

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D C 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

JUL -5 2012

Michael Kellogg Willowood LLC

1600 NW Garden Valley Blvd , Suite 120

Roseburg, Oregon 97471

Subject Amendment adding Directions for Use/Use Sites

Product name Clethodim 2EC

EPA Reg No 87290-11

Application Dated April 12, 2012

Dear Mr Kellogg

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

A stamped copy of the label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after eighteen (18) months from the date of this letter must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions, please contact Grant Rowland at 703-347-0254 or at Rowland Grant@epa gov

Sincerely

Kathryn Montague Product Manager 23

Herbicide Branch

Registration Division (7505P)

Willowood Clethodim 2EC

ACTIVE INGREDIENT
*Clethodim
OTHER INGREDIENTS
TOTAL

By Wt 26 4% 73 6% 100 0%

Contains Petroleum Distillates

*(E)-2-[1[((3-chloro-2-propenyl)-oxy)|m|no]propyl] 5-[2 (ethylthio)propyl]-3-hydroxy-2 cyclohexen 1-one

Contains 2 0 lbs clethodim per gallon

KEEP OUT OF REACH OF CHILDREN WARNING -- AVISO

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

	FIRST AID
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
lf on skin or	Take off contaminated clothing
clothing	Rinse skin immediately with plenty of water for 15 20 minutes
	Call a poison control center or doctor for treatment advice
If swallowed	Immediately call a poison control center or doctor
	Do not induce vomiting unless told to do so by a poison control center or doctor
	Do not give any liquid to the person
	Do not give anything by mouth to an unconscious person
If inhaled	Move person to fresh air
	If person is not breathing call 911 or an ambulance, then give artificial respiration.
	preferably by mouth-to-mouth if possible
	Call a poison control center or doctor for further treatment advice
	HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product call the National Pesticides Information Center (NPIC) at 1-800 858-7378 seven days a week 6 30 am to 4 30 pm Pacific Time or your poison control center at 1-800-222-1222

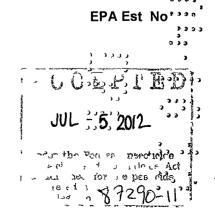
NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis. If ingested probable mucosal damage may contraindicate the use of gastric lavage.

EPA Reg No 87290-11

Manufactured for Willowood LLC 1600 NW Garden Valley Blvd #120 Roseburg OR 97471

Net Contents



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Causes substantial but temporary eye irritation. Avoid contact with skin. Do not get in eyes on skin or on clothing. Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options follow the instructions for category G on an EPA chemical resistance category selection chart

Applicators and other handlers must wear long sleeved shirt and long pants chemical resistant gloves such as Barrier Laminate or Viton ≥ 14 mils shoes plus socks and protective eyewear

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

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- 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

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist.

Solano Grass Solano County California the vernal lakes are bounded by the Union Pacific

Railroad and Hastings Road to the north Highway 113 to the east Highway 12

to the south and Travis Air Force Base to the west

Wild Rice Hays County Texas

PHYSICAL OR CHEMICAL HAZARDS

Combustible Do not use or store near heat or open flame

DIRECTIONS FOR USE

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

READ THE ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

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 24 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is coveralls chemical resistant gloves such as Barrier Laminate or Viton ≥ 14 mils shoes plus socks and protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift. Do not enter treated areas without protective clothing until sprays have dried

TANK MIXES

NOTICE Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor

Read and follow the entire label of each product to be used in the tank with this product

THE FOLLOWING STATEMENT ON CHEMIGATION WILL BE USED ONLY IF A SUPPLEMENTAL LABEL IS CREATED

CHEMIGATION

[Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed. Refer to supplemental labeling entitled. Application of Willowood Clethodim 2EC Onions (dry bulbs and green) and Garlic by Chemigation. for use directions for chemigation.]

May be applied to onions and garlic by sprinkler irrigation systems. Do not apply by chemigation to any other crop or to this crop using any other type of irrigation system.

PRODUCT INFORMATION

FOR USE ON Alfalfa Artichoke (Globe) Asparagus Bean and Pea (dry shelled)¹ Bean and Pea (succulent)² Broccoli Bushberry³ Cabbage Caneberry⁴ Canola* Carrot Cauliflower (and other Head and Stem Brassica Vegetables)⁵ Celery Clover (grown in Idaho Oregon and Washington only) Conifers Cotton Cranberry Cucumber Eggplant (and other Fruiting Vegetables)⁶ Fallow Land (and other non-producing agricultural areas) Flax* Field Corn⁷ Garden Beet Garlic Herbs⁸ Hops Horseradish (and other Root Vegetables)⁹ Legume Vegetables (edible podded)¹⁰ Lettuce Head and Leaf (and other leafy greens)¹¹ Melons (including Cantaloupes and Watermelons)¹² Mint Mustard Greens (and other leafy brassica greens)¹³ Mustard Seed* Non-Bearing Food Crops Non Crop or Non-

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Planted Areas Onions (dry bulb and green) Ornamentals Peaches Peanut (including perennial)
Peppers (bell and non-bell) Potato Radish Rhubarb (and other Leaf Petioles)¹⁴ Safflower Sesame
Shallots (dry bulbs and green) Soybeans Squash (including Pumpkins) Strawberry Sugar Beet
Sunflower Sweet Potato Tomato Turnip Greens Yam (and other Tuberous and Corm Vegetables)¹⁵
*Not for use in California

Other Dry Shelled Bean and Pea crops approved for use with Willowood Clethodim 2EC include Bean (*Lupinus* spp.) grain sweet white and white sweet Bean (*Phaseolus* spp.) field kidney lima (dry) navy pinto and tepary Bean (*Vigna* spp.) adzuki bean black-eyed pea catjang cowpea crowder pea moth bean mung bean rice bean Southern pea urd bean broad (dry) chickpea (garbanzo) guar lablab bean and lentil Pea (*Pisum* spp.) field and pigeon

Other Succulent Bean and Pea crops approved for use with Willowood Clethodim 2EC includes Bean (*Lupinus* spp) grain sweet white and white sweet Bean (*Phaseolus* spp) field kidney lima (dry) navy pinto and tepary Bean (*Vigna* spp) adzuki bean black eyed pea catjang cowpea crowder pea moth bean mung bean rice bean Southern pea urd bean broad (dry) chickpea (garbanzo)

guar lablab bean and lentil Pea (Pisum spp) field and pigeon

Other bushberry crops approved for use with Willowood Clethodim 2EC include Aronia Berry Blueberry (highbush) Black Currant Buffalo Currant Chilean Guava Cranberry (highbush) Elderberrry European Barberry Gooseberrry Honeysuckle (edible) Huckleberry (edible) Jostaberry Juneberry (Saskatoon berry) Native Currant Salal Sea Buckthorn Red Currant cultivars varieties and/or hybrids of these

Other caneberry crops approved for use with Willowood Clethodim 2EC include Blackberry Loganberry Raspberry (black and red) Wild Raspberry cultivars varieties and/or hybrids of these

Other head and stem brassica vegetables approved for use with Willowood Clethodim 2EC include Chinese broccoli Brussels sprouts Chinese (napa) cabbage Chinese mustard cavalo broccoli and kohlrabi

Other Fruiting Vegetables (except tomato) approved for use with Willowood Clethodim 2EC include eggplant groundcherry pepino peppers (all) and tomatillo

For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn

prior to replanting field corn

Other Herb crops approved for use with Willowood Clethodim 2EC include angelica balm basil borage burnet chamomile catnip chervil (dried) chive Chinese chive clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dill (dillweed) horehound hyssop lavender lovage (leaf) marigold marjoram (*origanum* spp) nasturtium parsley (dried) pennyroyal rosemary rue sage and savory summer and winter

Other root vegetables approved for use with Willowood Clethodim 2EC include burdock edible celeriac chervil turnip rooted chicory ginseng parsley turnip-rooted parsnip radish oriental

rutabaga salsify black salsify Spanish skirret and turnip

Other Edible Podded Legume Vegetable crops approved for use with Willowood Clethodim 2EC include Bean (*Phaseoulus* spp.) runner snap and wax Bean (*Vigna* spp.) asparagus Chinese longbean moth yardlong jackbean Pea (*Pisum* spp.) dwarf edible-pod snow sugar snap pigeon and sword bean

Other Leafy Greens crops approved for use with Willowood Clethodim 2EC include amaranth (Chinese spinach leafy amaranth and tampala) arugula (roquette) chervil chrysanthemum (edible-leaved and garland) corn salad cress (garden yellow rock and winter) dandelion dock (sorrel) endive (escarole) lettuce (head and leaf) orach parsley purslane (garden and winter) radicchio (red chicory) spinach (New Zealand and Vine (Indian and Malabar))

Other cucurbit crops approved for use with Willowood Clethodim 2EC include Chayote (fruit)
Chinese Wax Gourd Citron Melon Edible Gourd Gherkin and Muskmelons (all) including Honeydew

Melon

Other leafy brassica greens approved for use with Willowood Clethodim 2EC include broccoli raab Chinese (bok choy) cabbage collards kale mizuna mustard greens mustard spinach and rape greens

Other leaf petiole crops approved for use with Willowood Clethodim 2EC include cardoon celtuce

Chinese celery Florence fennel and Swiss chard

Other tuber and corm vegetables approved for use with Willowood Clethodim 2EC include arracacha arrowroot. Chinese artichoke. Jerusalem artichoke, edible burdock, edible canna, bitter and sweet.

cassava chayote (root) chufa dasheen (taro) ginger leren tanier turmeric and bean yam

Willowood Clethodim 2EC is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided

Willowood Clethodim 2EC is a selective postemergence herbicide for control of annual and perennial grasses. Willowood Clethodim 2EC does not control sedges or broadleaf weeds.

Repeated use of Willowood Clethodim 2EC (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species

If poor performance occurs and cannot be attributed to adverse weather or application conditions a resistant biotype may be present. This is most likely to occur in fields where other control strategies such as crop rotation, mechanical removal, and other classes of herbicides are not used from year to year.

Do not allow Willowood Clethodim 2EC to come in contact with desirable grass crops such as corn-rice sorghum small grains or turf as these and other grass crops will be injured or killed. Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.

Control Symptoms

Treated grass weeds show a reduction in vigor and growth Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7 to 14 days after application, depending on grass species treated and environmental conditions.

APPLICATION INFORMATION

Timing of Applications

Apply Willowood Clethodim 2EC postemergence to actively growing grasses according to rate table instructions. Applications made to grass plants stressed by insufficient moisture, or hot or cold temperatures, or to grass plants exceeding listed growth stages may result in unsatisfactory control. Do not apply under these conditions

In arid regions where irrigation is used to supplement limited rainfall. Willowood Clethodim 2EC should be applied as soon as possible after irrigation (within 7 days). In arid regions, a second application of Willowood Clethodim 2EC will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of Willowood Clethodim 2EC may reduce weed control DO NOT APPLY Willowood Clethodim 2EC if rainfall is expected within one hour since control may be reduced

ADDITION OF ADJUVANT OR CROP OIL CONCENTRATE

CROP	ADJUVANT USE INSTRUCTIONS
	Always use a crop oil concentrate* at 1 0 qt /A by ground or 1% v/v (but not less than 1 pt /A) in the finished spray volume by air
Alfalfa Cotton Dry Shelled Bean & Pea Edible Podded Legume Vegetable Peanuts (including perennial) Potato Soybean Succulent Bean & Pea Sugar Beet and Sunflower	1 to 2 qts /A of liquid fertilizer (10 34-0 28%N or 32%N) or an equivalent amount (2 5 to 4 0 lbs /A) of spray grade ammonium sulfate (AMS) may be added to Willowood Clethodim 2EC applications in addition to the recommended rate of crop oil concentrate. The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome. Johnsongrass red rice wild oats volunteer cereals and volunteer corn.

Artichoke (Globe) Asparagus Bushberry Caneberry Canola Carrot Clover Cranberry Cucurbits Flax Fruiting Vegetables (except Tomato) Garden Beet Garlic Head & Stem Brassica Vegetables Herbs Hops Leaf Petioles Leafy Brassica Greens Leafy Greens Mint Mustard Seed Onion (Dry Bulb & Green) Peaches Root Vegetables Safflower Sesame Shallots (Dry Bulb & Green) Strawberry Sweet Potato (Yam & other Tuberous and Corm Vegetables except Potato) and Tomato	Always use a crop oil concentrate at 1% v/v in the finished spray volume unless tank mix instructions indicate otherwise Addition of liquid fertilizer is not recommended for these crops
Non-Bearing Food Crops Ornamental Plants	Add a non ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0 25% v/v) Use of crop oil concentrate is not recommended since it may injure flowers and foliage
Conifer Trees Fallow Land (and other non producing agricultural areas) and Non-Crop or Non-Planted Areas	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt /A) in the finished spray volume

*Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria be non-phytotoxic contain only EPA-exempt ingredients provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils.

Ground Application

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 5 gals and a maximum of 40 gals of spray solution per acre. Under the following conditions a minimum of 10 gals, per acre is required, ultra narrow row cotton, narrow row soybeans, broadleaf herbicide tank mixes, perennial grasses, volunteer corn, drought or stress conditions, heavy grass, pressure or when grasses are at or near maximum height. Failure to use a minimum of 10 gals, per acre, under these conditions can result in poor coverage and reduced grass control requiring repeat applications. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Applications to onions (dry bulbs and green) garlic and shallots (dry bulbs and green) should be made in a minimum of 20 gals of spray solution per acre

Air Application

Use a minimum of 3 gals of spray solution per acre unless otherwise directed in this label. Increase spray volumes up to 10 gals as grass or crop foliage becomes dense. For onions (dry bulbs and green) garlic or shallots (dry bulbs and green). When applying by air do not exceed 8 fl. oz /A in a single application. In California air applications to onions garlic or shallots should be made in a minimum of 20 gals of spray solution per acre. In states other than California air application to onions, garlic or shallots should be made in a minimum of 10 gals.

NOTE Crop injury may occur when Willowood Clethodim 2EC is applied to onions, garlic or shallots with aerial equipment

Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns mix 1/4% to 1/2% (0 33 oz to 0 65 oz per gal) Willowood Clethodim 2EC and treat to wet vegetation while not allowing runoff of spray solution. For uses requiring crop oil concentrate include crop oil concentrate at 1% (1 3 oz per gal) by volume. For uses requiring non-ionic surfactant include non ionic surfactant at 1.4% (0 33 oz per gal) by volume)

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NOTE If Willowood Clethodim 2EC is applied as a spot treatment, care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur

CHEMIGATION – ONION (Dry Bulb and Green) AND GARLIC SPRINKLER IRRIGATION APPLICATION

 Do not apply Willowood Clethodim 2EC by chemigation in the states of Idaho, Montana, Oregon and Washington

Apply Willowood Clethodim 2EC at the high rate recommended for annual grasses (16 fl oz per acre) when the grass height is at the low end of the range (application to larger grasses may not provide adequate control) Add a crop concentrate containing at least 15% emulsifier at 1 quart per acre

Apply Willowood Clethodim 2EC in 0.1 to 0.2 acre-inch of water either at the end of a regular irrigation set or as a separate application not associated with a regular irrigation using the least amount of water that provides proper distribution and coverage. Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Use a metering device to inject the Willowood Clethodim 2EC into the irrigation water at a constant flow. Constant agitation must be maintained in the chemical supply tank during the entire period of herbicide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide a dye indicator may be injected into the lines to mark the end of the application period.

It is not recommended that Willowood Clethodim 2EC be applied through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption. If such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Use Precautions

- Apply this product only through sprinkler irrigation systems including center pivot lateral move end tow side (wheel) roll travelers big gun solid set or hand move. Do not apply this product through any other type of irrigation system.
- 2 Crop injury lack of effectiveness or illegal pesticide residues in the crop may result from non uniform distribution of treated water
- If you have any questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place
- A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person—shall shut the system down and make necessary adjustments should the need arise
- The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional normally close solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- 9 The system must contain functional interlocking controls to automatically shut off the pesticide

- injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Do not apply when wind speed favors drift beyond the area intended for treatment

RESTRICTIONS AND LIMITATIONS

Do not apply if rain is expected within 1 hour of application as control may be unsatisfactory

Do not apply a postemergence broadleaf herbicide within one day following application of Willowood Clethodim 2EC or reduced grass control may result

Willowood Clethodim 2EC is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided

For canola do not apply more than 6 fl oz of Willowood Clethodim 2EC per acre per season For clover flax mustard seed and radish crops do not apply more than 16 fl oz of Willowood Clethodim 2EC (0 25 lb ai) per acre per season For all other crops do not apply more than 32 fl oz of Willowood Clethodim 2EC (0 50 lb ai) per acre per season Application on Long Island New York is restricted to no more than 16 fl oz of Willowood Clethodim 2EC (0 25 lb ai) per acre per season

Do not apply more than 8 fl oz /A of Willowood Clethodim 2EC **per application** to the following crops asparagus brassica vegetables (head and stem) bean (succulent) carrot cranberry cucurbits flax fruiting vegetables (except tomato) garden beet green onion herbs hops leaf petioles leafy brassica greens leafy greens legume vegetables (edible podded) non-bearing food crops pea (dry shelled) pea (succulent) root vegetables safflower sesame and strawberry Do not apply more than 6 fl oz /A of Willowood Clethodim 2EC per application to canola or mustard seed. For all other crops do not apply more than 16 fl oz of Willowood Clethodim 2EC (0 25 lb ai) per acre per application. **Exceeding these rates may result in unacceptable crop injury**

Do not apply under conditions of stress Applying Willowood Clethodim 2EC under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include drought excessive water extremes in temperature low humidity and grasses either partially controlled or stunted from prior pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate Willowood Clethodim 2EC effectively, and will be less susceptible to herbicide activity.

Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing plowing etc.) to stimulate maximum emergence of grass shoots. Cultural practices such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up result in a very staggered non-uniform weed emergence. Due to this non-uniform weed emergence no fewer than two Willowood Clethodim 2EC applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no till conditions.

Grass crops such as corn rice sorghum small grains or turf etc are highly sensitive to Willowood Clethodim 2EC

While all the vegetable crops on this label have been tested and are tolerant to Willowood Clethodim 2EC not all specialty varieties of these crops have been tested. It is advised that before applying Willowood Clethodim 2EC to specialty varieties of vegetable crops on this label, crop tolerance be investigated first using a small section of the field. It is possible that injury symptoms can occur Symptoms may appear as leaf speckling or stunting.

Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures. including all crop rotational and other crop restrictions.

Tank mixes of Willowood Clethodim 2EC and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs an additional application of Willowood Clethodim 2EC may be necessary **AVOID SPRAY DRIFT**

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including

- Do not spray if wind speeds are or become excessive
- Do not spray if wind speed is 10 mph or greater. If sensitive crops or plants are downwind extreme caution must be used under all conditions.
- Do not spray if winds are gusty
- Use extreme caution when conditions are favorable for drift (high temperatures drought low relative humidity) especially when sensitive plants are located nearby
- Do not apply when a temperature inversion exists. If inversion conditions are suspected consult
 with local weather services before making an application.
- Further reductions in drift can be obtained by
 - 1 Using large droplet size sprays Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
 - Orienting nozzles straight back with windstream using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.
 - Increasing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift.
 - 4 Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption

CROP SPECIFIC RESTRICTIONS AND LIMITATIONS FOR WILLOWOOD CLETHODIM 2EC

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Alfalfa including Sainfoin Holy Clover Birdsfoot trefoil ⁽³⁾	15 days before grazing feeding or harvesting (cutting) for forage or hay	6 16 fl oz ⁽⁴⁾	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	Refer to tank mix partners for feeding grazing and harvesting restrictions (5 6) The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Artichoke (Globe)	5 days	6 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
				Do not apply more than 32 fl oz /A (0 5 lb al/A) per season
Asparagus	1 day	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Bean, Dry Shelled including	30 days	6-16 fl oz	1 qt by ground or 1% v/v (but	Do not apply more than 16 fl oz /A per application
Bean (<i>Lupinus</i> spp) Grain Sweet White			not less than 1 pt /A) by air (5)	For repeat applications make on a minimum of 14 day interval
White Sweet Bean (<i>Phaseolus</i> spp) Field Kidney				Refer to appropriate Table for reduced rate directions for the control of small annual grasses
Lıma (dry) Navy Pınto Tepary Bean (<i>Vıgna</i> spp)				The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome
Adzuki Bean Black eyed Pea Catjang Cowpea Crowder Pea				Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Moth Bean Mung Bean Rice Bean				
Southern Pea Urd Bean Broad (dry) Chickpea (garbanzo)				
Guar Lablab Bean Lentil				
Bean, Succulent Including Bean (Phaseolus spp) Broad Bean (succulent)	21 days	6-8 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	Refer to appropriate Table for reduced rate directions for the control of small annual grasses

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Lima Bean (green) Bean (Vigna spp) Black eyed Pea				Do not apply more than one (1) application per acre per season
Cowpea Southern Pea				The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Beet, Garden	30 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Brassica Vegetables, Head & Stem including	30 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Broccoli Brussels sprouts Cabbage Cauliflower				For repeat applications make on a minimum of a 14 day interval
Bushberry, including Aronia berry Blueberry highbush	14 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Chilean Guava Cranberry Highbush Currant Black Currant Buffalo				Do not apply more than 32 fl oz (0 5 lb ai/A) per season
Currant native Currant Red Elderberry				For repeat applications make on a minimum of a 14 day interval
European Barberry Gooseberry Honeysuckle edible Huckleberry Jostaberry				Apply at the base of the plant where grassy weeds are growing near the ground
Juneberry Saskatoon berry				Do not apply to low growing berries
Native currant Salal Sea Buckthorn Cultivars varieties and/or hybrids of these				Do not apply to Bushberry grown for root stock
Caneberry, including Blackberry	7 days	6-8 fl oz	1% v/v in the finished spray	Do not apply more than 8 fl oz /A in a single

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Loganberry			volume	application
Raspberry black Raspberry red Raspberry wild Cultivars varieties				Do not apply more than 32 fl oz /A (0 5 lb ai/A) per season
and/or hybrids of these				For repeat applications make on a minimum of a 14 day interval
				Apply at the base of the plant where grassy weeds are growing near the ground
				Do not apply to low growing berries
				Do not apply to Caneberry grown for root stock
Canola	70 days	4-6 fl oz	1% v/v in the finished spray volume	Do not apply after crop has begun bolting Crop injury may occur when Willowood Clethodim 2EC is applied during the bloom period
				Do not apply more than 6 fl oz /A in a single application
				Do not exceed 6 fl oz/A in a season
Carrot	30 days	6 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Clover	15 days before grazing feeding or harvesting (cutting) for forage	6-16 fl oz	1% v/v in the finished spray volume	For use on clover grown in the states of Idaho Oregon and Washington only
	or hay			Do not exceed 16 fl oz/A in a season
Corn, Field For burndown of	90 days	3 fl oz	Do not use COC or MSO	Do not make more than 1 application per season
existing stand of Roundup Ready field corn or volunteer			with Willowood Clethodim 2EC in this use	Do not apply more than 3 fl oz /A per season
Roundup Ready field corn prior to replanting field corn			pattern	To control the existing stand replant no sooner than 6 days after

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
See Directions for Use in Roundup Ready Field Corn (Burndown) table				application
Cotton	60 days	6-16 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	Do not graze treated fields or feed treated forage or hay to livestock The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Cranberry	30 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application Do not apply between the hook stage and full fruit set For repeat applications make on a minimum of a 14 day interval
Cucurbits including Chayote (fruit) Chinese Wax Gourd Citron Melon Cucumber Gherkin Gourd Edible Muskmelons (all) including Cantaloupes Honeydew Melon Pumpkin Squash (all) Watermelon	14 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application For repeat applications make on a minimum of a 14 day interval
Fallow Land Conifer Trees (and other non producing agricultural areas) Non Crop or Non- Planted Areas	N/A	6-16 fl oz	1% v/v (but not less than 1 pt /A) in the finished spray volume using a crop oil concentrate containing at least 15% emulsifier	Do not plant any crop for 30 days after application unless clethodim is registered for use in that crop

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Flax	60 days	6 8 fl oz	1% v/v in the finished spray volume	Apply prior to bloom Crop injury may occur when Willowood Clethodim 2EC is applied during the bloom period
				Do not apply more than 8 fl oz /A in a single application
				Do not exceed 16 fl oz /A in a season
Fruiting Vegetable (except Tomato) including	20 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Eggplant Groundcherry Pepino Peppers (all) Tomatillo				For repeat applications make on a minimum of a 14 day interval
Herbs including Angelica Balm Basil Borage Burnet Camomile Catnip Chervil (dried)	14 days	6-8 fl oz	1% v/v in the finished spray volume	Willowood Clethodim 2EC has not been tested on all herbs and herb varieties. It is the responsibility of the user to test Willowood Clethodim 2EC on a small portion of the crop to be treated before treating the entire field.
Chive Chive Chinese Clary Coriander (leaf) Costmary Cilantro (leaf) Curry (leaf) Dill (dillweed) Horehound Hyssop Lavender Lovage (leaf) Marigold Marjoram (Origanum spp) Nasturtium Parsley (dried) Pennyroyal		l		Crop tolerance should be verified to Willowood Clethodim 2EC on a small area of the herb crop at the desired Willowood Clethodim 2EC rate and with the same crop oil concentrate that will be used on the herb field. If no crop response is evident seven (7) days after treatment. Willowood Clethodim 2EC may be used on the entire field at the rate tested and with the same crop oil used in the tolerance test.
Rosemary Rue Sage				Do not apply more than 8 fl oz /A in a single application
Savory Summer and Winter				For repeat applications make on a minimum of a

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
	-			14 day interval
Hops	21 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Leaf Petioles including Cardoon	30 days	6 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Celery Celtuce Chinese Celery Fennel Florence (finochio) Rhubarb				For repeat applications make on a minimum of a 14 day interval
Swiss Chard				
Leafy Brassica Greens including Broccoli Raab	14 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in the single application
Cabbage Chinese (bok choy) Collards Kale				For repeat applications make on a minimum of a 14 day interval
Mizuna Mustard Greens Mustard Spinach				·
Rape Greens				
Leafy Greens including Amaranth	14 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Chinese Spinach Leafy Amaranth Tampala Arugula (roquette)				For repeat applications make on a minimum of a 14 day interval
Chervil Chrysanthemum Edible-leaved Chrysanthemum				
Garland Corn Salad				
Cress Garden Upland (yellow rock and winter)				
Dandelion Dock (sorrel) Endive (escarole)				
Lettuce Head and Leaf				

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Orach Parsley Purslane Garden Winter Radicchio (red chicory) Spinach New Zealand Vine (Indian and malabar)				
Legume Vegetables, Edible Podded Including Bean (Phaseolus spp) Runner Snap Wax Bean (Vigna spp) Asparagus Chinese Longbean Moth Yardlong Jackbean Pea (Pisum spp) Dwarf Edible pod Snow Sugar Snap Pigeon Sword Bean	21 days	6-8 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	Do not apply more than 8 fl oz /A in a single application Do not apply more than one (1) application per acre per season For peas apply before bloom but no later than 21 days before harvest Refer to appropriate Table for reduced rate directions for the control of small annual grasses The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer
Mint	21 days	6 16 fl oz ⁽⁴⁾	1 qt by ground or 1% v/v (but not less than 1 pt /A by air)	corn Do not apply more than 16 fl oz /A in a single application For repeat applications make on a minimum of a 14 day interval
Mustard Seed	75 days	4-6 fl oz	1% v/v in the finished spray volume	Do not apply after crop has begun bolting Crop injury may occur when Willowood Clethodim 2EC is applied during the bloom period Do not apply more than 6 fl oz /A in a single application

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
				Do not exceed 16 fl oz /A in a season
Onion (Dry Bulb Only) Garlic	45 days	6-16 fl oz ^{(7) (8)}	1% v/v in the finished spray volume	Minimum of 20 gals /A spray volume by ground in entire U S
Shallot (Dry Bulb Only)				Mınımum of 20 gals /A spray volume by aır ın Calıfornıa ⁽⁹⁾
				In states other than California air application to onions garlic or shallots should be made in a minimum of 10 gals /A
Onion, Green including Green Eschalot	14 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Japanese Bunching Onion Leeks Scallion or Spring Onion				For repeat applications make on a minimum of a 14 day interval
Ornamentals	N/A	6-16 fl oz	Use of crop oil	Add a non-ionic surfactant
Non Bearing Food Crops	N/A	6-8 fl oz ⁽⁸⁾	concentrate is not recommended since it may injure flowers	containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0 25% v/v) Sugar maples cannot be
			and foliage See Special Use Instructions	tapped for syrup within one year of Willowood Clethodim 2EC application
				Do not apply more than 8 fl oz /A in a single application to non-bearing food crops
Pea, Dry Shelled including	30 days	6-8 fl oz	1 qt by ground or 1% v/v (but	Do not apply more than 8 fl oz /A per application
Pea (<i>Pisum</i> spp) Field Pigeon			not less than 1 pt /A) by air ⁽⁵⁾	Do not apply more than one (1) application per acre per season
				Apply before bloom but not later than 30 days prior to harvest (10)
				Refer to appropriate Table for reduced rate directions for the control of small annual grasses

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oıl Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
				The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Pea, Succulent including	21 days	6-8 fl oz	1 qt by ground or 1% v/v (but	Do not apply more than 8 fl oz /A per application
Pea (<i>Pisum</i> spp) English Pea Garden Pea Green Pea			not less than 1 pt /A) by air ⁽⁵⁾	Do not apply more than one (1) application per acre per season
Pigeon Pea				Apply before bloom but not later than 21 days prior to harvest (10)
	•			Refer to appropriate Table for reduced rate directions for the control of small annual grasses
				The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Peach	14 days	6 16 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				Do not apply more than 32 fl oz /A (0 5 lb al/A) per season
				For repeat applications make on a minimum of a 14 day interval
				Do not apply to Peach grown for root stock
Peanut (including Perennial)	40 days	6-16 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
				wild oats volunteer cereals and volunteer corn
Potato	30 days	8-16 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Radish	15 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				Do not apply more than 16 fl oz /A (0 25 lb aı) per acre ın a season
				For repeat applications make on a minimum of a 14 day interval
Root Vegetable (except Radish) including	30 days	6 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
Chicory Ginseng Horseradish Turnip				For repeat applications make on a minimum of a 14 day interval
Safflower	70 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Sesame	14 days	6-8 fl oz	1% v/v in the finished spray	Do not apply during flowering
			volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Soybean	60 days	6 16 fl oz	1 qt by ground or 1% v/v (but not less than 1	Do not graze treated fields or feed treated forage or hay to livestock
			pt /A) by air ⁽⁵⁾	Refer to appropriate Table for reduced rate directions for the control of small

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
				annual grasses
				The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Strawberry	4 days	6-8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application
				For repeat applications make on a minimum of a 14 day interval
Sugar Beet	40 days	6 16 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	Refer to appropriate Table for reduced rate directions for the control of small annual grasses
				The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Sunflower	70 days	6 16 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt /A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn
Sweet Potato, Yam and Other Tuberous and Corm Vegetables (except Potato) including Artichoke Chinese Jerusalem Cassava Bitter Sweet	30 days	6-16 fl oz	1% v/v in the finished spray volume	The addition of AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass red rice wild oats volunteer cereals and volunteer corn

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Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Ginger				
Tomato	20 days	6 16 fl oz	1% v/v in the finished spray volume	For repeat applications make on a minimum of a 14 day interval
Turnip Greens	14 days	6 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz /A in a single application For repeat applications make on a minimum of a 14 day interval

N/A = Not Applicable

- Willowood Clethodim 2EC is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided
- Acceptable crop oil concentrates would be those which contain a minimum of 80% oils and 15% emulsifier. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria, be non-phytotoxic contain only EPA exempt ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. See the Addition of Adjuvant and Crop Oil Concentrate section for further information.
- Willowood Clethodim 2EC may be applied to seedling or established alfalfa grown for seed hay silage green crop or direct grazing
- ⁴ For weed control in established alfalfa and mint, the minimum use rate is 10 fl. oz /A
- 1 to 2 qts /A of liquid fertilizer (10-34-0 28%N or 32%N) or an equivalent amount (2 5 to 4 0 lbs /A) of spray grade ammonium sulfate (AMS) may be added to Willowood Clethodim 2EC applications in addition to the recommended rate of crop oil concentrate
- Do not apply Willowood Clethodim 2EC plus 2 4-DB as a tank mix to alfalfa unless the 60 day feeding grazing and harvesting restriction on the 2.4 DB label can be observed
- For ground applications to garlic or shallot do not exceed 8 fl oz /A in a single application. For air applications to onion garlic or shallot do not exceed 8 fl oz /A in a single application. For garlic and shallot do not exceed 2 applications per season. In CA for air applications to onion, do not exceed 2 applications per season.
- If Willowood Clethodim 2EC is applied as a spot treatment to onion garlic shallot or non-bearing food crops care should be taken to not exceed the maximum rate allowed on a per acre basis or crop injury may occur
- In California do not apply Willowood Clethodim 2EC to onion garlic or shallot until the crop has at least two full leaves. In California 14 day spray intervals are recommended between the application of Willowood Clethodim 2EC and liquid nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.
- Applications of Willowood Clethodim 2EC to peas during the bloom period could result in severe crop injury including loss of yield and delayed maturity

IMPORTANT

Plant tolerance to Willowood Clethodim 2EC at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species crop growth stage environments conditions and application techniques it is recommended that the user determine if the herbicide can be used safely on a few plants prior to widespread

application Neither the seller nor the manufacturer of Willowood Clethodim 2EC have investigated the safety factor to plants not listed on the label

NON-BEARING FOOD CROPS

WILLOWOOD CLETHODIM 2EC SHOULD NOT BE APPLIED TO NON BEARING FRUIT OR NUT CROPS WHICH ARE GROWN FOR ROOT STOCK

Crop injury to non-bearing fruit and nut crops can occur if Willowood Clethodim 2EC is improperly applied. Willowood Clethodim 2EC should not be applied directly over the top of these plant types. Instead, spray should be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following Willowood Clethodim 2EC application

COMMON NAME	SCIENTIFIC NAME
Apples	Malus spp
Berries	Vaccinium spp
	Rubus spp
Cherry Sweet	Prunus avium
Citrus Fruits	Citrus spp
Grapes	Vitis spp
Olives	Olea spp
Peach	Prunus persica
Pears	Pyrus communis
Prunes	Prunus spp
Stone Fruits	Prunus spp
Strawberries	Fragarıa spp
Tree Nuts	
Almond	Prunus triloba
Filbert	Corylus maxıma
Pecan	Carya ıllınoınensıs
Pistachio	Pistacia vera
Walnut	Juglans spp

CONIFER TREES

Willowood Clethodim 2EC can be used to control labeled grasses in Christmas tree farms conifer nurseries and conifer plantations (but not in forests)

COMMON NAME	SCIENTIFIC NAME
Arborvitae American	Thuja occidentalis
Cedars	Cedrus spp
Cypress	Taxodium spp
Fir Douglas	Pseudotsuga menziesii
Firs	Abies spp
Hemlock Canadian/Eastern	Tsuga Canadensis
Hemlock Western	Tsuga heterophylla
Pines	Pinus spp
Spruces	Picea spp
Yew	Taxus spp

NON CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas rights-of way including railroads highways roads dividers medians pipelines public utility lines pumping stations transformer stations and substations. Around airports electric utilities commercial buildings manufacturing plants storage yards rail yards fence lines parkways and post-harvest croplands. Also beneath greenhouse benches

and around golf courses

ANNUAL GRASSES (EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)

- Apply only to actively growing grasses at recommended weed heights
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height
- Do not apply more than 8 fl oz /A of Willowood Clethodim 2EC **per application** to the following crops asparagus carrot cranberry cucurbits flax fruiting vegetables (except tomato) garden beets green onion head and stem brassica vegetables herbs hops leafy brassica greens leafy greens non-bearing food crops root vegetables safflower sesame and strawberry Do not apply more than 6 fl oz /A of Willowood Clethodim 2EC per application to canola or mustard seed

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	RATE FL OZ/ ACRE	HIGH RATE ⁽¹⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	6	8
Broadleaf Signalgrass	Brachiaria platyphlla	2 to 6	6	8
Brome				"
California	Bromus carınatus	2 to 6	6	8
Cheat	Bromus secalinus	2 to 6	6	8
Downy	Bromus tectorum	2 to 6	6	8
Ripgut	Bromus diandrus	2 to 6	6	8
Canarygrass	Phalaris canariensis	1 to 4	6	8
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	6	8
Large	Digitaria sanguinalis	2 to 6**	6	8
Smooth	Digitaria ischaemum	2 to 6**	6	8
Southern	Digitaria ciliaris	2 to 6**	6	8
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	6	8
Fall Panicum	Panicum dichotomiflorum	2 to 8	6	8
Field Sandbur	Cenchrus incertus	2 to 6	6	8
Foxtail				
Giant	Setaria feberi	2 to 12	6	8
Green	Setaria viridis	2 to 8	6	8
Yellow	Setaria glauca	2 to 8	6	8
Goosegrass	Eleusine indica	2 to 6**	6	8
Itchgrass	Rottboellia cochinchinensis	2 to 6	6	8
Junglerice	Echinochloa colona	2 to 6	6	8
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	6	8
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	6	8
Red Rice	Oryza satıva	1 to 3	6	8
Ryegrass				
Hardy	Lolium remotum	2 to 6	6	8
Italian	Lolium multiflorum	2 to 6	6	8
Seedling Johnsongrass	Sorghum halepense	4 to 10	6	8
Shattercane	Sorghum bicolor	6 to 18	6	8
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	6	8
Sprangle top				
Amazon	Leptochloa panicoides	2 to 6	6	8
Bearded	Leptochloa fascicularis	2 to 6	6	8
Mexican	Leptochloa uninervia	2 to 6	6	8
Red	Leptochloa filiformis	2 to 6	6	8

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	RATE FL OZ/ ACRE	HIGH RATE ⁽¹⁾
Texas Panicum	Panicum texanum	2 to 6	6	8
Volunteer Cereals ⁽²⁾				
Barley	Hordeum vulgare	2 to 6	6	8
Oats	Avena satıva	2 to 6	6	8
Rye	Secale cereal	2 to 6	6	8
Wheat	Trıtıcum aestıvum	2 to 6	6	8
Volunteer Corn ⁽³⁾	Zea mays	4 to 12	4	6
Volunteer Corn ⁽³⁾	Zea mays	12 to 24	6	8
Volunteer Corn (S R) ⁽⁴⁾	Zea mays	4 to 12	8 (suppres	sion only)
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	6	8
Wild Oats	Avena fatua	2 to 6	6	8
Wild Proso Millet	Panicum miliaceum	2 to 10	6	8
Witchgrass	Panicum capillare	2 to 8	6	8
Woolly Cupgrass	Eriochloa villiosa	2 to 8	6	8

* Generally occurs between 3-leaf stage and tillering

** Length of lateral growth

(1) Rates higher than 8 fl oz /A may be applied in certain geographic areas cropping situations or environmental conditions where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations rates from 8 to 16 fl oz /A may be applied. Do not apply more than 8 fl oz /A of Willowood Clethodim 2EC per application to the following crops asparagus carrot cranberry cucurbits flax fruiting vegetables (except tomato) garden beet green onion head and stem brassica vegetables herbs hops leaf petioles leafy brassica greens leafy greens non-bearing food crops root vegetables safflower sesame and strawberry.

When a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum Willowood Clethodim 2EC use rate for control

_ IS & TIOZ /A

(3) Includes Roundup Ready® Liberty Link® and IMI CORN® volunteer corn

(4) Sethoxydim resistant volunteer corn

ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT WITH WILLOWOOD CLETHODIM 2EC					
GRASS SPECIES	WEED STAGE	RATE FL OZ / ACRE	HIGH RATE		
Annual & Perennial Grasses Listed in Grass Table	See Table	10	16		

Mowing The best control of annual grasses can be achieved by applying Willowood Clethodim 2EC before grass weeds are mowed Once grass is mowed it becomes tougher to control as much of the available leaf surface has been removed. In areas without a killing frost some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses even though they may be an annual grass may require repeated applications of Willowood Clethodim 2EC for partial or complete control.

Irrigated Alfalfa and Mint Irrigation practices can be very critical to the successful use of Willowood Clethodim 2EC in established alfalfa and mint and may be necessary to initiate active growth of the weeds prior to application. Generally applications 2 to 4 days after irrigation are most effective. Irrigation made shortly after application (2 days) can be effective, but more consistent grass control occurs when the irrigation is made before the application.

Aerial Application Apply Willowood Clethodim 2EC in a minimum of 10 GPA in established alfalfa and

mint when applying by air

Annual Grass Control Apply Willowood Clethodim 2EC at the grass sizes indicated in the Annual Grass Table and rates indicated. If a grass has been cut apply Willowood Clethodim 2EC after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring- and summer-germinating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to Willowood Clethodim 2EC may vary from region to region. Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule spray spring- and summer-germinating grasses as early in the season as possible, after initial green-up. Spray fall-germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth, or the onset of flowering.

Perennial Grass Control Willowood Clethodim 2EC effectively controls perennial grasses such as Bermudagrass Johnsongrass quackgrass wirestem muhly tall fescue foxtail barley and orchardgrass Due in part to lack of tillage perennial grasses are more difficult to control in a perennial crop such as established alfalfa or mint. A program of repeated applications is usually necessary for best results. The best way to control perennial grasses is to do so in the year of stand establishment before rhizomes and stolons become large and difficult to kill.

Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height

Always add a crop oil concentrate at 1 qt /A by ground or 1% v/v (but not less than 1 pt /A) to the finished spray volume by air

ANNUAL BLUEGRASS CONTROL WITH WILLOWOOD CLETHODIM 2EC					
GRASS SPECIES	WEED STAGE	RATE FL OZ / ACRE	HIGH RATE		
Annual Bluegrass (Poa annua)	to 4 leaf	6*	16		

Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s)

Apply at weed stage indicated on the label as reduced control can be expected with more mature annual bluegrass

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature

Always add a crop oil concentrate at 1 qt /A by ground to the finished spray volume

*Use a minimum of 10 fl oz /A to control annual bluegrass in seedling and established alfalfa and mint

FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN)				
GRASS SPECIES	WEED SIZE (Inches)	Rate when applied alone or with glyphosate		
Field Corn	Up to 12	3 fl oz /A		

For control of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting corn

Care must be taken to avoid in-field boom (spray) overlaps or excessive crop injury my occur Replant no sooner than 6 days after application

Adjuvant recommendations NIS at 0 25% v/v plus AMS at 2 5 to 4 lbs /A

Do not use COC or MSO with Willowood Clethodim 2EC in this use pattern

DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES IN CANOLA, DRY SHELLED BEAN & PEA (INCLUDING SOYBEAN), EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT BEAN & PEA AND SUGAR BEET (REDUCED RATE DIRECTIONS NOT FOR USE IN CALIFORNIA)

- Apply only to actively growing grasses at recommended weed heights
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment

• Regrowth by tillering may occur if application is made when plants are stressed by lack of moisture excessive moisture. low or high temperatures and/or under very low humidity

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	RATE FL OZ / ACRE ⁽¹⁾
Barnyardgrass	Echinochloa crus-galli	1 to 4	4
Broadleaf Signalgrass	Brachiaria platyphlla	1 to 4	5
Crabgrass			
Large	Digitaria sanguinalis	1 to 3*	4
Large	Digitaria sanguinalis	1 to 4*	5
Smooth	Dıgıtarıa ıschaemum	1 to 3*	4
Smooth	Dıgıtarıa ıschaemum	1 to 4*	5
Southern	Digitaria ciliaris	1 to 4*	5
Fall Panicum	Panicum dichotomiflorum	1 to 4	4
Foxtail			
Giant	Setarıa faberı	1 to 4	4
Green	Setaria viridis	1 to 4	4
Millet	Setarıa ıtalıc	1 to 4	5
Yellow	Setaria glauca	1 to 4	4
Seedling Johnsongrass	Sorghum halepense	1 to 6	5
Shattercane	Sorghum bicolor	4 to 10	4
Texas Panicum	Panıcum texanum	1 to 4	5
Volunteer Cereals			
Barley	Hordeum vulgare	1 to 4	5
Oats	Avena satıva	1 to 4	5
Wheat	Triticum aestivum	1 to 4	5
Volunteer Corn**	Zea mays	4 to 12	4
Wild Proso Millet	Panicum miliaceum	1 to 6	4
Wild Oats	Avena fatua	1 to 4	5

^{*} Length of lateral growth

PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height
- Do not apply more than 8 fl oz /A of Willowood Clethodim 2EC per application to the following crops asparagus carrot cranberry cucurbits flax fruiting vegetables (except tomato) garden beet green onion head & stem brassica vegetables herbs hops leaf petioles leafy brassica greens leafy greens non-bearing food crops root vegetables safflower sesame and strawberry Do not apply more than 6 fl oz /A of Willowood Clethodim 2EC per application to canola or mustard seed

^{**} Not S R Corn

⁽¹⁾ Always add a crop oil concentrate at 1 qt /A by ground application to the finished spray volume

GRASS SPECIES	WEED HEIGHT (inches)	RATE FL OZ/ ACRE	HIGH RATE
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6 runners)	8	16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6 runners)	8	16
Fescue Tall (Festuca arundinacea)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	8	16
Repeat Application(s) (if regrowth occurs)	2 to 6	8	16
Orchardgrass (Dactylis glomerata)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Quackgrass* (Elytrigia repens)			
First Application	4 to 12	8	16
Repeat Application(s) (if regrowth occurs)	4 to 12	8	16
Rhizome Johnsongrass (Sorghum halepense)			
First Application	12 to 24	8	16
Repeat Application(s) (if regrowth occurs)	6 to 18	6	8
Wirestem Muhly (<i>Muhlenbergia frondosa</i>)]	
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Perennial Bluegrass*			
Roughstalk (<i>Poa trivialis</i>)			
Kentucky (Poa prantensis)			
First Application	2 to 4	8	16
Repeat Application(s) (if regrowth occurs)	2 to 4	8	16
Bentgrass* (Agrostis spp)			
First Application	2 to 4	-	16
Repeat Application(s) (if regrowth occurs)	2 to 4	-	16

^{*}Control of quackgrass perennial bluegrass and bentgrass with Willowood Clethodim 2EC may be enhanced by adding AMS at 2 5 to 4 0 lbs /A

TANK MIXES INFORMATION

The labels for each of the herbicides recommended for tank mixing with Willowood Clethodim 2EC are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the Willowood Clethodim 2EC label in certain considerations. Those concerns may include but are not limited to

- 1 Geographic restrictions all products are not registered for use in all areas and rates may vary from one region of labeled use to another
- 2 Crop rotation restrictions
- 3 Applicator certification requirements

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- 4 Worker safety rules (e.g. protective clothing reentry time posting)
- 5 Soil type or soil characteristics (e.g. pH OM)
- 6 Maximum dosage or number of applications per season
- 7 Rain free period required or
- 8 Application timing (e.g. pre-harvest interval)
- 9 Do not exceed the total season rates

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED

TANK MIX APPLICATION OF WILLOWOOD CLETHODIM 2EC AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label
- Apply when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment
- Apply under favorable soil moisture and humidity that exist a few days after rainfall or within seven days after irrigation
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank mix combination
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop
 injury as compared to either product used alone. If regrowth occurs or an additional flush of new
 grass emerges make a second application of Willowood Clethodim 2EC as specified in the
 respective size and rate tables.
- Do not tank mix Willowood Clethodim 2EC when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage

MIXING INSTRUCTIONS

- 1 Fill clean spray tank 1/2 to 2/3 of desired level with clean water
- While agitating add the correct amount of Willowood Clethodim 2EC Agitation should create a rippling or rolling action on the water surface
- If tank mixing Willowood Clethodim 2EC with other labeled herbicides add water soluble bags first followed by dry formulations flowables emulsifiable concentrates and then solutions Prepare no more spray mixture than is required for the immediate spray operation
- 4 Add any required adjuvants (crop oil concentrate non-ionic surfactant and/or nitrogen solution)
- Fill spray tank to desired level with water Agitation should continue until all spray solution has been applied

Failure to agitate the spray solution may result in improper mixing of the herbicides and unsatisfactory weed control. Mixing and compatibility qualities should be verified by a jar test

INFORMATION ON ANTAGONISM

Tank mixes of Willowood Clethodim 2EC with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when Willowood Clethodim 2EC is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA

Table 1 WILLOWOOD CLETHODIM 2EC TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA

(Refer to tables above for specific grasses and growth stages)

PRODUCT ⁽²⁾	APPLICATION R	APPLICATION RATES/ACRE ⁽¹⁾		OIL	
	ANNUAL GRASSES	PERENNIAL		NTRATE ⁽³⁾ V/V)	
		GRASSES	GROUND	AIR	
Willowood			1%	1%	

	APPLICATION	RATES/ACRE ⁽¹⁾	CROP OIL CONCENTRATE ⁽³⁾ (V/V)	
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL		
		GRASSES	GROUND	AIR
Clethodim 2EC	10 to 16 fl oz	10 to 16 fl oz		
+	+	+		
2 4-DB ⁽⁴⁾	Refer to 2 4-DB label	Refer to 2 4-DB label		
Willowood				
Clethodim 2EC	10 to 16 fl oz			
+	+		40/	40/
PURSUIT DG ⁽⁵⁾	1 08 to 2 16 oz	-	1%	1%
or	or			
PURSUIT ⁽⁵⁾	3 to 6 fi oz			
Willowood				
Clethodim 2EC	10 to 16 fl oz			
+	+		0.50/	0.5%
BUCTRIL® 2L(6)	1 0 to 1 5 pts	-	0 5%	0 5%
or	or			
BUCTRIL GEL ⁽⁶⁷⁾	0 5 to 0 75 pt			

(1) If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations

(2) Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

(4) Willowood Clethodim 2EC plus 2 4-DB may increase the severity of crop injury when tank mixed Alfalfa plants will generally outgrow this temporary crop injury within a few weeks

(5) Before using this tank mix read and understand the PURSUIT or PURSUIT DG labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. Do not feed graze or harvest alfalfa for 30 days following an application of PURSUIT to alfalfa.

(6) In the states of Washington Oregon Idaho Montana Wyoming Colorado Utah Nevada and the western halves of North Dakota South Dakota Nebraska and Kansas The Willowood Clethodim 2EC plus BUCTRIL or BUCTRIL GEL tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliates. Unacceptable crop injury may occur to alfalfa seedlings less than the 2 trifoliate leaf stage. Willowood Clethodim 2EC plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 80°F at (and 3 days following) application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When the alfalfa stand is uneven and conditions favor leaf burn unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. Willowood Clethodim 2EC plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 70°F at (and 3 days following) application can result in unacceptable crop injury. Crop leaf burn can occur following Willowood Clethodim 2EC plus BUCTRIL or BUCTRIL GEL application. Warm. humid conditions may enhance leaf burn. New crop growth will not be affected.

⁽⁷⁾ Do not apply when alfalfa is under moisture temperature insect or disease stress or has been stressed by other pesticide carryover or application

CANOLA

Table 2 REDUCED RATE WILLOWOOD CLETHODIM 2EC TANK MIXES WITH BROADLEAF HERBICIDES FOR CANOLA

(Refer to the tables above for specific grasses and growth stages)

	APPLICATION	CATION RATES/ACRE		CHICATE
PRODUCT	ANNUAL GRASSES ⁽¹⁾	PERENNIAL GRASSES	GROUND AI	
Willowood Clethodim 2EC ⁽²⁾ + LIBERTY ⁽³⁾	4 to 5 fl oz + 34 fl oz	-	3 0 lbs	3 0 lbs

⁽¹⁾ Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES table

COTTON

Table 3 WILLOWOOD CLETHODIM 2EC TANK MIXED WITH COBRA® AND MSMA APPLIED POST DIRECTED TO COTTON

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾		CROP OIL CONCENTRATE ⁽³⁾ V/V	COMMENTS
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	
Willowood Clethodim 2EC ⁽⁴⁾	6 to 8 fl oz	8 to 16 fl oz	1%	Reduce broadcast rate
+ COBRA +	See COBRA label for limitations for cotton for weed height and s	in proportion to the band area actually		
MSMA (4 0 lbs /gal) or MSMA	See MSMA label for r limitations for cotton for weed height and s	treated		
(6 6 lbs /gal)				

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

⁽²⁾ Do not apply Willowood Clethodim 2EC tank mix during or after bolting or flowering or crop injury may occur

⁽³⁾ For use only on LibertyLink® canola

⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations

⁽³⁾ Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

⁽⁴⁾ If at the time of application grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control may result and a second (non-post directed) application of Willowood Clethodim 2EC may be necessary

Table 4 WILLOWOOD CLETHODIM 2EC TANK MIXED WITH BUCTRIL 4 EC TO CONTROL EMERGED WEEDS IN BXN COTTON AS A BROADCAST APPLICATION

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾ ANNUAL GRASSES	CROP OIL CONCENTRATE PER ACRE ⁽³⁾	COMMENTS ⁽⁷⁾
Willowood Clethodim 2EC + BUCTRIL 4 EC ^(4 5 6)	8 to 16 fl oz See BUCTRIL 4 EC label for rates to control broadleaf weeds and height limitations for cotton	1 qt	See charts for grasses controlled

(1) Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage

(3) Always add a crop oil concentrate at 1 qt /A by ground in the finished spray solution

⁽⁵⁾ Do not apply the Willowood Clethodim 2EC plus BUCTRIL tank mix within 75 days of harvest

(7) Use a minimum of 10 gals of spray solution per acre

Table 5 WILLOWOOD CLETHODIM 2EC TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON AS A BROADCAST APPLICATION

	APPLICATION RATES/ACRE ⁽¹⁾		ADJUVANT			
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built in adjuvant	Glyphosate formulation without built in adjuvant	COMMENTS	
Willowood Clethodim 2EC +	6 to 8 floz	8 to 16 fl oz	Non-ionic surfactant @ 0 125 to	Crop oil concentrate @ 1 pt /A	See charts for grasses controlled	
GLYPHOSATE	See glyphosate lab control broadleaf w limitations for cotton	eeds and height	0 25% v/v plus ammonium sulfate @ 8 5 to 17 lbs per 100 gals of carrier	plus ammonium sulfate @ 8 5 to 17 lbs per 100 gals of carrier	Use a minimum of 10 gals of spray solution per acre	

(1) If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC at the recommended rate with the appropriate amount of crop oil concentrate

⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC at the recommended rate with the appropriate amount of crop oil concentrate in a non BUCTRIL tank mix

⁽⁴⁾ Applications of BUCTRIL 4 EC can be made only to cotton that has been genetically modified for crop tolerance to postemergence over the top application of bromoxynil

⁽⁶⁾ Do not exceed 2 applications of BUCTRIL before cotton is 12 inches tall and one application after 12 inches tall

DRY SHELLED AND SUCCULENT BEANS

Table 6 WILLOWOOD CLETHODIM 2EC TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY SHELLED AND SUCCULENT BEANS

(Refer to the tables above for specific grasses and growth stages)

	APPLICATION R	ATES/ACRE ⁽¹⁾	CROP OIL CONCENTRATE ⁽³⁾		
PRODUCT ⁽²⁾	ANNUAL GRASSES	GRASSES PERENNIAL		RATE ^(*) /)	
		GRASSES	GROUND AIR		
Willowood Clethodim 2EC	8 to 10 fl oz	10 to 16 fl oz	1%	1%	
BASAGRAN®	1 0 to 2 0 pts	1 to 2 pts			

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations

FLAX

Table 7 REDUCED RATE WILLOWOOD CLETHODIM 2EC TANK MIXED WITH BROADLEAF HERBICIDES FOR FLAX

(Refer to the tables above for specific grasses and growth stages)

	APPLICATIO	N RATES/ACRE		
PRODUCT	ANNUAL	PERENNIAL		
	GRASSES ⁽¹⁾	GRASSES	GROUND	AIR
Willowood Clethodim 2EC	4 to 5 fl oz			
+	+	-	1 pt	1 pt
BRONATE ADVANCED ^{TM(2 3)}	11 4 fl oz			
Willowood Clethodim 2EC	4 to 5 fl oz			
+	+	-	1 pt	1 pt
BRONATE ^{®(2 3)}	0 9 pt			
Willowood Clethodim 2EC	4 to 5 floz			
+	+		1 pt	1 pt
BUCTRIL ^(2 3)	1 0 pt		·	
Willowood Clethodim 2EC	4 to 5 fl oz			
+	+	-	1 pt	1 pt
RHONOX ^{®(2 3)}	0 25 to 0 5 pt]	•

⁽¹⁾ Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES table

⁽²⁾ Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

⁽³⁾ Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

⁽²⁾ Do not apply Willowood Clethodim 2EC tank mix during or after the bud stage or to ornamental flax or crop injury may occur

⁽³⁾ Do not apply tank mixes if temperatures are expected to exceed 85°F at (or 3 days following) application or crop injury may occur

SOYBEAN

Table 8 WILLOWOOD CLETHODIM 2EC TANK MIXES⁽³⁾ TO CONTROL ANNUAL GRASSES WHEN USED AS A BURNDOWN IN NO-TILL SOYBEAN

PRODUCT	PRODUCT RATE/ACRE ⁽¹⁾	GRASS HEIGHT (inches)	CROP OIL CONCENTRATE /ACRE ⁽²⁾	28%N <i>OR</i> 32%N QTS /A <i>OR</i> 2 5 TO 4 0 LBS AMS
Willowood Clethodim 2EC	3 fl oz	Foxtail 1 to 3 Fall Panicum 1 to 3	1 qt	1 to 2 qts or
+ 2 4-D ester* ⁽³⁾				2 5 to 4 0 lbs AMS
	4 fl oz	Foxtail 1 to 4 Fall Panicum 1 to 4	1 qt	1 to 2 qts or 2 5 to 4 0 lbs AMS
	6 to 8 fl oz + 0 5 lb aı	(See Grass Chart for grasses claimed)	1 qt	1 to 2 qts or 2 5 to 4 0 lbs AMS

^{* 2 4-}D ester should not be used where drift sensitive crops may be grown

(2) Always use a crop oil concentrate at the listed rate in the finished spray volume

Table 9 WILLOWOOD CLETHODIM 2EC TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN

(Refer to the tables above for specific grasses and growth stages) APPLICATION RATES/ACRE(1) CROP OIL CONCENTRATE⁽³⁾ PRODUCT⁽²⁾ ANNUAL PERENNIAL (V/V) **GRASSES GRASSES** GROUND AIR Willowood Clethodim 2EC 6 to 8 fl oz 8 to 16 fl oz 0 5 to 1% 1% COBRA 12 5 fl oz 12 5 fl oz Willowood Clethodim 2EC 8 to 10 fl oz 10 to 16 fl oz 1% 1% BASAGRAN 4 SL 1 to 2 pts 1 to 2 pts Willowood Clethodim 2EC 8 to 16 fl oz 6 to 8 fl oz 0 5 to 1%⁽⁴⁾ 1%⁽⁴⁾ Glyphosate (For use on 0 75 to 3 0 lb ai 0 75 to 3 0 lb^a ar Roundup Ready soybean only) Willowood Clethodim 2EC 6 to 8 fl oz 6 to 8 fl oz 0 5% to 1% 1% ULTRA BLAZER® 1 to 1 5 pts 1 to 1 5 pts Willowood Clethodim 6 to 8 fl oz 8 to 16 fl oz 1% 1% 2EC Refer to the Refer to the

⁽¹⁾ If regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC according to the appropriate size and rate recommendations

⁽³⁾ The following products can be tank mixed with Willowood Clethodim 2EC plus 2 4-D ester VALOR® AUTHORITY® BROADLEAF CANOPY XL® DUAL® 8 E DUAL II® DUAL MAGNUM® PROWL® SENCOR® SENCOR plus the DUAL products and TURBO®

	APPLICATION	ON RATES/ACRE ⁽¹⁾	CROP OIL CONCENTRATE ⁽³⁾	
PRODUCT ⁽²⁾	ANNUAL	PERENNIAL		(V)
	GRASSES	GRASSES	GROUND	AIR
FLEXSTAR® HL ⁽⁶⁾	FLEXSTAR HL label for specific application rates	FLEXSTAR HL label for specific application rates		
Willowood Clethodim 2EC +	8 to 10 fl oz	10 to 16 fl oz	1%	1%
CLASSIC [®] 25 DG	0 5 to 0 75 oz	1 44 oz		
Willowood Clethodim 2EC ⁽⁴⁾ + PURSUIT® 70 DG	6 to 8 fl oz + 1 44 oz	8 to 16 fl oz + 1 44 oz	1%	1%
Willowood Clethodim 2EC ⁽⁵⁾	8 to 10 fl oz	1 44 02		
COBRA + CLASSIC 25 DG	6 to 8 fl oz + 0 5 to 0 75 oz		0 5%	1%
Willowood Clethodim 2EC ^(S) +	8 to 10 fl oz	-	0 5%	1%
COBRA + BASAGRAN 4 SL Willowood Clethodim	6 to 10 fl oz + 1 to 1 5 pts			1,70
2EC ⁽⁵⁾ + COBRA	8 to 10 fl oz + 6 to 10 fl oz	-	0 5%	1%
+ PURSUIT 70 DG	1 44 oz			
Willowood Clethodim 2EC ⁽⁵⁾	8 to 10 fl oz +	-	0 5%	1%
STORM®	1 5 pts			
Willowood Clethodim 2EC ^(S) + RESOURCE [®] +	8 to 10 fl oz + 4 fl oz +		1%	1%
PURSUIT 70 DG	1 44 oz			
Willowood Clethodim 2EC ⁽⁵⁾	8 to 10 fl oz			-
RESOURCE + BASAGRAN	+ 4 fl oz + 1 pt	-	1%	1%
Willowood Clethodim 2EC ⁽⁵⁾ + RESOURCE	8 to 10 fl oz + 4 fl oz	-	1%	1%
+ CLASSIC	+ 0 5 oz			

(0)	APPLICATIO	N RATES/ACRE(1)	CROP OIL CONCENTRATE(3)	
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	(V/	/)
Willowood Clethodim	OKAGGEG	GRAGGEG	GROUND	AIR
2EC ⁽⁵⁾	6 to 8 floz			
+	+	-	0.5%	1%
COBRA +	6 fl oz +			
RESOURCE	4 fl oz			
Willowood Clethodim				
2EC ⁽⁵⁾	6 to 8 fl oz +	8 to 16 fl oz +	1%	-
FIRSTRATE®	0 3 oz	0 3 oz		
Willowood Clethodim 2EC ⁽⁵⁾	001	0 / 40 /		
2EC(*)	6 to 8 fl oz +	8 to 16 fl oz +		
COBRA	6 to 8 fl oz	6 to 8 floz	1%	
+	+	+		
FIRSTRATE Willowood Clethodim	0 3 oz	0 3 oz		
2EC ⁽⁵⁾	6 to 8 floz		1%	
+ DADTOD® (4.40)	+		170	-
RAPTOR® (1 AS) Willowood Clethodim	4 to 5 fl oz			
2EC ⁽⁵⁾	6 to 8 fl oz			
+	+	-	1%	
COBRA +	6 to 8 fl oz +			
RAPTOR (1 AS)	4 to 5 fl oz			
Willowood Clethodim 2EC ⁽⁵⁾	C+ 0 (1 (7)			
2EC(*)	6 to 8 fl oz ⁽⁷⁾ +	<u>-</u>	1 qt	
SYNCHRONY® STS™	0 5 oz /A			
Willowood Clethodim	O 1 O 5 (7)			
2EC ⁽⁵⁾	6 to 8 floz ⁽⁷⁾ +	_		
COBRA Herbicide	4 to 8 floz		1 pt	-
+ CVNCUDONY CTCTM	+			
SYNCHRONY STS™ Willowood Clethodim	0 5 oz			
2EC ⁽⁵⁾	6 to 8 floz	-	1 qt	_
+	+		'4'	-
RESOURCE Willowood Clethodim	4 to 12 fl oz 8 to 10 fl oz			
2EC ⁽⁵⁾	+			
+ FDONTDOM/IM	Refer to		1%	-
FRONTROW™	FRONTROW label for use			
	rates			
Willowood Clethodim	64-04	0 to 10 ft ==		-
2EC +	6 to 8 fl oz +	8 to 16 fl oz +	1%	-
FIRSTRATE	0 3 oz	0 3 oz		
+	+	+		

	APPLICATIO	N RATES/ACRE(1)	CROP OIL CONCENTRATE ⁽³⁾ (V/V)	
PRODUCT ⁽²⁾	ANNUAL	PERENNIAL		
	GRASSES	GRASSES	GROUND	AIR
FLEXSTAR HL ⁽⁵⁾	Refer to the FLEXSTAR HL	Refer to the FLEXSTAR HL label		
	label for specific	for specific application		
	application rates	rates		

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations

SOYBEAN (continued)

Table 10 REDUCED RATE WILLOWOOD CLETHODIM 2EC TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (Refer to table for reduced rate use in canola, dry shelled bean & pea, edible podded legume vegetables, flax, mustard seed, soybean, succulent bean & pea and sugar beet for small annual grasses for specific grasses and growth stages)

	APPLICATION	NRATES/ACRE(1)	CROP OIL		
PRODUCT	ANNUAL PERENNIAL		CONCENTRATE ^(3 4) (V/V)		
	GRASSES ⁽²⁾	GRASSES	GROUND	AIR	
Willowood Clethodim					
2EC	4 to 8 floz	-			
+	+		1%	1%	
FIRSTRATE	0 3 oz				
Willowood Clethodim					
2EC	4 to 6 floz	-	1%	1%	
+	+		1 /0	1 /0	
PURSUIT 70 DG	1 44 oz				

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

⁽²⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

⁽³⁾ Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

⁽⁴⁾ The addition of 2 5 lb of ammonium sulfate is required when Willowood Clethodim 2EC is tank mixed with glyphosate If the glyphosate formulation has a stand alone built in adjuvant add 0 125% v/v non ionic surfactant in place of crop oil concentrate. If the glyphosate formulation does not have a built in adjuvant add 0 5 to 1% crop oil concentrate for ground application and 1% v/v for aerial application.

(5) The addition of 1 to 2 qts /A of liquid fertilizer (10-34 0 28%N or 32%N) is recommended when Willowood Clethodim 2EC is tank mixed with PURSUIT RESOURCE STORM FIRSTRATE. SYNCHRONY RAPTOR FRONTROW COBRA plus CLASSIC COBRA plus BASAGRAN COBRA plus PURSUIT COBRA plus FIRSTRATE COBRA plus SYNCHRONY and COBRA plus RAPTOR. An equivalent amount (2 5 to 4 0 lbs /A) of spray grade ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

(6) Refer to FLEXSTAR HL label for geographic and rotational restrictions.

Annual grasses and sizes controlled with these tank mixes are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES table

⁽²⁾ Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES table

⁽⁴⁾ The addition of 1 to 2 qts /A of liquid fertilizer (10-34 0 28%N or 32%N) is required when Willowood

Clethodim 2EC is tank mixed at reduced rates. An equivalent amount (2.5 to 4.0 lbs /A) of spray grade ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

PEANUT (INCLUDING PERENNIAL)

Table 11 WILLOWOOD CLETHODIM 2EC TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (INCLUDING PERENNIAL)

(Refer to the tables above for specific grasses and growth stages)

0 5 to 1 5 pts

8 to 10 fl oz

ULTRA BLAZER

Willowood Clethodim 2EC

APPLICATION RATES/ACRE(1) **CROP OIL** CONCENTRATE⁽³⁾ PRODUCT⁽²⁾ **PERENNIAL ANNUAL** (V/V) GRASSES⁽²⁾ **GRASSES** GROUND AIR Willowood Clethodim 2EC 8 to 10 fl oz 1% 1% **BASAGRAN** 10 to 20 pts Willowood Clethodim 2EC 8 to 10 fl oz 1% 1%

(2) Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

(3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT (INCLUDING PERENNIAL) WITH WILLOWOOD CLETHODIM 2EC						
GRASS SPECIES	WEED STAGE	RATE FL OZ/ ACRE	HIGH RATE			
Annual and perennial grasses that exceed height claimed for control on height charts "ANNUAL GRASSES" & "PERENNIAL GRASSES"	Up to and including grasses in the seed head stage	16	32			

Add a crop oil concentrate at 1 gt /A by ground to the finished spray volume

1%

1%

SUGAR BEET

Table 12 WILLOWOOD CLETHODIM 2EC TANK MIXED WITH STINGER® APPLIED TO SUGAR BEET

(Refer to the tables above for specific grasses and growth stages)

PRODUCT ⁽²⁾	APPLICATION RATES/ACRE ⁽¹⁾		CROP OIL CONCENTRATE ⁽³ (V/V)	
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
Willowood Clethodim 2EC +	6 to 8 fl oz	8 to 16 fl oz	1%	1%
STINGER	See STINGER label	for rates		

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations

Table 13 WILLOWOOD CLETHODIM 2EC TANK MIXED WITH BETAMIX® or BETANEX® APPLIED TO SUGAR BEET

(4)	WEEDS O	ONTROLLED	WEED	APPLICATION	
PRODUCT ⁽¹⁾	COMMON NAME	SCIENTIFIC NAME	HEIGHT (inches)	RATE/ACRE ⁽²⁾	
Willowood Clethodim 2EC ⁽³⁾ + BETAMIX or	Barnyardgrass Foxtail Foxtail Millet Wild Oat Wild Proso Millet	Echinochloa crus-galli Setaria spp Setaria italic Avena fatua Panicum miliaceum	1 to 3 8 fl oz 1 to 3		
BETANEX			See BETAMIX label for rates to control broadleaf weeds No additives are recommended in the tank mix		
			See BETANEX label for rates to control broadleaf weeds No additives are recommended in the tank mix		

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

⁽²⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

⁽³⁾ Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

⁽²⁾ Do not use crop oil concentrate. No additives are recommended in the tank mix. If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix herbicide) according to the appropriate size and rate recommendations (3) If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC at full label rate with appropriate rate of crop oil concentrate

Table 14 WILLOWOOD CLETHODIM 2EC PLUS BETANEX OR BETAMIX TANK MIX FOR THREE SEQUENTIAL APPLICATIONS FOR ANNUAL GRASS CONTROL (MICRO-RATE APPLICATION)

	APPLICATION	RATES/ACRE ⁽¹⁾	METHYL	
PRODUCT		GRASSES	SEED OIL ⁽²⁾ (V/V	
. Noboo.	ANNUAL GRASSES	CONTROLLED (inches)	GROUND	AIR
Willowood Clethodim		Green Foxtail (1-2)	1 5%	1 5%
2EC	2 to 3 floz	Yellow Foxtail (1-2)		
+	+	Barnyardgrass (1-2)		
BETANEX	8 to 12 fl oz ⁽³⁾	Wild Oat (1 2)		
or	or	Volunteer Cereals (1 2)		
BETAMIX	8 to 12 fl oz ⁽³⁾			

⁽¹⁾ Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

Directions for Use for Micro-Rate Applications to Sugar Beet Application Information

Multiple micro-rate applications of Willowood Clethodim 2EC in tank mixtures with reduced rates of BETANEX or BETAMIX and methylated seed oils may be applied by air or ground equipment to sugar beet to control early germinating annual grasses listed above. The rate of BETANEX or BETAMIX must not exceed 0.12 lb. ai./A (broadcast application) when in combination with these spray adjuvants. Note that maximum rate allowed varies depending on crop growth stage. The use of wetting agents or spray adjuvants with conventional rates (0.73 to 1.22 lb. ai./A) or multiple low rate (0.24 to 0.73 lb. ai./A) applications of BETANEX or BETAMIX is prohibited on the BETANEX and BETAMIX master label Favorable climatic conditions (good conditions for plant growth and development) are essential for adequate weed control. All use precautions and restrictions on the BETANEX and BETAMIX master labels must be followed.

Directions for Using Micro-Rate Multiple Applications of Willowood Clethodim 2EC Tank Mixes Apply Willowood Clethodim 2EC in broadcast applications only at a rate of 2 to 3 fl. oz /A in tank mixture with either BETANEX or BETAMIX following the directions for use on the tank mix partner label. A minimum of three sequential applications of 2 fl. oz /A or a minimum of 2 sequential applications of 3 fl. oz /A should be utilized for Willowood Clethodim 2EC tank mixtures. A minimum of 3 sequential applications of BETAMIX or BETANEX should be used. Accurate timing is essential, make initial application immediately after weeds emerge, and make repeat applications on 5 to 7 day intervals. If weed control is not adequate due to climatic conditions, spray coverage or other factors, return to conventional application rates of Willowood Clethodim 2EC (6 to 8 fl. oz /A) and add rates of BETANEX or BETAMIX as directed on their label. When using conventional rates of BETANEX or BETAMIX in tank mixtures with Willowood Clethodim 2EC, a spray adjuvant is not recommended.

Use Precautions for Micro-Rate Applications (See Willowood Clethodim 2EC, BETANEX and BETAMIX master label for further use precautions)

Not all weeds will be adequately controlled even with favorable climatic conditions. Conventional rates of Willowood Clethodim 2EC BETANEX or BETAMIX and/or hand labor may be required if multiple microrate applications do not adequately control weeds. Plugging of spray nozzles may be encountered due to the potential for formation of a precipitate in the spray solution that is often associated with micro-rate applications. Willowood LLC will not be responsible for any nozzle plugging that may occur with the use of multiple micro rate applications. Methylated seed oils must not be added if the BETANEX or BETAMIX rate exceeds 0.12 lb. ai./A broadcast as the addition of methylated seed oils could increase the possibility of crop injury at dosage rates greater than 0.12 lb. ai./A

⁽²⁾ Always use a methylated seed oil at the listed rate (but not less than 1 pt /A) in the finished spray volume

⁽³⁾ Use 8 fl oz /A rate when sugar beet are in the cotyledon to 4 leaf stage. Rate can be increased up to 12 fl oz /A when the smallest sugar beet plants in the field are in the 4 true leaf stage or larger.

GROUND APPLICATION

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 10 gals, and a maximum of 20 gals, of spray solution per acre. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles

AERIAL APPLICATION

Use of sufficient spray volumes is essential to ensure complete coverage. Use a minimum of 5 gals and a maximum of 15 gals of spray solution per acre

Table 15 TANK MIX APPLICATION OF WILLOWOOD CLETHODIM 2EC AND FUNGICIDES FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGAR BEET

	APPLICATION R	CROP OIL	
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CONCENTRATE ⁽³⁾ (V/V)
Willowood Clethodim 2EC	6 to 8 fl oz	8 to 16 fl oz	1%
+ EMINENT®	+ 13 fl oz	+ 13 fl oz	170

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix fungicide) according to the appropriate size and rate recommendations

Table 16 TANK MIX APPLICATION OF WILLOWOOD CLETHODIM 2EC AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUT (INCLUDING PERENNIAL), SOYBEAN AND SUNFLOWER

	APPLICATION	RATES/ACRE ⁽¹⁾				CR	OP		
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE (V/V) ⁽³⁾	Alfalfa ⁽⁴⁾	Cotton	Mint ^(4 5)	Peanut	Soybean	Sunflower
Willowood					Χ	Χ	Χ		
Clethodim 2EC	6 to 8 floz	6 to 8 fl oz	1%						
+ 00TUCNE® 75.0	+	+							
ORTHENE® 75 S	0 33 to 1 33 lbs	0 33 to 1 33 lbs		İ					
or ORTHENE 97	or 0 25 to 1 0 lb	or 0 25 to 1 0 lb							
Willowood	0 23 10 1 0 10	0 23 10 1 0 10			X	Х	Х	Х	
Clethodim 2EC	6 to 8 fl oz	8 to 16 fl oz	1%		^	^	^	^	
+	+	+	1 70						
ORTHENE 90 S(6)	0 25 to 1 lb	0 25 to 1 lb							
Willowood Clethodim 2EC +	6 to 8 fl oz	8 to 16 fl oz	1%		X		Χ		
DANITOL® 2 4 EC	10 2/3 to 16 fl oz	10 2/3 to 16 fl oz							
Willowood	6 to 8 fl oz	8 to 16 fl oz							Х
Clethodim 2EC	+	+	1%						ļ
+	Refer to ASANA	Refer to ASANA							
ASANA XL®	XL label	XL label							
Willowood	6 to 8 floz	8 to 16 fl oz							Х
Clethodim 2EC	+	+	1%						
+ +	Refer to	Refer to							
WARRIOR®	WARRIOR label	WARRIOR label							

⁽²⁾ Refer to Willowood Clethodim 2EC and fungicide label for rates and weeds and diseases controlled (3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray volume

	APPLICATION	RATES/ACRE(1)				CR	OP		
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE (V/V) ⁽³⁾	Alfalfa ⁽⁴⁾	Cotton	Mınt ^(4 5)	Peanut	Soybean	Sunflower
Willowood	10 to 16 fl oz (7)	10 to 16 fl oz		X					
Clethodim 2EC	+	+	1%						
+	Refer to	Refer to							
WARRIOR	WARRIOR label	WARRIOR label							
Willowood	10 to 16 fl oz (7)	10 to 16 fl oz		X					
Clethodim 2EC	+	+	1%						
+	Refer to	Refer to		1 1				ĺ	
BAYTHROID [®]	BAYTHROID label	BAYTHROID label							
Willowood	10 to 16 fl oz (/)	10 to 16 fl oz (/)		X		j			
Clethodim 2EC	+	+	1%						
+	Refer to	Refer to					Ì		
DIMETHOATE®	DIMETHOATE	DIMETHOATE						İ	
······································	label	label							
Willowood	10 to 16 fl oz (7)	10 to 16 fl oz	/0\	X					
Clethodim 2EC	+	+	1 to 2 pt ⁽⁸⁾						į
+	Refer to	Refer to					İ		
LORSBAN®	LORSBAN label	LORSBAN label							
Willowood	10 to 16 fl oz (7)	10 to 16 fl oz		X					
Clethodim 2EC	+	+	1%						
+	Refer to POUNCE	Refer to POUNCE					ĺ		
POUNCE®	label	label				!			

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges make a second application of Willowood Clethodim 2EC alone (without a tank mix fungicide) according to the appropriate size and rate recommendations

(2) Refer to Willowood Clethodim 2EC and fungicide label for rates and weeds and diseases controlled (3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt /A) in the finished spray

/oiume

(5) The Willowood Clethodim 2EC rate should be 6 to 8 fl oz /A for annual grass control in baby mint minimum of 8 fl oz /A for annual grass control in established mint and 8 to 16 fl oz /A for perennial grass control. Crop oil concentrate should be added at the rate of 1 0 to 2 0 pts /A

(6) Insecticide tank mix use with ORTHENE 90 S in soybean is permitted only in a state having an approved Section 24(c) registration for ORTHENE 90 S use in soybean (7) The Willowood Clethodim 2EC rate should be 6 to 8 fl oz /A for annual grass control in seedling alfalfa

(*) The Willowood Clethodim 2EC rate should be 6 to 8 fl oz /A for annual grass control in seedling alfalfa (8) For the Willowood Clethodim 2EC plus LORSBAN tank mix reduce the adjuvant rate down to 1 0 pt /A when the LORSBAN rate is 1 0 pt /A or higher

Table 17 ROUNDUP READY VOLUNTEER CORN CONTROL IN ROUNDUP READY SOYBEAN WITH WILLOWOOD CLETHODIM 2EC HERBICIDE TANK MIX

Roundup Ready Volunteer Corn Height (Inches)	Willowood Clethodim 2EC Rate fl oz/A	Glyphosate ⁽¹⁾ rate for formulations with built in adjuvant	Adjuvant
<12	4	1 0 to 2 0 lb ai /A	Non-ionic surfactant @ 0 125

⁽⁴⁾ Certain insecticides may cause temporary phytotoxic symptoms on alfalfa and mint foliage. Refer to the insecticide label for further information. It is suggested that prior to using any of these insecticides/herbicide tank mixtures, that a small area of the field be treated first and observations for crop injury be made prior to treating the whole field.

Roundup Ready Volunteer Corn Height (Inches)	Willowood Clethodim 2EC Rate fl oz/A	Glyphosate ⁽¹⁾ rate for formulations with built in adjuvant	Adjuvant
12 to 18	5	(Approximately equivalent to 22 to 44 fl. oz /A of	to 0 25% v/v plus ammonium sulfate @ 8 5 to 17 lbs per
18 to 24	6	ROUNDUP Weather MAX)	100 gals /of carrier

Roundup Ready Volunteer Corn Height (Inches)	Willowood Clethodim 2EC Rate fl oz /A	Glyphosate ⁽¹⁾ rate for formulations without built in adjuvant	Adjuvant
<12	4	Up to 2 0 lb ai /A (Equivalent to 32 to 64 fl	Crop oil concentrate @ 1 pt /A plus ammonium sulfate
12 to 18	5	oz /A of ROUNDUP	@ 8 5 to 17 lbs per 100 gals
18 to 24	6	Original)	of carrier

⁽¹⁾ Glyphosate formulation must be labeled for use on Roundup Ready soybean

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label
- Apply under favorable soil moisture and humidity which exist a few days after rainfall or within seven days after irrigation
- Tank mix applications may sometimes result in reduced grass control. If regrowth occurs or an
 additional flush of new grass emerges, make a second application of Willowood Clethodim 2EC as
 specified in the respective size and rate tables.
- Do not tank mix Willowood Clethodim 2EC when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage
- This tank mix may be applied postemergence to ROUNDUP READY soybean up through the full flowering stage. Do not apply less than 60 days before harvest
- Avoid contact with foliage green stems or fruit of crops or any desirable plants and trees other than soybean with the ROUNDUP READY gene as severe injury or destruction will result
- Do not allow the Willowood Clethodim 2EC plus ROUNDUP to mist drip drift or splash onto
 desirable vegetation as minute quantities of the tank mix can cause severe damage or destruction to
 the crops plants or other areas on which treatment was not intended. The likelihood of injury
 occurring from drift of this product is greatest when winds are gusty or in excess of 5 miles per hour
 Even under lesser wind velocities, avoid conditions that allow spray drift to occur such as
 combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to
 drift

FALLOW LAND

DIRECTIONS FOR USE

Willowood Clethodim 2EC may be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply Willowood Clethodim 2EC at 6 to 8 fl. oz /A for annual grasses and 8 to 16 fl. oz /A for perennial grasses. When both grass and broadleaf weeds are the target pest. Willowood Clethodim 2EC may be tank mixed with 2 4-D ester or BANVEL® SGF for broad spectrum control. When both annual and perennial grasses occur in the same field use a minimum of 8 fl. oz /A Willowood Clethodim 2EC rate.

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PRODUCT INFORMATION

- Use a minimum spray volume of 5 gals /A for aerial applications and 15 gals /A for ground applications
- Apply only to actively growing grasses when the first grass reaches the recommended weed height as specified by the Annual and Perennial Grasses section of this label
- Annual grasses that emerge after the Willowood Clethodim 2EC application will not be controlled and a second application may be necessary
- The control of perennial grasses may require more than 1 application in non-tilled areas
- Do not plant any crop for 30 days after application unless clethodim is registered for use in that crop
- Do not apply to grasses that have tillered formed seedheads or exceeded recommended growth stage
- Do not use flood jet nozzles
- Do not apply to drought stressed grasses
- Do not mow area for 2 weeks prior to or after the Willowood Clethodim 2EC application

Table 18 WILLOWOOD CLETHODIM 2EC IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

PRODUCT	APPLICATION RATES/ACRE ⁽¹⁾		CROP OIL CONCENTRATE ⁽³⁾ (V/V)	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
Willowood Clethodim		8 to 16 fl oz	1%	1%
2EC	6 to 8 fl oz			
+	+			
2 4-D ester	0 5 lb /A			
or	or			
BANVEL SGF	See BANVEL SGF label for rates			

⁽¹⁾ Refer to Willowood Clethodim 2EC label for weed height and species control. Review BANVEL SGF and 2 4-D labels for crop restrictions use rates and weeds controlled

Always use a crop oil concentrate or methylated seed oil containing at least 15% emulsifier at the listed rate (but not less than 1 pt /A) in the finished spray volume

GRASS SUPPRESSION IN NON-CROP AREAS WITH WILLOWOOD CLETHODIM 2EC				
GRASS SPECIES	WEED STAGE	RATE FL OZ/ ACRE	HIGH RATE	
Annual and perennial grasses that exceed height claimed for control on height charts above	Up to and including grasses in the seed head stage	12	16	
.	stage			

Table 19 WILLOWOOD CLETHODIM 2EC FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

Add a crop oil concentrate at 1 gt /A by ground to the finished spray volume

PRODUCT PRODUCT RATES GRASS WEEDS CONTROLLED/SUPPRE			WEED	
PRODUCT	PRODUCTRATES	Common Name	Scientific Name	STAGES
Willowood Clethodim 2EC	10 to 12 fl oz /A	Tall Fescue	Festuca arundınacea	4 to 6 inches tall (40 to 60% green-up)

grade ammonium sulfate at 2 5 to 4 lbs /A Mixing Order Thoroughly mix spray grade ammonium sulfate in water add Willowood Clethodim 2EC then add crop oil concentrate

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring at 40 to 60% tall fescue green-up prior to emergence of warm-season grasses. Do not mow area for 2 weeks after the Willowood Clethodim 2EC application.

Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 PSI at the nozzle Apply using flat fan or hollow cone nozzles. Do not use flood jet nozzles

Apply only to fields that have warm-season grasses established for 2 years Applications of Willowood Clethodim 2EC to emerged warm-season grasses may cause injury Do not apply to warm-season grasses grown for seed

Do not graze treated fields or feed treated forage and or hay to livestock. Do not plant any crop for 30 days after application, unless clethodim is registered for use in that crop

NOTE Willowood Clethodim 2EC applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47°F

Table 20 WILLOWOOD CLETHODIM 2EC FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATE	SUPPRESSION	APPLICATION TIMING
Willowood Clethodim	1 1/2 to 2 fl oz /A	Tall Fescue Seed-Heads	(50 to 90% Tall Fescue
2EC		(Festuca arundınacea)	green up)
AD III/ANT Willowood Clothodim 2EC must be applied with even oil concentrate at 1 at /A plus a spray			

ADJUVANT Willowood Clethodim 2EC must be applied with crop oil concentrate at 1 qt /A plus a spray grade ammonium sulfate at 2 5 to 4 lb /A **Mixing Order** Thoroughly mix spray grade ammonium sulfate in water add Willowood Clethodim 2EC Herbicide then add crop oil concentrate

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Apply at 50 to 90% tall fescue green-up

Use the higher Willowood Clethodim 2EC rate if less tall fescue green matter is present

Do not mow area for two weeks after the Willowood Clethodim 2EC application

Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 psi at the nozzle Apply using flat fan or hollow cone nozzles. Do not use flood nozzles

2 4-D ester may be added to this tank mix for broadleaf control (see 2 4-D ester label for weeds controlled)

Do not graze treated fields or feed treated forage and/or hay to livestock. Do not plant any crop for 30 days after application unless clethodim is registered for use in that crop

DIRECTIONS FOR USE IN ORNAMENTALS

For ornamental plant uses Willowood Clethodim 2EC can be used to control labeled grass weeds in greenhouses bathhouses shadehouses and around outdoor ornamentals including nurseries parks roadside plantings and structure landscapes

IMPORTANT

Willowood Clethodim 2EC successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to Willowood Clethodim 2EC at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of Willowood Clethodim 2EC have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for Willowood Clethodim 2EC applications

ORNAMENTAL TREES

COMMON NAME	SCIENTIFIC NAME
Alder Red	Alnus rubra
Ash	Fraxınus spp
Basswood	Tilia spp
Birch European White	Betula pendula
Birch River	Betula nıgra
Birch White	Betula papyrıfera
Crabapple Flowering	Malus hallıana
Dogwood Flowering	Cornus florida
Golden Chain Tree	Laburnum anagyroides
Maples	Acer spp
Mulberry White	Morus alba
Oaks	Quercus spp
Olive Wild	Elaeagnus angustifolia
Redbud Eastern	Cercis Canadensis
Sweet Gum American	Lıquıdambar styracıflua

GROUND COVERS

COMMON NAME	SCIENTIFIC NAME
Bugleweed Carpet	Ajuga reptans
Ivy English	Hedera helix
Japanese Spurge	Pachysandra terminalis
Lilyturf	Liriope muscari
Moneywort	Lysimachia nummularia
Mondo Grass White	Ophiopogon jaburan
Mondo Grass Dwarf	Ophiopogon japonicas
Periwinkle Lesser	Vinca minor

GARDEN FLOWERS AND PLANTS

COMMON NAME	SCIENTIFIC NAME
Ageratum	Ageratum spp
Alyssum* Sweet	Lobularia maritima
Asparagus Fern	Asparagus setaceus
Bleeding Heart	Dicentra spectabilis
Cast Iron Plant	Aspidistra elatior
Chrysanthemum	Chrysanthemum spp
Cinquefoil	Potentilla spp
Coleus	Coleus spp
Coralbells	Heuchera sanguinea
Cranesbill	Geranium spp
Dahlia	Dahlia spp

COMMON NAME	SCIENTIFIC NAME
Daisy Trailing African	Osteospermum fruticosum
Daylily	Hemerocallis spp
Dusty Miller	Senecio cineraria
Euonymus	Euonymus spp
Gazania	Gazanıa spp
Geranium House	Pelargonium hortorum
Heather False	Cuphea hyssopifolia
Hosta	Hosta fortunei
Iris	Iris spp
Jasmine Tobacco	Nicotiana alata
Loosestrife	Lythrum salıcarıa
Marigold	Tagetes spp
Partridgeberry	Mıtchella repens
Petunia*	Petunia hybrida
Phlox	Phlox spp
Pinks	Dianthus spp
Portulaca	Portulaca grandıflora
Salvia	Salvia spp
Saxıfrage	Saxıfrage spp
Sedum	Sedum spp
Selloum	Philodendron selloum
Snapdragon*	Antırrhınum majus
Sweet Flag	Acorus gramineus
Tickseed	Coreopsis grandiflora
Touch-Me-Not	Impatiens spp
Verbena	Verbena spp
Violet	Viola spp
Yarrow Common	Achillea millefolium
Zinnia	Zınnıa elegans

^{*} Slight foliage or flower speckling has been observed on these species

SHRUBS

COMMON NAME	SCIENTIFIC NAME
Abelia	Abelia spp
Anise Purple	Illıcıum floridanum
Aucuba	Aucuba spp
Azalea*	Rhododendron spp
Bamboo	Bambusa spp
Barberry Japanese	Berberis thunbergii
Barberry Magellan	Berberis buxifolia
Bayberry	Myrica pensylvanica
Bottlebrush	Callistemon citrinus
Boxwood Common	Buxus sempervirens
Camellia Common	Camellia japonica
Candytuft	Iberis sempervirens
Cleyera	Cleyera japonica
Coralberry	Ardısıa crenata
Crape Myrtle	Lagerstroernia indica
Coyote Brush	Baccharis pilularis
Fig Creeping	Ficus pumila
Gardenia	Gardenia spp
Holly	lles spp
Honeysuckle	Lonicera spp

COMMON NAME	SCIENTIFIC NAME
Indian Hawthorn	Raphiolepis indica
Jasmine	Jasminum spp
Jasmine Asiatic	Trachelospermum asiaticum
Jasmine Star	Trachelospermum jasminoides
Juniper	Juniperus spp
Lantana	Lantana spp
Nandina* Bamboo Heavenly	Nandınıa domestica
Oleander Common	Nerium oleander
Oregon Grape	Mahonia aquifolium
Photinia	Photinia spp
Pittosporum	Pittosporum spp
Podocarpus	Podocarpus spp
Privet	Ligustrum spp
Pyracantha	Pyracantha spp
Rhododendron	Rhododendron spp
Rose	Spıraea bumalda
Sweet Olive	Osmanthus fragrans
Viburnum	Viburnum tinus
Wisteria	Wisteria spp
Yellow Sage/Shrub Verbena	Lantana camara

^{*} Slight foliage or flower speckling has been observed on these species

ANNUAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at recommended weed heights
- Apply when the first grass weed species in a mixed grass and weed population reaches the recommended growth stage for treatment

Use the high rate under heavy grass pressure and/or when grasses are at maximum height

GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT INCHES	RATE FL OZ/ACRE ⁽¹⁾	HIGH RATE ⁽²⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	8	16
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	8	16
Brome				
California	Bromus carınatus	2 to 6	8	16
Cheat	Bromus secalinus	2 to 6	8	16
Downy	Bromus tectorum	2 to 6	8	16
Ripgut	Bromus diandrus	2 to 6	8	16
Canarygrass	Phalaris canariensis	1 to 4	8	16
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	8	16
Large	Digitaria sanguinalis	2 to 6**	8	16
Smooth	Digitaria ischaemum	2 to 6**	8	16
Southern	Digitaria ciliaris	2 to 6**	8	16
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	8	16
Fall Panicum	Panicum dichotomiflorum	2 to 8	8	16
Field Sandbur	Cenchrus incertus	2 to 6	8	16
Foxtail				
Giant	Setarıa faberı	2 to 12	8	16
Green	Setaria viridis	2 to 8	8	16
Yellow	Setarıa glauca	2 to 8	8	16
Goosegrass	Eleusine indica	2 to 6**	8	16
Itchgrass	Rottboellia cochin	2 to 6	8	16
Junglerice	Echinochloa colona	2 to 6	8	16

GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT INCHES	RATE FL OZ /ACRE ⁽¹⁾	HIGH RATE ⁽²⁾
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	8	16
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	8	16
Red Rice	Oryza satıva	1 to 3	8	16
Ryegrass				
Hardy	Lolium remotum	2 to 6	8	16
Italian	Lolium multiflorum	2 to 6	8	16
Seedling Johnsongrass	Sorghum halepense	4 to 10	8	16
Shattercane	Sorghum bicolor	6 to 18	8	16
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	8	16
Sprangletop				
Amazon	Leptochloa panicoides	2 to 6	8	16
Bearded	Leptochloa fascicularis	2 to 6	8	16_
Mexican	Leptochloa uninervia	2 to 6	8	16
Red	Leptochloa filiformis	2 to 6	8	16
Texas Panicum	Panicum texanum	2 to 6	8	16
Volunteer Cereals				
Barley	Hordeum vulgare	2 to 6	8	16
Oats	Avena satıva	2 to 6	8	16
Rye	Secale cereale	2 to 6	8	16
Wheat	Triticum aestivum	2 to 6	8	16
Volunteer Corn	Zea mays	4 to 12	6	8
Volunteer Corn	Zea mays	12 to 24	8	16
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	8	16
Wild Oats	Avena fatua	2 to 6	8	16
Wild Proso Millet	Panicum miliaceum	2 to 10	8	16
Witchgrass	Panicum capillare	2 to 8	8	16
Woolly Cupgrass	Eriochloa villosa	2 to 8	8	16

^{*} Generally occurs between 3-leaf stage and tillering

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt $\,$ per 50 gals $(0.25\% \,$ v/v)

ANNUAL BLUEGRASS CONTROL WITH WILLOWOOD CLETHODIM 2EC IN ORNAMENTALS				
GRASS SPECIES	WEED STAGE	RATE FL OZ/ ACRE	HIGH RATE	
Annual Bluegrass (Poa annua)	to 4-leaf	6	16	

Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s)

Apply at weed stage indicated on the label as reduced control can be expected with more mature annual bluegrass

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0 25% v/v)

^{**} Length of lateral growth

^{(1) 8} fl oz /A = approximately 0 2 fl oz /1000 sq ft

^{(2) 16} fl oz /A = approximately 0 4 fl oz /1000 sq ft
Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1

PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment

Use the high rate under heavy grass pressure and/or when grasses are at maximum height

GRASS SPECIES	WEED HEIGHT (inches)	FL OZ / ACRE ⁽¹⁾	HIGH RATE ⁽²⁾
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6 runners)	8	16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6 runners)	8	16
Quackgrass (Elytrigia repens)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Rhizome Johnsongrass (Sorghum halepense)			
First Application	12 to 24	8	16
Repeat Application(s) (if regrowth occurs)	6 to 18	6	8
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16

 $^{^{(1)}}$ 8 fl oz /A = approximately 0 2 fl oz /1000 sq ft

(2) 16 fl oz /A = approximately 0 4 fl oz /1000 sq ft
Add a non ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals
(0 25% v/v)

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage disposal or cleaning of equipment Open dumping is prohibited

PESTICIDE STORAGE

Keep pesticide in original container Do not put concentrate or dilute into food or drink containers Store in cool dry place Do not store diluted spray

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER HANDLING [NONREFILLABLE CONTAINERS]

Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying

(Nonrefillable plastic container ≤ 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 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning. If burned stay out of smoke

(Nonrefillable plastic container > 5 gallons) 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning. If burned stay out of smoke

(Nonrefillable metal container > 5 gallons) 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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

[REFILLABLE CONTAINERS]

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 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

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