgrass sites:**

- **Residential/domestic sites** including areas associated with household or home life including apartment complexes and condominiums.
- **Ornamental Turf sites** including turfgrass established around residences, parks, streets, retail outlets, cemeteries, industrial and institutional buildings, recreation areas, playgrounds, fairgrounds, golf courses, and athletic fields.

- **Non-cropland sites:** including farmyards, fencerows or fence lines; highway rights-of-way (principal, interstate, county, private, and unpaved roads); roadsides, roadside ditches, road shoulders, road embankments, dividers, and medians; industrial sites, lumberyards, tank farms, fuel or equipment storage areas; municipal, state, and federal lands; airports and military installations; railroad rights-of-way, railroad yards, railroad crossings and railroad bridge abutments; Utility rights-of-way: telephone, pipeline, electrical powerlines, and communication transmission lines.

- **Agricultural sites:** pasture grasses grown for forage, fodder, and hay.

## 9. For Use On Pasture Grasses Grown For Forage, Fodder, and Hay (Crop Group 17)

### 9.1 Postemergence Applications

**For susceptible annual and biennial weeds:** Use 5 pt of product per acre [1.8 fl.oz. of product per 1000 sq.ft.] per application.

**For moderately susceptible biennial, perennial or difficult-to-control weeds:** Use 6 to 8 pt of product per acre [2.2 to 2.9 fl.oz. of product per 1000 sq.ft.] per application. Or two sequential applications can be made at 5 pt per acre per application 30 days apart.

Coverage is essential for good weed control. Use a minimum finished spray volume of 10 gallons of spray per acre. Applications can be made to seedling grass from 5 leaf stage to boot stage. Applications to established grasses or pastures may be made up to boot stage. In situations of dense weed canopy, large weeds, or dense crop canopy, increasing spray volume to a minimum of 15 GPA by ground is recommended.

For best results, use a nonionic surfactant or crop oil concentrate. Use a nonionic surfactant (NIS) at 0.25% v/v (2 pt per 100 gal of spray solution) having at least 80% active ingredient or a petroleum or oil seed based crop oil concentrate (COC) at 1 to 2% v/v (1 to 2 gal per 100 gal of spray solution). A high quality sprayable liquid nitrogen fertilizer at 2 to 4% v/v (2 to 4 gal per 100 gal) or ammonium sulfate at 2 to 4 lb per acre may be used in addition to the selected NIS or COC.

Do not apply more than 8 pt of product (0.025 lb carfentrazone-ethyl and 1.5 lb 2,4-D ae) per acre per application. Do not make more than 2 applications per year. The minimum re-treatment interval is 30 days. Do not apply more than 10 pt of product (0.03 lb carfentrazone-ethyl and 1.88 lb 2,4-D ae) per acre per year. Do not make applications if the foliage is wet from dew, rainfall, or irrigation. Do not cut treated forage for hay within 7 days of application. Do not graze dairy animals for 7 days following application. Remove meat animals from treated grass 3 days before slaughter.

### 9.2 Weeds Controlled in Pastures

EH-1633 HERBICIDE will provide control of the listed weeds when 4 to 6 inches tall.

Bedstraw, catchweed	Horseweed (Marestail)	Nightshade, Eastern black	Ragweed, lanceleaf
Buttercup, small flower	Knotweed	Nightshade, hairy	Rocket, London

Croton, wooly (Goatweed)	Kochia	Pennycress, field	Shepardspurse
Devils Claw	Lambsquarters, common	Pepperweed, Virginia	Smartweed, Pennsylvania
Dandelion	Lettuce, prickly	Pigweed, prostrate	Sneezeweed, bitter
Evening primrose, common	Mallow, common (Cheeseweed)	Pigweed, red root	Sowthistle, annual
Evening primrose, cutleaf	Morningglory, annual	Pigweed, smooth	Spurry, corn
Filaree, redstem	Morningglory, common	Pigweed, spiny	Starthistle, yellow
Fleabane, daisy	Morningglory, ivy	Plaintain, buckhorn	Sunflower
Fleabane, rough	Morningglory, wooly	Puncturevine	Tansymustard
Flixweed	Mustard, wild	Purslane, common	Thistle, Russian
Geranium, Carolina	Nettle, stinging	Ragweed, common	Wallflower, bushy
		Ragweed, giant	

<b>Table 2. Weeds typically controlled with a single application at 6 to 8 pt per acre (2.2 to 2.9 fl.oz./1,000 sq.ft.) OR two sequential applications 30 days apart at 5 pt per acre (1.8 fl.oz./1,000 sq.ft.).</b>			
Bindweed, field	Honeysuckle	Mint, purple	Sumac
Burdock, common	Ironweed	Poison ivy	Thistle, musk
Broomweed	Jimsonweed	Sicklepod	Thistle, plumeless
Chickweed	Jerusalem Artichoke	Star of Bethlehem	Willow
Galinsoga			

EH-1633 HERBICIDE may be applied with fertilizer solutions. Up to 1/2 of the spray volume may be liquid nitrogen fertilizer. See Spray Preparation And Tank Mixtures for further information on application using fertilizer solutions as the carrier.

### 9.3 Application Precautions

EH-1633 HERBICIDE has provided good safety on grass species, however not all grass species and varieties have been evaluated. Check with local extension agents to determine if your grass species has been evaluated. If tolerance is unknown, it is recommended to try EH-1633 HERBICIDE on a small area prior to treating entire field. The application of EH-1633 HERBICIDE may result in temporary plant injury such as speckling or necrosis of the leaves.

## 10. For Use in Non-Cropland Areas

Applications to non-cropland 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.

**Spot treatment or individual woody plant treatment in non-cropland areas:** Apply to trees and brush when foliage is fully expanded and plants are actively growing. Spray broadleaf weeds, woody plants or mixed brush uniformly and thoroughly by wetting all leaves, stems, bark and root collars.

Spot treatments can be applied at rates equal to the broadcast rate up to 4 pt of product per acre (1.47 fl.oz./1,000 sq.ft.). The spray volume will depend on the density, height and type of brush (woody plants). For a total spray volume of 100 gal, mix 4 pt of products with 100 gal of water or prepare a 0.5% spray solution (vol/vol). [For a total spray volume of 1 gal, mix 0.64 fl.oz. of product with 1 gal of water or prepare a 0.5% spray solution (vol/vol).] Refer to Table 3 for quick-mix instructions for the preparation of spray concentrations up to 2.5%

**Table 3. Instructions for preparing 1 to 400 gal of spray solution up to 2.5% spray concentration with water.**

Amount of Spray solution	Amount of Product Needed for Spray Concentration of:					
	0.13%	0.17%	0.25%	0.50%	1.0%	2.5%
1 gal	---	---	---	0.64 fl.oz.	1.2 fl.oz.	3.2 fl.oz.
10 gal	1.5 fl.oz.	2 fl.oz.	3 fl.oz.	6 fl.oz.	12 fl.oz.	32 fl.oz.
20 gal	3 fl.oz.	4 fl.oz.	6 fl.oz.	12 fl.oz.	25 fl.oz.	<b>4 pt</b>
50gal	8 fl.oz.	10 fl.oz.	16 fl.oz.	32 fl.oz.	<b>4 pt</b>	---
100 gal	16 fl.oz.	20 fl.oz.	32 fl.oz.	<b>4 pts</b>	---	---
200 gal	32 fl.oz.	42 fl.oz.	<b>4 pt</b>	---	---	---
300 gal	48 fl.oz.	<b>4 pt</b>	---	---	---	---
400 gal	<b>4 pt</b>	---	---	---	---	---

Equal measures: 1 gallon = 4 quarts = 8 pints = 128 fl.oz. 1 fl.oz. = 2 tablespoons (Tbs) = 6 teaspoons (tsp)

Use a single application for rights-of-way, including electrical power lines, communication lines, pipelines, highways and railroads that intersect wooded areas or stands of trees, brush and woody plants.

Use the lower spray concentrations in the range for susceptible species and use the higher spray concentrations within the range for hard-to-control species, for mature plants during the late summer or under adverse environmental conditions (e.g. drought).

For best results, use a nonionic surfactant or crop oil concentrate. Use a nonionic surfactant (NIS) at 0.25% v/v (2 pt per 100 gal of spray solution) having at least 80% active ingredient or a petroleum or oil seed based crop oil concentrate (COC) at 1 to 2% v/v (1 to 2 gal per 100 gal of spray solution). A high quality sprayable liquid nitrogen fertilizer at 2 to 4% v/v (2 to 4 gal per 100 gal) or ammonium sulfate at 2 to 4 lb per acre may be used in addition to the selected NIS or COC.

Do not apply more than 4 pt of product (0.0125 lb carfentrazone-ethyl and 0.75 lb 2,4-D ae) per acre per application. Do not make more than 2 applications per year for annual and perennial weeds. The minimum re-treatment interval is 30 days. Do not make more than a total of 8 pt of product (0.0.025 lb carfentrazone-ethyl and 1.5 lb 2,4-D ae) per acre per year. Do not make more than 1 application per year for woody plants.

**Table 4. Brush Controlled:**

Ash	Cedar	Honeylocust (suppression)	Sumac
Aspen	Cherry (except Black	Honeysuckle	Sycamore
Beech	Cherry)	Kudzu	Trumpet creeper
Birch	Cottonwood	Multiflora Rose	Wild Grape
Blackberry	Dogwood	Oak	Wild Plum
Black Locust	Elm	Poison Ivy	Willow
Brambles	Gooseberry	Poison Oak	
Buckbrush	Hawthorn	Sycamore	

## 11. For Use on Ornamental Turfgrass Sites

### 11.1 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.

**For Residential/domestic sites, Ornamental Turf sites, and Institutional sites:**

Do not apply more than 2 broadcast treatments of this product per site per year. 30 days after the first application, a second broadcast application or a follow-up application as a spot treatment is suggested 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 or third mowing.

**For Newly Sodded, Sprigged, or Plugged Areas:**

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

**Reseeding interval:**

Treated areas may be reseeded 1 week after application.

**Turfgrass tolerance:**

- Turfgrass tolerance to this product may vary, and temporary turfgrass yellowing may occur on listed warm-season turfgrass (see Table 5).
- 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 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. Under any of these stress conditions, to the extent consistent with applicable law, 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.
- Certain spray tank additives (adjuvants, wetting agents, and surfactants), liquid fertilizers, and tank mixtures containing emulsifiable concentrates may reduce the selectivity on the turfgrass. Use adjuvants and spray additives or tank-mix combinations only when your experience indicates that the tank mixture will not result in objectionable turf injury
- Do not broadcast apply this product when temperatures are above 90°F; some injury can also be expected with spot treatments when air temperatures exceed 90°F.

**11.2 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 5. Use rates for ornamental turfgrass		
Species	Rate	Spray Volume
Cool-season Turf		

Kentucky bluegrass, perennial ryegrass, tall fescue, red or fine leaf fescues, annual bluegrass, and annual ryegrass	3.25 to 5 pt/acre (1.2 to 1.5 fl.oz./1000 sq.ft.)	10 to 100 gal/acre (29 fl.oz. to 2.3 gal/1000 sq.ft.)
<b>Warm-season Turf</b>		
Hybrid Bermudagrass, common Bermudagrass, buffalograss, seashore paspalum, kikuyugrass, and zoysiagrass	2 to 3.0 pt/acre (0.75 to 1.0 fl.oz./1,000 sq.ft.)	10 to 100 gal/acre (29 fl.oz. to 2.3 gal/1000 sq.ft.)
Centipedegrass and bahiagrass	2 pt/acre (0.75 fl.oz./1,000 sq.ft.)	10 to 100 gal/acre (29 fl.oz. to 2.3 gal/1000 sq.ft.)
<b>Dormant turf:</b> This product may be applied to fully dormant bermudagrass, fully dormant zoysiagrass and fully dormant bahiagrass.		
<b>Note:</b> Do not apply to above listed warm-season turfgrass unless turf injury can be tolerated. It is impossible to test all environmental conditions for the listed warm-season turfgrass. We suggest testing this product on a small area and observe the treated area for 30 days to determine the acceptability of turf discoloration.		
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.		

Do not apply more than 5 pt of product (0.016 lb carfentrazone-ethyl and 0.94 lb 2,4-D ae) per area per application. Do not make more than 2 applications per year. The minimum retreatment interval is 30 days. Do not apply more than 10 pt of product (0.03 lb carfentrazone-ethyl and 1.88 lb 2,4-D ae) per acre per year.

#### **SPOT TREATMENT WITH HAND OPERATED SPRAYERS (INCLUDING BACKPACK SPRAYERS AND PUMP-UP TYPE SPRAYERS):**

- Apply any time the emerged broadleaf weeds are actively growing. Spot treatments can be applied at the dosage rates equal to the specific dosage rates for broadcast treatments.
- 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 motion results in uneven coverage.
- Follow-up applications as spot treatments at a 30 day interval are suggested for more mature weeds, for dense infestations, and for adverse environmental conditions.
- **For cool-season turfgrass listed in Table 5:** Mix 1.2 to 1.5 fl.oz. of this product per 1 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 listed in Table 5:** Mix 0.75 to 1.0 fl.oz. of this product per 1 gallon of water for treatment of approximately 1,000 sq.ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible.

#### **CULTURAL TIPS**

##### **Irrigation:**

- Rainfast in as little as 3 hours. Do not apply this product immediately before rainfall or irrigation.

##### **Mowing:**

- Delay mowing 2 days before and until 2 days after the application of this product.
- Do not collect grass clippings for use as mulch or compost around flowers, trees, ornamental plants or vegetable gardens.



### 11.3 Broadleaf Weeds Controlled in Turfgrass

EH-1633 HERBICIDE will control or suppress the following broadleaf weeds. Apply any time the emerged broadleaf weeds are susceptible.

**Table 6. Weeds typically controlled with a single application at 2 to 3 pt per acre. (0.75 to 1.0 fl.oz./1,000 sq.ft.)**

Carpetweed	Mallow, common	Purslane	Wild carrot
Dandelion	Plantain, broadleaf	Shepherdspurse	Wild garlic
Dollarweed (*pennywort)	Purple cudweed		
* Synonyms			

**Table 7. Weeds typically controlled with a single application at 3 to 5 pt per acre. (1 to 1.5 fl.oz./1000 sq.ft.)**

Aster, white heath & white prairie	Dock	Innocence (Blue-eyed Mary)	Poison oak
Bedstraw	Dogfennel	Knotweed	Prickly lettuce (*compass plant)
Beggarweed, creeping	Doveweed	Lambsquarters	Puncturevine
Bindweed	English Daisy	Lawn burweed	Ragweed
Black medic	False dandelion (*spotted catsear & common catsear)	Lespedeza, common	Red sorrel (*sheep sorrel)
Broadleaf plantain	Field bindweed	Matchweed	Speedwell (Veronica)
Buckhorn plantain	(*morningglory & creeping jenny)	Mouseear chickweed	Spurge
Bull thistle	Field oxeye-daisy	Mustard	Thistle
Burdock, common	(*creeping oxeye)	Nettle	Virginia buttonweed
Buttercup, creeping	Filaree, whitestem & redstem	Old world diamond flower	White clover (*Dutch clover, honeysuckle clover, white trefoil, & purplewort)
Catnip	Florida betony	Oxalis (*yellow woodsorrel & creeping woodsorrel)	Wild geranium
Chickweed	Florida pusley	Parsley-piert	Wild lettuce
Chicory	Ground ivy	Pennsylvania smartweed	Wild mustard
Cinquefoil	Groundsel	Pennycress, field	Wild onion
Clover	Hawkweed	Pepperweed	Wild strawberry
Compassplant (*prickly lettuce)	Healall	Pigweed	Wild violet**
Cudweed	Henbit	Pineappleweed	Yarrow
Curly dock		Plantain, buckhorn	Yellow rocket
Dayflower		Poison ivy	
Deadnettle			

\* Synonyms

\*\* For best results, apply in the spring when wild violets are blooming or apply a late fall application followed by a spring application.

## 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 by other procedures approved by State and local authorities.

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.

[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**

**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. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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. 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.** 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.

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.

[Back Panel]

## Getting Started

### **[What It Does/[Kills/Controls]]:**

Broadleaf weeds [in pastures, lawns, turfgrass, and non-cropland]  
More than 100 listed broadleaf weeds  
Fast control of tough weeds – [display any weed from label weed list]  
Fast, effective control of 100+ listed weeds

### **Where To Use:**

Pastures, lawns, turfgrass, and non-cropland areas

### **[How/When] To [Use/Apply]:**

Apply any time the emerged broadleaf weeds are actively growing.  
Use a surfactant for best results

### **Coverage:**

[Quart Containers:] [Covers/Treats] up to 42,650 square feet of lawns and/or up to 17,750 square feet of pastures.

[Gallon Containers:] [Covers/Treats] up to 170,660 square feet [over 3.5 acres] of lawns and/or up to 71,100 square feet [over 1.5 acres] of pastures

For questions or comments call toll-free 800.884.3179 Mon.-Fri. 8:00 a.m. – 4:30 p.m. CST or visit:  
GordonsUSA.com

## **APPENDIX**

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

- Tough Weed [Control/Formulation]
- Consistently fast control on tough weeds – ground ivy, oxalis, thistles, dandelion, spurge, clover, plantain and [various other listed weeds].
- [weed name listed in the Directions for Use of this label] control in as little as one week
- Proven performance
- From the makers of Trimec® herbicides.
- For use on: Bluegrass, Fescues, Perennial and Annual Ryegrass, [Bermudagrass, Zoysiagrass] [and other turf species listed]
- Fast visual response
- [Tough] Weed(s) [control/controlled] — FAST!
- Suitable for applications up to 90°F
- Foliar absorption
- Low odor [formulation]
- [Tough] [Fast] Weed Control in Pastures
- Works great in cool [weather] [temperatures]
- Rapid and effective weed control in [lawns] and [pastures]
- Rainfast in as little as 3 hours
- Fast, effective control of XX listed weeds
- Weed and Brush Control
- [See] Visible results in [6 hours][for warmer temperatures] [12 hours] [for cooler temperatures] [within 24 hours/a day]
- Fast-acting weed [and brush] control for lawns and pastures

- Fast-acting control on tough weeds
- Grazing allowed 7 days after treatment.
- On pastures use a surfactant for best results
- [Fast,] [Fast-acting,] [Quick,] Dependable weed [and brush] control [for lawns and pastures]
- [Kills] [Controls] 100+ species of listed broadleaf weeds and brush
- Use in pastures, lawns, and other non-cropland areas
- Faster than LV 2,4-D ester
- Fast control of tough weeds – [display any weed from label weed list]
- Can be mixed with liquid fertilizers
- Mixes easily with liquid fertilizers
- [Apply] [Use] in cool temperatures for best control [of weeds and brush]
- Best for use when temperatures are between 50 and 80°F
- Preferred formulation for [cool temperatures] [spring and fall applications]
- Use in spring and fall
- Use for fall applications to control emerged winter annuals and perennials such as henbit, chickweed, clover, deadnettle and ground ivy.
- Use for spring applications to control dandelions, clover, broadleaf plantain, buckhorn plantain, henbit, chickweed
- Coverage
  - One gallon covers XXX sq. ft. (X acres)
  - One quart covers XXX sq. ft. (X acres)

## **DOCUMENT CONTROL INFORMATION**

**1. Unique Label Identifier:** 002217-1051.20191004.new-proposed-EH1633-clean2

**2. Reason for Issue:** EPA Comments #4