

1381-195

07/27/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Alice Walker Ph D
Winfield Solutions LLC
P O Box 64589
St Paul MN 55164

JUL 27 2012

Subject Label Notification Per PR Notice 98 10
E 99
EPA Reg No 1381 195
Date Submitted May 15 2012
Proposed Alternate Brand Name Shredder™ E 99

Dear Ms Walker

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98 10 dated May 15 2012 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 Jasmine Branch at (703) 347 0351 or branch.jasmine@epa.gov

Sincerely

A handwritten signature in black ink that reads "Kathryn V. Montague".

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

<h1>EPA</h1>	United States Environmental Protection Agency Washington DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide Section I

1 Company/Product Number 1381 195	2 EPA Product Manager Kathryn Montague	3 Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4 Company/Product (Name) E 99	PM# 23	
5 Name and Address of Applicant (Include ZIP Code) Winfield Solutions LLC c/o Alice Walker P O Box 64589 St Paul MN 55164 <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 <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> NOTIFICATION JUL 27 2012 </div>

Section II

<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	<input type="checkbox"/> Other explain below

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

Amendment to add the alternate brand name Shredder E 99 I believe this notification is consistent with the provisions of PR Notice 98 10 and EPA regulations at 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula of this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to EPA I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and 40 CFR 152 46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA

Section III

1 Material This Product Will Be Packaged In			
Child Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>Certification must be submitted</i>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes Unit Package Wt No Per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes Package Wt No Per Container	2 Type of Container <input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3 Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4 Size(s) of Retail Container 1 2 5 5 30 55 gallons	5 Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6 Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other (self adhesive booklet) <input 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 Alice Walker	Title Registration Specialist	Telephone No (Include Area Code) 662 562 5995
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Certification 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		6 Date Application Received (S mped)
2 Signature 	3 Title Registration Specialist	
4 Typed Name Alice Walker	5 Date May 15 2012	



3/22

May 15 2012

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U S Environmental Protection Agency
1200 Pennsylvania Ave NW
Washington DC 20460

Re ALTERNATE BRAND NAME
E 99 EPA Reg No 1381 195

This correspondence will constitute notification from Winfield Solutions LLC to add the following alternate brand name to the above referenced product registration

Primary Brand Name	Alternate Brand Name
E 99	Shredder™ E 99

To this end please find enclosed one copy of new labeling along with the corresponding application form

I believe this notification is consistent with the provisions of PR Notice 98 10 and EPA regulations at 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula of this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to EPA I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and 40 CFR 152 46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA

Thank you for adding this notification to the registration record for this product

Sincerely

Alice Walker Ph D
Registration Specialist

Enclosures

4/22

Shredder™ E-99

For selective control of many broadleaf weeds in certain crops including cereal grains (wheat barley millet oats and rye) corn (field corn popcorn and sweet corn) fallow land and crop stubble sorghum (grain and forage sorghum) and soybeans (preplant burndown application only) forests rangeland and established grass pastures including Conservation Reserve Program (CRP) acres non-cropland grasses grown for seed or sod and ornamental turf

Active Ingredients

2,4-Dichlorophenoxyacetic acid butoxyethyl ester † 87.4%

Inert Ingredients 12.6%

Total 100.0%

NOTIFICATION

JUL 27 2012

†Acid Equivalents 2,4-dichlorophenoxyacetic acid 60.1% – 6.0 lb/gal

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. Refer to the label booklet under Agricultural Use Requirements in the Directions for Use section for information about this standard.

Refer to inside of label booklet for Directions for Use

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

If you wish to obtain additional product information, visit our web site at www.winfieldsolutionsllc.com

Agricultural Chemical. Do not ship or store with food, feeds, drugs, or clothing.

EPA Reg. No. 1381-195

EPA Est. No. _____

Distributed By
Winfield Solutions LLC
P.O. Box 64589
St. Paul, MN 55164-0589

Net Contents _____ gal.

WINFIELD

AGRISOLUTIONS

1/0515/2

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin Causes moderate eye irritation Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals Avoid breathing vapors or mists Avoid contact with skin eyes or clothing

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are barrier laminate and viton \geq 14 mils If you want more options follow the instructions for category F or G on an EPA chemical resistance category selections chart

All mixers loaders applicators flaggers and other handlers must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves when applying postharvest dips or sprays to citrus applying with any handheld nozzle or equipment mixing or loading cleaning up spills or equipment or otherwise exposed to the concentrate
- Shoes plus socks
- Protective eyewear and
- Chemical resistant apron when applying postharvest dips or sprays to citrus mixing or loading cleaning up spills or equipment or otherwise exposed to the concentrate

See engineering controls for additional 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

First Aid

If swallowed Call a Poison Control Center or doctor immediately for treatment advice Have a 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 in eyes 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

Note Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment You may also contact 1 877 424 7452 for emergency medical treatment information

Engineering Controls Statements

When handlers use enclosed cabs or aircraft 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

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240 (d) (4 6)]

User Safety Recommendations

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
- 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

Environmental Hazards

This product is toxic to aquatic invertebrates and may be toxic to fish 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 washwaters or rinsate

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

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling
Read all Directions for Use carefully before applying

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application For any requirements specific to your state or tribe consult the agency responsible for pesticide regulation

Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours

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

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks
- 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

Entry Restrictions for Non WPS Uses When this product is applied to rangeland and established pastures not harvested for hay or seed non cropland areas ornamental turf not grown for sod or seed and when applied by tree injection method only in forest sites do not allow people (other than applicator) or pets on treatment area during application Do not enter or allow people (or pets) to enter the treated area until sprays have dried

Storage and Disposal

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

Pesticide Storage Keep container tightly closed when not in use. If exposed to subfreezing temperatures, the product should be warmed to at least 40°F and mixed thoroughly before using.

Pesticide Disposal Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal Use label language appropriate for container size and type.

Nonrefillable containers Do not reuse or refill this container. Clean container promptly after emptying.

Nonrefillable container equal to or less than 5 gallons 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 ¼ 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities such as burning of plastic containers. If burned, stay out of smoke.

Nonrefillable container greater than 5 gallons Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities such as burning of plastic containers. If burned, stay out of smoke.

Refillable container Refill this container with pesticide only. Do not reuse this container for any other purpose. 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 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities such as burning of plastic containers. If burned, stay out of smoke.

**FOR CHEMICAL EMERGENCY Spill leak fire exposure or accident call
CHEMTREC 1 800 424 9300**

Product Information

Shredder E 99 herbicide is intended for selective control of many broadleaf weeds in certain crops, including cereal grains (wheat, barley, millet, oats and rye), corn (field corn, popcorn and sweet corn), fallow land and crop stubble, sorghum (grain and forage sorghum) and soybeans (preplant burndown application only), forests, rangeland and established grass pastures including Conservation Reserve Program (CRP) acres, non-cropland grasses grown for seed or sod, and ornamental turf.

Apply Shredder E 99 as a water spray during warm weather when weeds or woody plants are actively growing. Application under drought conditions will often give poor results. Generally, the lower dosages recommended on this label will be satisfactory for young, succulent growth of susceptible weed species. For less susceptible species and under conditions where control is more difficult, use higher recommended rates. Deep-rooted perennial weeds such as Canada thistle and field bindweed and many woody plants usually require repeated

applications for satisfactory control. Consult your State Agricultural Experiment stations or Extension Service Weed Specialists for recommendations from this label that best fit local conditions.

Precautions and Restrictions

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

Do not apply less than 2 gallons total spray volume per acre.

Excessive residues of 2,4-D in the soil may temporarily inhibit seed germination and plant growth.

Spray Drift Management

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

Droplet Size

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

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

Wind Speed

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

Temperature Inversions

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

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use, or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, fruit trees, 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 may 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 aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Aerial Application

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights of way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

Ground Boom Application

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

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

Mixing Instructions

Shredder E 99 in water forms an emulsion that tends to separate unless the mixture is kept agitated. Fill the spray tank about half full with water, add the required amount of Shredder E 99 with agitation, and then add water to bring the mixture to the required volume. Shredder E 99 should be mixed with water prior to addition of any adjuvant such as wetting agent, additional surfactant or emulsifiable oil (crop oil concentrate).

Note Addition of an adjuvant such as a wetting agent, additional surfactant or emulsifiable oil to the spray mixture may increase effectiveness on weeds, but also may reduce selectivity in crops resulting in crop damage.

Tank Mixing When tank mixing, read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, and geographic and other restrictions. Use in accordance with the most restrictive of label limitations and precautions. No label dosages should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Mixing with Liquid Nitrogen Fertilizer

This product may be combined with liquid nitrogen fertilizer suitable for foliar application to accomplish broadleaf weed control and fertilization of corn, small grains or pastures in a single operation. Use Shredder E 99 in accordance with recommendations for these crops provided in this label. Use liquid fertilizer at rates recommended by the supplier or Extension Service Specialist. Test for mixing compatibility by mixing spray ingredients in correct proportions in a clear glass jar before mixing in spray tank. A compatibility aid such as Unite or Compex may be needed in some situations. Compatibility is best with liquid fertilizer solutions containing only nitrogen. Mixing with N-P-K solutions may not be satisfactory, even with the addition of a compatibility aid. Pre-mixing Shredder E 99 with 1 to 4 parts water may help in situations when mixing difficulty occurs.

Fill the tank about half full with the liquid fertilizer, then add the required amount of Shredder E 99 with agitation. Maintain agitation and complete filling the tank with liquid fertilizer. Apply immediately and continue agitation in spray tank during application. **Do not store the spray mixture.** Application during very cold weather (near freezing) is not advisable.

Sprayer Clean Out

To avoid injury to desirable plants, equipment used to apply this product should be thoroughly cleaned before re-use or applying other chemicals.

1. Rinse and flush application equipment thoroughly after use at least three times with water. Dispose of all rinse water by application to treatment area or apply to non-cropland area away from water supplies.
2. During the second rinse, add 1 qt of household ammonia for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15-20 min). Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Remove nozzles and screens and clean separately.

6 If equipment is to be used to apply another pesticide or agricultural chemical to a 2 4 D susceptible crop additional steps may be required to remove all traces of 2 4 D including cleaning of disassembled parts and replacement of hoses or other fittings that may contain absorbed 2 4 D

Application Instructions

Spray Volume Apply with calibrated air or ground equipment using sufficient spray volume to provide adequate coverage of target weeds or as otherwise directed in specific use directions For broadcast application apply the recommended rate of this product in a spray volume of 2 or more gallons per acre by air and 10 or more gallons per acre for ground equipment Where states have regulations that specify minimum spray volumes they should be observed In general spray volume should be increased as crop canopy height and weed density increase in order to obtain adequate spray coverage

Application Rates Generally lower rates in recommended rate ranges will be satisfactory for more sensitive weeds species when weeds are small and when environmental conditions are favorable for rapid growth Use higher rates in the recommended rate range for less sensitive species and under less favorable growing conditions For crop uses do not mix with emulsifiable oil or other adjuvants unless specifically recommended on this label Deep rooted perennial weeds such as Canada thistle and field bindweed and many woody plants usually require repeated applications for effective control

Spot Treatments

To prevent misapplication spot treatments should be applied with a calibrated boom or with hand sprayers using a fixed spray volume per 1 000 sq ft as indicated below

Hand Held Sprayers Hand held sprayers may be used for spot applications of Shredder E 99 Care should be taken to apply the spray uniformly and at a rate equivalent to a broadcast application Application rates in the table are based on the application rate for an area of 1 000 sq ft Mix the amount of Shredder E 99 (fl oz or ml) corresponding to the desired broadcast rate in 1 to 3 gallons of spray To calculate the amount of Shredder E 99 required for larger areas multiply the table value (fl oz or ml) by the thousands of sq ft to be treated An area of 1000 sq ft is approximately 10 5 X 10 5 yards (strides) in size

Rate Conversion Table for Spot Treatment

Label Broadcast Rate (pt/acre)							
1/3	1/2	2/3	1	1 1/3	2	2 2/3	5 1/3
Equivalent Amount of Shredder E 99 per 1000 sq ft							
1/8 fl oz † (3 7 ml)	1/5 fl oz (5 5 ml)	1/4 fl oz (7 4 ml)	3/8 fl oz (11 ml)	1/2 fl oz (15 ml)	3/4 fl oz (22 ml)	1 fl oz (30 ml)	2 fl oz (60 ml)

† Conversion factors 1 pt = 16 fl oz 1 fl oz = 29 6 (30) ml

Band Application Shredder E 99 may be applied as a band treatment Use the formulas below to determine the appropriate rate and volume per treated acre

Band width in inches

$$\text{Row width in inches} \times \text{Broadcast rate per acre} = \text{Band rate per treated acre}$$

Band width in inches

$$\text{Row width in inches} \times \text{Broadcast volume per acre} = \text{Band volume per treated acre}$$

Weeds Controlled

Annual or Biennial Weeds

- Beggarticks ⁽¹⁾
- Bittercress smallflowered ⁽²⁾
- mousetail ⁽²⁾
- mustards (except blue mustard)

- bitterweed
- broomweed common ⁽¹⁾
- burdock common
- buttercup smallflowered ^{(1) (2)}
- carpetweed
- cinquefoil common ⁽²⁾
- cinquefoil rough ⁽²⁾
- cocklebur common
- coffeeweed
- copperleaf Virginia ⁽²⁾
- croton Texas
- croton woolly
- flixweed
- galinsoga
- geranium Carolina ⁽²⁾
- hemp wild
- horseweed (maretail) ⁽²⁾
- jewelweed
- jimsonweed
- knotweed ⁽¹⁾
- kochia
- lambsquarters common
- lettuce prickly ^{(1) (2)}
- lettuce wild
- lupines
- mallow little ⁽¹⁾
- mallow Venice ⁽¹⁾
- marshelder
- morningglory annual
- morningglory ivy
- morningglory woolly
- parsnip wild
- pennycress (fanweed)
- pepperweeds (*Lepidium* spp) ^{(1) (2)}
- pigweeds (*Amaranthus* spp) ⁽¹⁾
- poorjoe
- primrose common
- purslane common ⁽²⁾
- pusley Florida
- radish wild
- ragweed common
- ragweed giant
- rape wild
- rocket yellow
- salsify common ⁽¹⁾
- salsify western ⁽¹⁾
- shepherdspurse
- sicklepod
- smartweed (annual species) ^{(1) (2)}
- sneezeweed bitter
- sowthistle annual
- sowthistle spiny
- spanishneedles
- sunflower
- sweetclover
- tansymustard
- thistle bull
- thistle musk ⁽¹⁾
- thistle Russian (tumbleweed) ⁽¹⁾
- velvetleaf
- vetches

Perennial Weeds

- Alfalfa ^{(1) (2)}
- artichoke Jerusalem ⁽¹⁾
- aster many flower ⁽¹⁾
- Austrian fieldcress ⁽¹⁾
- bindweed (hedge field and European) ^{(1) (2)}
- blue lettuce
- blueweed Texas
- broomweed
- bullnettle ^{(1) (2)}
- carrot wild ⁽¹⁾
- catnip
- chicory
- clover red ^{(1) (2)}
- coffeeweed
- cress hoary ⁽¹⁾
- dandelion ⁽¹⁾
- docks ⁽¹⁾
- dogbanes ⁽¹⁾
- goldenrod
- eveningprimrose cutleaf ⁽²⁾
- garlic wild ⁽¹⁾
- hawkweed orange ⁽¹⁾
- healal
- ironweed western ⁽²⁾
- ivy ground ⁽¹⁾
- Jerusalem artichoke
- loco bigbend
- nettles (including stinging) ⁽¹⁾
- onion wild ⁽¹⁾
- pennywort
- plantains
- ragwort tansy ⁽¹⁾
- sowthistle perennial
- thistle Canada ^{(1) (2)}
- vervains ⁽¹⁾
- waterplantain
- wormwood

⁽¹⁾ These difficult to control weeds are only partially controlled and may required repeat applications and/or use of higher recommended rates of this product even under ideal conditions of application

(2) Control of this weed species is not applicable to use in the state of California

Crop Uses

Agricultural Use Requirements for Crops For the following crop uses follow PPE and Re entry instructions in the Agricultural Use Requirements section of this label

Cereal Grains (Wheat, Barley, Millet, Oats, and Rye) (Not Underseeded with Legumes)

Crop/Application Timing	Shredder E 99 (pt/acre)	Specific Use Directions
Wheat Barley Millet Rye Annual and biennial broadleaf weeds Perennial broadleaf weeds	1/3 to 1 1/3 † 2/3 to 1 1/3 †	Apply after crop is fully tillered (usually 4 to 8 inches tall) but not forming joints in the stem and weeds are small Do not apply before tillering or from early boot through the milk stage of growth
Oats (Spring Seeded) (Fall Seeded Southern)	1/3 1/2 to 3/4 †	Apply after crop is fully tillered (usually 4 to 8 inches tall) but not forming joints in the stem and weeds are small Do not apply before tillering or from early boot through the milk stage of growth Do not apply during or immediately following cold weather
Preharvest application (all cereals)	2/3	Apply using air or ground equipment to control weeds that could interfere with harvest or to suppress perennial weeds Apply when grain is in dough stage Do not apply from early boot through the milk stage of growth

† Use the lower rate in the rate range if small annual or biennial weeds are the major problem Up to 1 1/3 pt/acre may be applied postemergence to wheat barley rye and millet However there is greater risk of crop injury at rates greater than 2/3 pt/acre and such rates should be used only when the need for weed control justifies additional risk to the crop Do not apply this product at the crop seedling stage of growth Consult state agricultural experiment station or extension service weed specialists for recommendations or suggestions to fit local conditions

Restrictions

- **Preharvest Interval** Do not harvest within 14 days of application
- Do not make more than one post emergence application and one pre harvest application per crop season
- Do not apply more than 2 1/3 pt/acre of Shredder E 99 (1 75 lb of acid equivalent) per use season

Corn (Field Corn Popcorn and Sweet Corn)

Application Timing/ Stage of Growth	Shredder E 99 (pt/acre)	Specific Use Directions
Preplant (Burndown) Preemergence (Field corn popcorn and sweet corn)	2/3 to 1 1/3	General For best results growth conditions should be favorable for active weed growth Use high rate in rate range for less susceptible weeds cover crops such as alfalfa weeds in advanced stages of development or under less favorable growth conditions Preplant Apply 7 to 14 days before planting corn to control emerged broadleaf weed seedlings or existing cover crops Preemergence Apply any time after planting but before corn emerges to control broadleaf weed seedlings or existing cover crops Do not use on light sandy soils
Postemergence (Field corn popcorn and sweet corn) Annual broadleaf weeds Crop up to 8 inches tall Crop 8 inches tall to tasseling (directed spray only) Perennial broadleaf weeds	1/3 to 2/3 2/3 2/3	Apply when weeds are small and corn is less than 8 inches tall (to top of canopy) If corn is more than 8 inches tall use drop nozzles to keep spray off foliage Treat perennial weeds when they are in bud to bloom stage Do not apply from tasseling to hard dough stage Note Corn treated with 2 4 D may become temporarily brittle Wind or cultivation may cause stem breakage during the period of time that corn is brittle Sweet Corn To minimize potential for crop injury use only lowest rate in rate range
Preharvest (Field corn and popcorn only)	up to 2	Apply after corn is in hard dough (or denting) stage Do not make preharvest applications to sweet corn

Precautions

Do not make preplant or preemergence applications to light sandy soils
 Corn hybrids vary in tolerance to 2 4 D Some are easily injured Apply only to varieties known to be tolerant to 2 4 D Consult the seed company or your Agricultural Experiment Station or Extension Service Weed Specialist for this information

Note Corn treated with 2 4 D may exhibit stem brittleness for 8 – 10 days following application During this period the crop is more susceptible to stem breakage from cultivation or wind

Restrictions (Field Corn and Popcorn)

Preharvest interval Do not harvest for grain or use treated crop as fodder within 7 days after application
 Do not make more than one preplant or preemergence application more than one postemergence application and more than one preharvest application per use season
 Do not apply more than 4 0 pt/acre of Shredder E 99 (3 0 lb of acid equivalent) per use season

Restrictions (Sweet Corn)

Preharvest interval Do not harvest within 45 days after application or permit meat or dairy animals to forage or graze treated area within 7 days after application
 Do not make more than one preplant or preemergence application and one postemergence application per use season
 A minimum of 21 days between applications is required
 Do not apply more than 2 0 pt/acre of Shredder E 99 (1 5 lb of acid equivalent) per use season

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Fallowland and Crop Stubble

Fallowland is considered to be idle land postharvest to crops or between crops

Type of Weeds	Shredder E 99 (pt/acre)	Specific Use Directions
Annual broadleaf weeds	2/3 to 1 1/3	Use a lower rate in the rate range when weeds are small (2 to 3 inches tall) and actively growing Use a higher in the rate range when weeds are larger and/or growing conditions are less favorable
Biennial broadleaf weeds	1 1/3 to 2 2/3	Apply when musk thistles or other biennial species are in the seedling to rosette stage and before development of flower stalks Use lower rates in the spring during the rosette stage and the highest rate in the fall or when flower stalks have developed
Perennial broadleaf weeds	1 1/3 to 2 2/3	Apply when perennial weeds are in bud or bloom stage and actively growing Do not disturb treated areas for at least 2 weeks after application or until top growth is dead
Wild garlic and onion in crop stubble	2 2/3	Apply to new regrowth of wild garlic or onion that occurs in the fall after harvest of other crops

Precaution For best weed control results do not cultivate for at least two weeks after application or until top growth is dead

Precautions and Restrictions

- Preharvest interval** Do not cut forage for hay within 7 days of application
- Do not re apply within 30 days of a previous application
- Do not make more than 2 applications per season
- Do not apply more than 5 1/3 pt/acre of Shredder E 99 (2 0 lb of acid equivalent) per use season

Planting in Treated Areas

Crops on this Label and Labels of other 2 4 D Products Within 29 days after an application of this product plant only those crops listed on this or other registered 2 4 D labels Follow more specific limitations if any provided in directions for specific crops Labeled crops may be at risk of crop injury or loss if planted soon after application especially during the first 14 days Degradation factors described below should be considered in weighing this risk

All Other Crops Those not listed on any 2 4 D product label may be planted 30 or more days after application without concern for illegal residues in the planted crop However under certain conditions there may be a risk of injury to these crops Degradation factors described below should be considered in weighing this risk Under average conditions any crop may be planted without risk of injury if at least 90 days of soil temperatures above freezing have elapsed since application

Degradation Factors When planting into treated areas the risk of crop injury is less if lower rates of product were applied and conditions following application have included warm moist soil conditions that favor rapid breakdown of 2 4 D Risk is greater if higher rates of product were applied and soil temperatures have been cold and/or soils have been excessively wet or dry in the days following application Consult your local agricultural extension service for information about susceptible crops and risk of crop injury prior to planting into treated fields in your area

Precautions for Planting Cotton Following application of Shredder E 99 and following a minimum of 1 rainfall or irrigation in a 24 hr period wait an interval of 30 days prior to planting cotton Failure to observe these precautions may result in crop injury

Sorghum (Grain Sorghum (Milo) and Forage Sorghum)

Application Timing/ Stage of Growth	Shredder E-99 (pt/acre)	Specific Use Directions
Postemergence † Crop 6 - 8 inches tall Crop 8 - 15 inches tall (directed spray only)	1/3 to 2/3 † 1/2 to 2/3	Apply when sorghum is 6 to 15 inches tall. If sorghum plants are more than 8 inches tall (top of canopy), use drop nozzles and apply as a directed spray to minimize exposure of sorghum plants. Do not use with oil or other adjuvants. Do not treat during boot, flowering or dough stage.

† Temporary crop injury can be expected under conditions of high soil moisture and high air temperatures. If it is necessary to apply this product under these conditions, use no more than 1/2 pint per acre.

Precautions and Restrictions:

- Sorghum hybrids vary in tolerance to 2,4-D. To avoid potential crop injury, use this product only on varieties known to be tolerant to 2,4-D. Consult your seed company representative, agricultural experiment station or extension service weed specialist for information regarding tolerant hybrids.
- Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days after application.
- **Preharvest interval:** Do not harvest grain for 30 days following application.
- Do not make more than one application per use season.
- Do not apply more than 2/3 pt/acre of Shredder E-99 (0.5 lb of acid equivalent) per use season.

Soybeans (Preplant Burndown Application Only)
(Not for Use in California)

Application Timing	Shredder E-99 (pt/acre)	Specific Use Directions
Preplant (Burndown)	1/2 to 2/3	Apply not less than 7 days before planting soybeans. See Use Precautions and Restrictions below.
	2/3 to 1 1/3	Apply not less than 15 days before planting soybeans. See Use Precautions and Restrictions below.

Directions: Use Shredder E-99 to control emerged broadleaf weeds or existing cover crops. For best results, apply when weeds are small and actively growing. Use the higher rate in the respective rate range for larger weeds and when perennials are present. Compatible crop oil concentrates, agricultural surfactants and fluid fertilizers approved for use on growing crops may be added to spray mixtures to increase the herbicidal effectiveness on certain weeds. Read and follow all directions and precautions on this label and on the label of each product added to the spray mixture.

Use Precautions, Restrictions and Limitations:

- **Important Notice:** Unacceptable injury to soybeans planted in treated fields may occur. Whether or not soybean injury occurs and the extent of such injury will depend on weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors such as the amount of weed vegetation and previous crop residue present at the time of application. Injury is more likely under cool rainy conditions and where there is less weed vegetation and crop residue present.
- Do not disturb treated soil through tillage between application and planting of soybeans.
- Do not use on sandy soils with less than 1.0% organic matter.
- In treated fields, plant soybean seed as deep as practical, but not less than 1.0 inch deep. Adjust the planter, if necessary, to ensure that planted seed is adequately covered.
- Do not make more than one application per season regardless of the application rate used.
- **Do not apply Shredder E-99 as a preplant application in soybeans unless you are prepared to accept the results of soybean injury, including possible stand loss and/or yield reduction.**

During the growing season following application do not replant treated fields with crops other than those labeled for use with Shredder E 99
Do not apply more than 1 1/3 pt/acre of Shredder E 99 (1 0 lb of acid equivalent) per use season

**Forestry, Rangeland, Established Pasture,
and Non cropland Uses**

Agricultural Use Requirements for Forest Use (Except Tree Injection Use) For use in forests follow PPE and Reentry instructions in the Agricultural Use Requirements section under the Directions for Use heading of this label

Agricultural Use Requirements for Rangeland Pasture Forest (Tree Injection Only) and Non cropland Areas When this product is applied to rangeland and established pastures not harvested for hay or seed non cropland areas and when applied by tree injection in forest sites follow reentry requirements given in the Non Agricultural Use Requirements section under the Directions for Use heading of this label

Forestry Uses

Forest site preparation forest roadsides brush control established conifer release including Christmas trees and reforestation areas

Treatment Site Method of Application	Shredder E 99 Use Rates	Specific Use Directions
Annual Weeds Biennial and perennial broadleaf weeds and susceptible woody plants	1 1/3 to 2 2/3 pt/acre 2 2/3 to 5 1/3 pt/acre	Apply when weeds are small and growing actively before the bud stage Apply when biennial and perennial species are in the seedling to rosette stage and before flower stalks appear For difficult to control perennial broadleaf weeds and woody species use up to 2 2/3 qt of Shredder E 99 and 1 to 4 qt of Garlon 3A herbicide per acre For conifer release make application in early spring before budbreak of conifers when weeds are small and actively growing
Spot Treatment to control broadleaf weeds	See Instructions for Spot Treatment	Note To control broadleaf weeds in small areas with a hand sprayer use an application rate equivalent to the recommended broadcast rate and spray to thoroughly wet all foliage See rate conversion table and instructions for Spot Treatment and use of hand held sprayers under Application
Conifer Release Species such as white pine ponderosa pine jack pine red pine black spruce white spruce red spruce and balsam fir	1 to 2 qt/acre	To control competing hardwood species such as alder aspen birch hazel and willow apply from mid to late summer when growth of conifer trees has hardened off and woody plants are still actively growing Apply with ground or air equipment using sufficient spray volume to ensure complete coverage Because this treatment may cause occasional conifer injury do not apply if such injury cannot be tolerated

Directed Spray Conifer plantations including pine	2 2/3 qt/100 gal	Apply when brush or weeds are actively growing by directing the spray so as to avoid contact with conifer foliage and injurious amounts of spray Apply in water carrier in a spray volume of 10 to 100 gallons per acre
Surface of Cut Stumps	Or 1 2/3 fl oz/gal of water	Apply as soon as possible after cutting trees Thoroughly soak the entire stump with the 2 4 D mixture including cut surface bark and exposed roots
Frill and Girdle		Cut frills (overlapping V shaped notches cut downward through the bark in a continuous ring around the base of the tree) using an axe or other suitable tool Saturate the freshly cut frills with the 2 4 D mixture
Tree Injection Application	(1 to 1 1/3 ml per injection site)	To control and prevent resprouting of unwanted hardwood trees such as elm hickory oak and sweetgum in forests and other non crop areas apply by injecting at a rate of 1 ml of undiluted Shredder E 99 per inch of trunk diameter as measured at breast height (DBH) approximately 4 1/2 ft above the ground Injection sites however should be as close to the root collar as possible and the injection bit must penetrate the inner bark Applications may be made throughout the year but for best results apply between May 15 and October 15 Maples should not be treated during the spring sap flow For hard to control species such as ash maple and dogwood use 2 ml of undiluted Shredder E 99 per injection site or double the number of 1 ml injections Note No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is directly injected into agricultural plants

Precautions and Restrictions

Do not allow directed sprays to contact conifer shoot growth (current year s new growth) or injury may occur
 Do not apply to nursery seedbeds
 For conifer release do not use on plantations where larch is among the desired species
 For broadcast applications do not apply more than 5 1/3 pt/acre of Shredder E 99 (4 0 lb of acid equivalent) per 12 month period
 Limited to one broadcast application one basal spray/cut surface application and one injection application per year

Rangeland, Established Grass Pastures (Including Perennial Grasslands Not In Agricultural Production Such As Conservation Reserve Program Acres)

Target Weeds or Woody Plants	Shredder E 99 Use Rates	Specific Use Directions
Annual broadleaf weeds	1 1/3 pt/acre	For best results apply when weeds are small and growing actively before the bud stage Apply when musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks appear Refer to the Weeds Controlled section for a listing of susceptible weed species and weeds that may be only partially controlled and require repeat applications and/or use of higher
Biennial and perennial broadleaf weeds	1 1/3 to 2 2/3 pt/acre	

		recommended rates even under ideal conditions of application
Spot Treatment to control broadleaf weeds	0.85 fl oz / gal of spray solution (See Instructions for Spot Treatment)	Note To control broadleaf weeds in small areas with a hand sprayer use an application rate equivalent to the broadcast rate recommended for this treatment site and spray to thoroughly wet all foliage Mix 0.85 fl oz per gal of spray solution and apply through pump up sprayer or backpack sprayer Addition of a non ionic surfactant is recommended to improve coverage See rate conversion table and instructions for Spot Treatment and use of hand held sprayers under Application
Cut Stump Frill and Girdle and Tree Injection Application Methods	See instructions for these application methods in Forestry Uses section of this label	
Wild garlic and wild onion	2 2/3 pt/acre	Make three applications (fall spring fall or spring fall spring) starting in late fall or early spring
Broadleaf weed control in newly sprigged coastal bermudagrass	1 1/3 to 2 2/3 pt/acre	Applications may be made either preemergence or postemergence Follow Specific Use Directions for annual biennial and perennial broadleaf weed control above
Southern wild rose Broadcast application Spot treatment	Up to 2 2/3 pt/acre 0.85 fl oz / gal of spray solution	Broadcast Apply in a spray volume of 5 or more gallons per acre by aircraft or 10 or more gallons per acre by ground equipment Spot treatment Apply when foliage is well developed Thorough coverage is required Mix 0.85 fl oz per gal of spray solution and apply through pump up sprayer or backpack sprayer Addition of a non ionic surfactant is recommended to improve coverage Two or more treatments may be required Do not exceed 2 2/3 pt per acre per application
CRP Acres	For program lands such as CRP consult program rules to determine whether grass or hay may be used The more restrictive requirements of the program rules or this label must be followed	

Precautions and Restrictions

- Do not use on bentgrass alfalfa clover or other legumes
- Do not use on newly seeded areas until grass is well established
- Do not use from early boot to milk stage where grass seed production is desired
- Do not reapply within 30 days of a previous application
- Do not make more than two applications per season
- Do not apply more than 5 1/3 pt/acre of Shredder E 99 (4.0 lb of acid equivalent) per use season
- **Preharvest interval** Do not cut forage for hay within 7 days of application For program lands such as CRP consult program rules to determine whether grass or hay may be used The more restrictive requirements of the program rules or this label must be followed
- **For spot treatment** Do not exceed 2 2/3 pints product/acre per application If grass is to be cut for hay Agricultural Use Requirements for the Worker Protection Standard are applicable

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Non cropland Areas

Such as fencerows hedgerows roadsides drainage ditches rights of way utility power lines railroads and airports

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

Treatment Site Method of Application	Shredder E 99 Use Rates (pt/acre)	Specific Use Directions
Annual broadleaf weeds Biennial and perennial broadleaf weeds Susceptible woody plants	1 1/3 to 2 2/3 2 2/3 2 2/3 to 5 1/3	Apply when annual weeds are small and growing actively before the bud stage Biennial and perennial weeds should be rosette to bud stage but not flowering at the time of application For difficult to control perennial broadleaf weeds and woody species tank mix up to 2 2/3 qt of Shredder E 99 plus 1 to 4 qt of Garlon 3A herbicide per acre For ground application (High volume) apply a total spray volume of 100 to 400 gallons per acre (low volume) apply a total spray volume of 10 to 100 gallons per acre For helicopter Apply a total spray volume of 5 to 30 gallons per acre
Spot Treatment to control broadleaf weeds	0.85 fl oz / gal of spray solution (See Instructions for Spot Treatment)	Note To control broadleaf weeds in small areas with a hand sprayer use an application rate equivalent to the broadcast rate recommended for this treatment site and spray to thoroughly wet all foliage Mix 0.85 fl oz per gal of spray solution and apply through pump up sprayer or backpack sprayer Addition of a non ionic surfactant is recommended to improve coverage See rate conversion table and instructions for Spot Treatment and use of hand held sprayers under Application
Tree Injection Application	See instructions for tree injection application in Forestry Uses section	
Southern wild rose Broadcast application Spot treatment	up to 2 2/3 0.85 fl oz / gal of spray solution	Broadcast Apply in a spray volume of 5 or more gallons per acre by aircraft or 10 or more gallons per acre by ground equipment Spot treatment Apply when foliage is well developed Thorough coverage is required Mix 0.85 fl oz per gal of spray solution and apply through pump up sprayer or backpack sprayer Addition of a non ionic surfactant is recommended to improve coverage Two or more treatments may be required

Precautions and Restrictions

- Do not apply to newly seeded areas until grass is well established
- Bentgrass St Augustine clover legumes and dichondra may be severely injured or killed by this treatment
- Do not reapply to a treated area within 30 days of a previous application
- Do not apply more than 5 1/3 pt/acre of Shredder E 99 (4.0 lb of acid equivalent) per use season
- **Postemergence (annual and perennial weeds)** Do not make more than 2 applications per year
- **Postemergence (woody plants)** Do not make more than 1 application per year

Turf Uses

Grasses Grown for Seed or Sod Farms

Agricultural Use Requirements When used in grass grown for seed or sod farms follow PPE and reentry instructions in the Agricultural Use Requirements section of this label

Treatment Site (Application Timing)	Shredder E 99 (pt/acre)	Specific Use Directions
Grasses Grown for Seed (Postemergence Use) Seedling grass (five leaf stage or later) Well established grasses	1/2 to 2/3 2/3 to 2 2/3	Apply when weeds are small and actively growing For best results apply when soil moisture is adequate for active weed growth Do not apply to newly seeded grasses until well established (five leaf stage or later) and then use a maximum of 2/3 pt/acre Cool season grasses are tolerant of higher rates Do not apply to grass in the early boot through milk stage if seed production is desired When grass is well established higher rates of up to 2 2/3 pints/acre may be applied for control of hard to kill annual or perennial weeds
Sod Farms (Postemergence)	1 1/3 to 2 2/3	Deep rooted perennials such as bindweed and Canada thistle may require repeat applications Avoid mowing sod farms for 1 to 2 days before or after application Delay irrigation until the day following application

Precautions and Restrictions

- Do not use on creeping grasses such as bentgrass except as a spot treatment
- Do not use on injury sensitive southern grasses such as St Augustinegrass
- Do not use on dichondra or other herbaceous ground covers legumes may be damaged or killed
- Do not reapply to a treated area within 21 days of a previous application
- **Reseeding** Delay reseeding at least 30 days following application Preferably with spring application reseed in the fall and with fall application reseed in the spring
- **Preharvest interval** Do not cut forage for hay within 7 days of application
- Do not make more than two applications of Shredder E 99 per year
- Do not apply more than 5 1/3 pt/acre of Shredder E 99 (4 0 lb of acid equivalent) per use season

Ornamental Turf (Excluding Grasses Grown For Seed or Sod Farms)

(Includes lawns golf courses cemeteries and parks airfields roadsides vacant lots drainage ditch banks)

Use Requirements for Ornamental Turf Areas When this product is applied to ornamental turf areas follow PPE and reentry instructions in the Non agricultural Use Requirements section of this label

Treatment Site (Application Timing)	Shredder E 99 (pt/acre)	Specific Use Directions
Ornamental Turf (Postemergence) Seedling grass (five leaf stage or later)	1/2 to 2/3	Apply when weeds are small and actively growing For best results apply when soil moisture is adequate for active weed growth
Well established grasses	1 1/3 to 2	Deep rooted perennial weeds such as bindweed and Canada thistle may require repeat applications
Biennial and perennial broadleaf weeds	2	Do not apply to newly seeded grasses until well established (five leaf stage or later) and then use a maximum of 2/3 pt/acre Cool season grasses are tolerant of higher rates

Precautions Restrictions

- Do not use on creeping grasses such as bentgrass except as a spot treatment
- Do not use on injury sensitive southern grasses such as St Augustinegrass
- Do not use on dichondra or other herbaceous ground covers Legumes may be damaged or killed
- Do not reapply within 21 days of a previous application
- **Reseeding** Delay reseeding at least 30 days following application Preferably with spring application reseed in the fall and with fall application reseed in the spring
- Do not apply more than 2 broadcast applications or apply more than 4 pt/acre per year per treatment site (does not include spot treatments)
- Do not apply more than 2 pt/acre of Shredder E 99 (1.5 lb acid equivalent) per application

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 EP C01 0132C (W D WA) For further information please refer to <http://www.epa.gov/espp/wtc/>

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