

2217-543

4/2/2014

1/18



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

James L. Kuntsman, Ph.D.
PBI/Gordon Corporation
1217 W. 12th Street
P.O. Box 014090
Kansas City, Missouri 64101

APR - 2 2014

Subject: Notification; Per PR-Notice 98-10
Trimec Herbicide
EPA Reg. No. 2217-543
Date Submitted: March 3, 2014

Dear Dr. Kuntsman:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated March 3, 2014 for the product referenced above. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Kable Bo Davis at (703) 306-0415 or davis.kable@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Montague", with a large, stylized flourish.

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



United States
Environmental Protection Agency
Washington, DC 20460

Registration

Amendment

Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 2217-543	2. EPA Product Manager Kathryn V. Montague	3. Proposed Classification
4. Company/Product (Name) Trimec Herbicide	PM# Product Manager—Team 23	<input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
5. Name and Address of Applicant (Include ZIP Code) PBI/Gordon Corporation Post Office Box 014090 Kansas City, Missouri 64101 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

NOTIFICATION

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	Other - Explain below.

APR - 2 2014

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION: Labeling notification per PRN 98-10: Notifications, Non-notifications and Minor Formulation Amendments. Section(s) II.N

- We ask to adjust the maximum application temperature to 90°F as seen in the Directions for use sections on pages 5 and 10 of the enclosed draft label.
- Also, we are updating terminology on page 1 from "INERT" to "OTHER" INGREDIENTS

e-mail to jkunstman@pbigordon.com FAX: 816-421-2731

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container If "Yes" Package wgt. No. per Container			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 gallon, 2.5 gallon, 30 and 55 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name James L. Kunstman, Ph.D.	Title Director of Regulatory Services	Telephone No. (Include Area Code) 816-460-6292
2. Signature 		6. Date Application Received (Stamped)
3. Title Director of Regulatory Services		
4. Typed Name James L. Kunstman, Ph.D.		
5. Date March 3, 2014		

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Language Common to All Sublabels

TRIMEC® HERBICIDE

EPA Reg. No. 2217-543

USE THIS PRODUCT ONLY IN ACCORDANCE WITH ITS LABELING AND WITH THE WORKER PROTECTION STANDARD 40 CFR PART 170.

ACTIVE INGREDIENT:

Dimethylamine salt of 2,4-dichlorophenoxyacetic acid	25.93%
Dimethylamine salt of (+)-(R)-2-(2-methyl-4-chlorophenoxy)propionic acid	6.93%
Dimethylamine salt of dicamba: 3,6-dichloro-o-anisic acid	2.76%
INERT OTHER INGREDIENTS:	64.38%
TOTAL	100.00%

THIS PRODUCT CONTAINS:

- 1.98 lb 2,4-dichlorophenoxyacetic acid equivalent per gallon or 21.54%
 - 0.53 lb (+)-(R)-2-(2-methyl-4-chlorophenoxy)propionic acid equivalent per gallon or 5.73%
 - 0.21 lb 3,6-dichloro-o-anisic acid equivalent per gallon or 2.29%
- Isomer Specific by AOAC Method.

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

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

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER: Corrosive. Causes irreversible eye damage. Causes skin irritation. Do not get into eyes, on skin or clothing. Harmful if absorbed through skin. Harmful if swallowed or inhaled. Avoid exposure to spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are natural rubber. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

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

- protective eyewear,
- long-sleeved shirt and long pants,

- shoes and socks,
- chemical-resistant gloves and
- chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

* Applicators may choose not to wear protective eyewear with dilution rates greater (higher) than 5:1 or greater (higher) than 5 parts of water to 1 part of product.

User Safety Requirements

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

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

First Aid	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If 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.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.</p>	
<p>Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

Environmental Hazards

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

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow,

Sublabel 1

Directions for Use presented on the container label of Trimec® Classic Brand Broadleaf Herbicide.

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 48 hours.

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

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

ORNAMENTAL LAWNS, ORNAMENTAL TURFGRASS AND SOD FARMS:

USE PRECAUTIONS:

Do not apply this product through any type of irrigation system.

Do not broadcast apply when air temperatures exceed 85°F; some injury may be expected with spot treatments when air temperatures exceed 85°F. Seed can be sown 3 to 4 weeks after application.

After using this product, clean sprayer with soap or detergent and rinse thoroughly before using other pesticides in it.

Other Use Precautions:

- Do not use this product on or near desirable plants, including contact of spray on exposed root systems or adventitious shoots within the drip line of desirable trees and shrubs, since injury may result.

Sites:

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

Also, Trimec® Herbicide provides selective broadleaf control in warm season and cool season turfgrass established for commercial sod production.

ORNAMENTAL LAWNS, ORNAMENTAL TURFGRASS AND SOD FARMS ESTABLISHED WITH COOL-SEASON AND WARM-SEASON TURFGRASSES:

Maximum control of weeds in cool season and warm season turfgrasses will be obtained from spring or early fall applications when weeds are actively growing. Do not use on carpetgrass, dichondra, nor on lawns or turf where desirable clovers are present.

Avoid spraying during long, excessively dry or hot periods unless adequate irrigation is available. Do not irrigate within 24 hours after application. Do not apply to newly seeded turf until after the second or third mowing. Grass seed can be sown 3 to 4 weeks after application at recommended rates.

General Application:

Cool Season Grasses, Common Bermudagrass, Bahiagrass, and Zoysiagrass - Apply 3.25 to 4.0 pints of product per acre with spray volumes of 20 to 260 gallons per acre (gpa). Or, apply 1.2 to 1.5 fluid ounces of product in 0.5 to 6 gallons of water per 1,000 square feet. Use the higher application rate with the higher spray volumes. The best time to control clover is in the fall. When making a spring application to control clover, the rate of 4 pints of product per acre is recommended.

Hybrid Bermudagrass - Apply 2.0 to 4.0 pints of product per acre with spray volumes of 20 to 260 gallons per acre (gpa). Or, apply 0.75 to 1.5 fluid ounces of product in 0.5 to 6 gallons of water per 1,000 square feet. Use the higher application rate with the higher spray volumes.

Certain hybrid bermudagrasses vary in tolerance to this product. Contact your local Extension Service Weed Control Specialist for turfgrass tolerance to this product.

Bentgrass, Centipedegrass, and St. Augustinegrass - On closely mowed bentgrass (putting greens, bowling greens, and show lawns), apply a maximum rate of 1.0 fluid ounce of product per 1,500 square feet with spray volumes of 5.0 gallons per 1,500 square feet. Do not apply when grass is under stress from drought or hot temperatures. Use application equipment that is capable of distributing uniform droplets over the entire area to be sprayed. Slight yellowing of turf will disappear after about one week. Care should be taken to avoid overdosing bentgrasses or injury may result.

Some injury can be expected to turf when used on centipedegrass or St. Augustinegrass lawns; spot spray weeds established in centipedegrass and St. Augustinegrass to avoid damage that may occur from

a broadcast treatment. Do not apply this product to St. Augustinegrass during spring green-up which is the transition period between dormancy and active growth. Cultivars of St. Augustinegrass vary in tolerance to this product. Do not apply this product to 'Floritam' St. Augustinegrass.

Controlled Droplet Applicator (CDA):

Cool Season Grasses, Common Bermudagrass, Bahiagrass, and Zoysiagrass - Add 2.5 pints of product to the Herbi container and fill with water. Spray contents over 33,000 square feet. Avoid overlapping between spray patterns.

Limitations on broadcast treatments for ornamental turfgrass and sod farms::

The maximum application rate is 4.0 pints of product per acre per application (0.99 lb 2,4-D ae, 0.27 lb MCP-p ae, and 0.11 lb dicamba ae per acre per application). For ornamental turfgrass, the maximum number of broadcast applications is limited to 2 per year with a minimum of 30 days between applications. For sod farms, the maximum number of broadcast applications is limited to 2 per year with a minimum of 21 days between applications. The maximum seasonal rate is 8.0 pints of product per acre (1.98 lb 2,4-D ae, 0.53 lb MCP-p ae, and 0.21 lb dicamba ae per acre).

Limitations on spot treatments for ornamental turfgrass:

Spot treatment is defined as a treatment area no greater than 1,000 sq.ft. per acre. The maximum application rate is 1.5 fl.oz. per 1,000 sq.ft. per application (0.27 lb MCP-p acid equivalent per acre) The maximum number of spot treatments is limited to 2 per year with a minimum of 30 days between applications..

Spray Drift Management

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

Droplet Size

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

Wind Speed

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

Temperature Inversions

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

Susceptible Plants

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

Other State and Local Requirements

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

Equipment

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

BROADLEAF WEEDS			
annual fleabane	dock	kochia	redweed
aster, white heath & white prairie	dogfennel	lambsquarters	yellow rocket
bedstraw	dovefoot geranium	lawn burweed	red sorrel (*sheep sorrel)
beggarticks	English daisy	lespedeza, common	roundleaf greenbriar
beggarweed, creeping	false dandelion (*spotted catsear & common catsear)	mallow, common	shepherdspurse
bindweed	field bindweed	matchweed	spotted spurge
birdsfoot trefoil	(*morningglory & creeping jenny)	mouseear chickweed	spurge
black medic	field madder	mustard	sunflower
broadleaf plantain	field oxeye-daisy	nettle	thistle
buckhorn plantain	(*creeping oxeye)	old world diamond flower	velvetleaf (*buttonweed)
bull thistle	field pennycress	<i>Oxalis</i> (*yellow woodsorrel & creeping woodsorrel)	Venice mallow
burclover	filaree, whitestem & redstem	parsley-piert	<i>Veronica</i> (*corn speedwell)
burdock, common	Florida pusley	Pennsylvania smartweed	Virginia buttonweed
buttercup, creeping	ground ivy	peppercress	Virginia-creeper
Carolina geranium	groundsel	pineappleweed	western salsify
carpetweed	hairy bittercress	plantain	white clover (*Dutch clover, honeysuckle clover, white trefoil & purplewort)
chickweed, common	hawkweed	poison ivy	wild carrot
chicory	healall	poison oak	wild garlic
cinquefoil	henbit	prostrate knotweed (*knotweed)	wild geranium
clover	horsenettle	puncturevine	wild lettuce
cocklebur	horseweed	purple cudweed	wild mustard
compassplant	innocence (Blue-eyed Mary)	purslane	wild onion
curly dock	jimsonweed	ragweed	wild strawberry
dandelion			yarrow
dayflower			
deadnettle			
*Synonyms			

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in *Washington Toxics Coalition, et.al. v. EPA*, C01-0132C, (W.D. WA). For further information, please refer to EPA Web Site: <http://www.epa.gov/espp>.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a locked storage area. 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. 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 [or pressure rinse] container (or equivalent) promptly after emptying.

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. 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 [or pressure rinse] container (or equivalent) promptly after emptying.

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

[For Refillable Containers:]

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Container cleaning: Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Sublabel 2

**Directions for Use presented on the container label of
Gordon's Brush Killer.**

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 48 hours.

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

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

**BRUSH AND BROADLEAF WEEDS ALONG ROADSIDES, RIGHTS-OF-WAY,
DRAINAGE DITCHBANKS AND OTHER SIMILAR NONCROP AREAS:**

USE PRECAUTIONS:

Do not apply this product through any type of irrigation system. Do not apply when temperatures exceed 90°F and humidity is high.

Other Use Precautions:

- Do not use this product on or near desirable plants, including contact of spray on exposed root systems or adventitious shoots within the drip line of desirable trees and shrubs, since injury may result.

DIRECTIONS, RESTRICTIONS AND LIMITATIONS FOR USE IN NON-CROPLAND

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.

To effectively control brush, all leaves, stems and suckers must be thoroughly wetted to the ground. Apply when plants come into full leaf (spring) to the time plants begin to go dormant. Best results will be obtained when brush and weeds are young and actively growing. Do not cut brush or weeds until the herbicide has translocated throughout the plant causing root death.

Broadcast applications to annual and perennial weeds: Apply to emerged weeds. For best results, treat when weeds are young and actively growing.

The maximum application rate to general noncropland sites is 1.0 gallon of product per acre per application per site.

The maximum seasonal application rate to non crop sites is 4 pounds 2,4-D acid equivalent per acre per application site per year.

Minimum spray volume: Use 2 or more gallons of spray solution per acre. Number of applications: Limited to 2 applications per year.

Broadcast applications to woody plants: Apply to trees and brush when foliage is fully expanded and plants are actively growing.

Up to 2.0 gallons of product per acre (4.0 lb 2,4-D acid equivalent per acre) may be applied in a single application to 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.

The maximum noncropland application rate for tree, brush and woody plant control is 2.0 gallons of product per acre per application per site.

Target species	Application schedule	Maximum application rate, Gallons of product per acre	Maximum application rate, Pounds of 2,4-D acid equivalent per acre per application	Maximum number of applications per year	Minimum days between applications	Minimum spray volume, gallons per acre
Annual and perennial weeds	Broadcast	1.0 gal/A	2.0 lb/A	2	30 days	2
Woody plants	Broadcast and high volume foliar	2.0 gal/A	4.0 lb/A	1	NA	See Tables 1-2

High volume foliar applications (100 to 400 gallons per acre):

Apply 0.5 to 2.0 gallons of product per acre with adequate water or apply a 0.5 to 2.0% vol/vol spray solution as a full cover spray with high volume equipment. 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).

Spray broadleaf weeds, woody plants or mixed brush uniformly and thoroughly by wetting all leaves, stems, bark and root collars. The total volume of spray solution required for adequate coverage of solid stands of mixed brush can range from 100 to 400 gallons of spray solution per treated acre. The spray preparation chart for applications on a spray-to-wet basis is shown below in Table 1.

Table 1. Instructions for preparing 100 to 400 gallons of spray solution at 0.5 to 2.0% spray concentration with water for high volume foliar applications.

Spray solution per acre, Gallons	Amount of Product Needed for Spray Concentration of:			
	0.5%	0.67%	1.0%	2.0%
100	0.5 gal.	0.67 gal.	1.0 gal.	2.0 gal.
200	1.0 gal.	1.34 gal.	2.0 gal.	---
300	1.5 gal.	2.0 gal.	---	---
400	2.0 gal.	---	---	---

Equal measures: 1 gallon = 4 quarts = 8 pints = 128 fl.oz.

The maximum seasonal application rate for trees, brush and woody plant control is 2.0 gallons of product per acre per application per site.

For Backpack Sprayers, Knapsack Sprayers, and Hand-pressurized Pump Sprayers.

Table 2. Instructions for preparing 1 to 3 gallons of spray solution at 0.5 to 2.0% spray concentration with water for high volume foliar applications.

Gallons of Water	Amount of Product Needed for Spray Concentration of:			
	0.5%	0.67%	1.0%	2.0%
1	4 teaspoons	5 teaspoons	2.5 tablespoons	5 tablespoons
2	2.5 tablepoons	3.5 tablespoons	5 tablespoons	10 tablespoons
3	2 fl.oz.	2.5 fl.oz.	4 fl.oz.	8 fl.oz.

Equal measures: 1 fl. oz. = 2 tablespoons (Tbs.) = 6 teaspoons (tsp.)

Spray Drift Management

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

Droplet Size

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

Wind Speed

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

Temperature Inversions

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

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops

include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

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

Equipment

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

BRUSH [WOODY PLANTS]:			
Ash	Brambles	Kudzu	Shortleaf pine
Aspen	Elms	Multiflora rose	Thistle
Birch	Gooseberry	Oak	Willow
Black cherry	Honey locust		

BROADLEAF WEEDS			
annual fleabane	dogfennel	kochia	redweed
aster, white heath & white prairie	dovefoot geranium	lambquarters	red sorrel (*sheep sorrel)
bedstraw	English daisy	lawn burweed	roundleaf greenbriar
beggarticks	false dandelion (*spotted catsear & common catsear)	lespedeza, common	shepherdspurse
beggarweed, creeping	field bindweed	mallow, common	spotted spurge
bindweed	(*morningglory & creeping jenny)	matchweed	spurge
birdsfoot trefoil	field madder	mouseear chickweed	sunflower
black medic	field oxeye-daisy (*creeping oxeye)	mustard	thistle
broadleaf plantain	field pennycress	nettle	velvetleaf (*buttonweed)
buckhorn plantain	filaree, whitestem & redstem	old world diamond flower	Venice mallow
bull thistle	Florida pusley	Oxalis (*yellow woodsorrel & creeping woodsorrel)	Veronica (*corn speedwell)
burclover	ground ivy	parsley-piert	Virginia buttonweed
burdock, common	groundsel	Pennsylvania smartweed	Virginia-creeper
buttercup, creeping	hairy bittercress	pennywort (*dollarweed)	western salsify
Carolina geranium	hawkweed	pepperweed	white clover (*Dutch clover, honeysuckle clover, white trefoil & purplewort)
carpetweed	healall	pigweed	wild carrot
chickweed, common	henbit	pineappleweed	wild garlic
chicory	horsenettle	plantain	wild geranium
cinquefoil	horseweed	poison ivy	wild lettuce
clover	innocence (Blue-eyed Mary)	poison oak	wild mustard
cocklebur	jimsonweed	prostrate knotweed (*knotweed)	wild onion
compassplant		puncturevine	wild strawberry
curly dock		purple cudweed	yarrow
dandelion		purslane	yellow rocket
dayflower		ragweed	
deadnettle			
dock			
*Synonyms			

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in *Washington Toxics Coalition, et.al. v. EPA*, C01-0132C, (W.D. WA). For further information, please refer to EPA Web Site: <http://www.epa.gov/esp>.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a locked storage area. 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. 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 [or pressure rinse] container (or equivalent) promptly after emptying.

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. 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 [or pressure rinse] container (or equivalent) promptly after emptying.

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

[For Refillable Containers:]

