

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 1, 2021

Rebecca A. Clemmer Sr. Regional Regulatory Manager UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject: Registration Review Label Mitigation for Clethodim Product Name: CLETHODIM 2EC HERBICIDE EPA Registration Number: 70506-476 Application Date: July 9, 2021 Decision Number: 561152

Dear Ms. Clemmer:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Clethodim Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Page 2 of 2 EPA Reg. No. 70506-476 Decision No. 561152

If you have any questions about this letter, please contact DeMariah Koger by phone at (703)-347-0425, or via email at <u>koger.demariah@epa.gov</u>.

Sincerely,

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Linda Arrington, Branch Chief Risk Management and Implementation Branch 4 Pesticide Re-Evaluation Division Office of Pesticide Programs

Enclosure

[Text in brackets is optional]

CLETHODIM GROUP 1 HERBICIDE

CLETHODIM 2EC HERBICIDE

ACTIVE INGREDIENT:	<u>% BY WT.</u>
*Clethodim	
OTHER INGREDIENTS**:	<u>73.6%</u>
TOTAL:	
*(E)-2[1-[[(3-chloro-2-propenyl)oxy]limino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-	-2-cyclohexen-1-
one	
**Contains Petroleum Distillates	
Contains: 2.0 lbs Clethodim per gallon	

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

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.)

See [front][back][side][inside] panel for First Aid Instructions and [Leaflet][Booklet] for complete Precautionary Statements and Directions for Use.

	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.		
	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. 			
NOTE TO PHYSICIAN:	Contains petroleum distillate. Vomiting may cause aspiration pneumonia.		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL Rocky Mountain Poison and Drug Safety: 1-866-673-6671.

FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.

For Product Use Information Call 1-800-438-6071

EPA Reg. No. 70506-476

xxxxxXV001

[Batch Code will be placed on the container.]

UPL NA Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

ACCEPTED

EPA Est. No.:

NET CONTENTS:

Dec 01, 2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 70506-476

Page 1 of 44

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- 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

User Should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and change into 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.

NON-TARGET ORGANISM ADVISORY STATEMENT

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

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 area 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

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.

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;
- 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 or allow other persons to enter treated areas without protective clothing until sprays have dried.

GENERAL INFORMATION

This product is for use on the following:

Soybeans, Cotton, Ornamentals, Sugar Beets, Onions (dry bulbs and green), Garlic, Shallots (dry bulbs and green), Alfalfa, Peanuts, Dry Yam (and other Tuberous¹ and Corm¹ Vegetables), Tomatoes, Peppers (bell and non-bell), Eggplant (and other Fruiting Vegetables), Carrot, Radish, Garden Beet, Horseradish (and other Root Vegetables²), Leaf Lettuce, Broccoli, Cabbage, Cauliflower (and other Head and Stem Brassica Vegetables³), Mustard Greens (and other Leafy Brassica Greens⁴), Spinach, Celery, Rhubarb (and other Leaf Petioles⁵), Cranberry, Strawberry, Squash (including Pumpkins), Cucumber, Melons (including Cantaloupes and Watermelons), Mint, Clover (grown in Idaho, Oregon and Washington only), Conifer Trees, Non-bearing Food Crops, Fallow Land (and other non-producing agricultural areas), and Non-crop or Non-planted areas.

- 1. Other tuber and corm vegetables approved for use with this product 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.
- 2. Other root vegetables approved for use with this product include the following: burdock, edible; celeriac; chervil, turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and kohlrabi.
- 3. Other approved head and stem Brassica vegetables approved include: Chinese broccoli; Brussels sprouts; Chinese (napa) cabbage; Chinese mustard; cavalo broccolo;and kohlrabi.
- Other leafy Brassica greens approved for use with this product include: broccoli raab, cabbage, Chinese (bok choy); collards; kale, mizuna, mustard greens; mustard spinach; rape greens and turnip greens.

5. Other leaf petiole crops include: cardoon, Chinese celery, celtuce, Florence fennel, and swiss chard.

USE RESTRICTIONS

- Maximum annual application rate is 1.04 lbs ai/A.
- Maximum number of applications is 4.
- Aerial applications for all tree fruits and tree nuts uses are prohibited.

Herbicide Resistance Management

For resistance management, **Clethodim 2EC Herbicide** is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to **Clethodim 2EC Herbicide** and other Group 1 herbicides. Weed species with acquired resistance to Group 1 may eventually dominate the weed population if Group 1 herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of **Clethodim 2EC Herbicide** or other Group 1 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field. Whenever possible incorporate multiple weed control practices including mechanical cultivation, biological management practices, and crop rotation.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout fields before application to identify the weed species present and their growth stage to determine if the intended application will be effective. Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method including hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue
 use of this product and switch to another management strategy or herbicide with a different
 mode of action (MOA), if available. Treat weed escapes with an herbicide with a different
 MOA or use non-chemical methods to remove escapes. To the extent possible do not allow
 weed escapes to produce seeds, roots, or tubers.
- Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of action for each target weed. Contact UPL NA at 1-800-438-6071.

This product is a selective postemergence herbicide for control of annual and perennial grasses. CLETHODIM 2EC does not control sedges or broadleaf weeds and is not recommended for use on vegetable crops being grown for seed production unless specific instructions are included in this labeling.

Repeated use of **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. Biotypes are naturally occurring individuals of a species that are identical in appearance but have slightly different genetic compositions; the mode of action of a herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development.

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

Contact of this product with desirable grass crops, such as corn, rice, sorghum, small grains, or turf should be avoided as these and other grass crops will be injured or killed. Minor leaf spotting can occur on treated plants under certain environmental conditions. New foliage is not affected.

SYMPTOMS OF CONTROL

The 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. Depending on grass species treated and environmental conditions, symptoms will generally be observed in 7 to 14 days after application.

APPLICATION INFORMATION

Timing

Make application of **CLETHODIM 2EC** postemergence to actively growing grasses according to the rate table recommendations. Do not make application to grass plants stressed by insufficient moisture or hot or cold temperature. Applications to grass plants exceeding recommended growth stages could result in unsatisfactory control. Do not make applications when this occurs.

When irrigation is used to supplement limited rainfall in arid regions, **CLETHODIM 2EC** should be applied as soon as possible, after an irrigation (within 7 days). A second application of this product will generally provide more effective control of perennial grass weed than a single application in arid regions. Apply a 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 this product could reduce weed control. DO NOT APPLY if rainfall is expected within one hour as control may be reduced.

ADJUVANT OR CROP OIL CONCENTRATE RECOMMENDATIONS

Soybeans, Alfalfa, Dry Bean, Cotton, Peanut, Sugar Beet, Sunflower, Potato: 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. 1 to 2 qts/A liquid fertilizer (10-34-0, 28% N or 32% N) or an equivalent amount of spray grade ammonium sulfate (AMS) (2.5 to 4.0 lbs/A) can be added to **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, red rice, rhizome Johnsongrass, volunteer cereals, volunteer corn and wild oats.

*Crop oil concentrates that are acceptable would be those that contain a minimum of 80% oil and 15% emulsifier. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: (a) 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.

Onions (dry bulbs and green), Garlic Shallots (dry bulbs and green), Carrot, Radish, Garden Beet, Horseradish (and other Root Vegetables), Leaf Lettuce, Broccoli, Cabbage, Cauliflower (and other Head and Stem Brassica Vegetables), Mustard Green (and other Leafy Brassica Greens), Spinach, Celery, Rhubarb (and other Leaf Petioles), Cranberry, Sweet Potatoes, Yams (and other tuberous and corm vegetables), Canola, Flax, Mustard Seed, Tomatoes, Peppers (bells and non-bell), Eggplants (and other fruiting vegetables), Strawberry, Squash (including Pumpkins), Cucumber, Melons (including Cantaloupes and Watermelons), Mint and Clover: **Unless tank-mix instructions indicate otherwise, always use a crop oil concentrate at 1% v/v in the finished spray volume.** The addition of a liquid fertilizer is not recommended for these crops.

Ornamental Plants and Non-Bearing Food Crops: Add a nonionic surfactant containing at least 80% active ingredient at the rate of 1 pint per 50 gallons (0.25% v/v). The use of a crop oil concentrate is not recommended as it could injure flowers and foliage.

Conifer Trees, Fallow Land (and other non-producing agricultural areas), 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.

GROUND APPLICATION

To ensure complete coverage, it is essential to use sufficient spray volumes and pressure. Use a minimum of 5 gallons and a maximum of 40 gallons of spray solution per acre. A minimum of 10 gallons per acre is required under the following conditions: 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 gallons per acre under these conditions can result in poor coverage and reduced grass control requiring repeat application. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

A minimum application of 20 gallons of spray solution per acre should be made to onions (dry bulbs and green), garlic and shallots (dry bulbs and green).

AIR APPLICATION

Use a minimum of 3 gallons of spray solution per acre unless otherwise directed in this label. If grass or crop foliage becomes dense, increase spray volumes up to 10 gallons.

For onions (dry bulbs and green), garlic or shallots (dry bulbs and green): Do not exceed 8 fl oz/A in a single application when applying by air. In California when applying by air to onions, garlic or shallots application should be made in a minimum of 20 gallon spray solution per acre.

NOTE: Crop injury can occur when this product is applied to onions, garlic or shallots with aerial equipment.

Spot Treatment

Mix 1/4% to 1/2% (0.33 oz to 0.65 oz per gal) product when using hand sprayers or high-volume sprayers utilizing hand guns. While not allowing runoff of spray solution, apply to wet vegetation. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz per gal) by volume. For uses requiring nonionic surfactant, include nonionic surfactant at 1/4% (0.33 oz per gal) by volume.

NOTE: If **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 could occur.

CHEMIGATION – ONIONS (Dry Bulbs and Green) AND GARLIC

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.

SPRINKLER IRRIGATION APPLICATION

DO NOT APPLY THIS PRODUCT BY CHEMIGATION IN THE STATES OF IDAHO, MONTANA, OREGON AND WASHINGTON.

Apply **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 oil concentrate containing at least 15% emulsifier at 1 quart per acre.

Make application of **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 **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.

General Precautions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have 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 pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation Precautions

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 back flow.

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 closed, 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.

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.

Chemigation Systems Connected to Public Water Systems

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 regular serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reducedpressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. 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 contain a functional, normally closed, 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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, 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

Tank-mixes of **CLETHODIM 2EC** and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of this product may be necessary.

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

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 **CLETHODIM 2EC** or reduced grass control may result.

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

Do not apply more than 8 fl oz/A of **CLETHODIM 2EC** per application to the following crops: garden beets, carrots, radish (and other root vegetables), green onions, leaf lettuce, broccoli, cabbage, cauliflower (and other head and stem Brassica vegetables), celery, rhubarb (and other leaf petioles), cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry. Do not apply more than 6 fl oz/A of this product per application to canola or mustard seed. Exceeding these recommendations could result in unacceptable crop injury.

This product is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.

Do not apply more than 16 fl oz of **CLETHODIM 2EC** (0.25 lb/ai) per acre per season for canola, clover, flax, mustard seed and radish crops. Do Not apply more than 32 fl oz of **CLETHODIM 2EC** (0.50 lb/ai) per acre per season for all other crops. Application on Long Island, New York is restricted to no more than 16 fl oz of **CLETHODIM 2EC** (0.25 lb/ai) per acre per season.

While all the vegetable crops on this label have been tested and are tolerant to **CLETHODIM 2EC**, not all specialty varieties of these crops have been tested. Before applying **CLETHODIM 2EC** to specialty varieties of vegetable crops on this label, it is advised that 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.

Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (disking, 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. No fewer than two (2) **CLETHODIM 2EC** applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions, due to this non-uniform weed emergence.

Grass crops such as corn, rice, sorghum, small grains, or turf, etc. are highly sensitive to **CLETHODIM 2EC**.

SPRAY DRIFT

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplane or 75% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Ground Boom Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 3 feet from the target vegetation.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

• Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

CROPS ⁽¹⁾	MINIMUM TIME	USE RATES PER	CROP OIL	SPECIAL USE
	FROM	ACRE	CONCENTRATE	INSTRUCTIONS
	APPLICATION		RATES PER	
	TO HARVEST		ACRE ⁽²⁾	
	(PHI)			
Alfalfa including:	15 days before	6 – 16 fl oz ⁽⁴⁾	1 qt. By ground or	Do not plant rotational crops
Sainfoin	grazing, feeding		1% v/v, but not less	until 30 days after application of
Holy Clover	or harvesting		than 1 pt/A, by air ⁽⁵⁾	CLETHODIM 2EC ⁶ .
Birdsfoot trefoil (3)	(cutting) for forage			
	or hay			Adding AMS has shown
				improved grass control for
				difficult to control species
				including: quackgrass, red rice,
				rhizome Johnsongrass,
				volunteer cereals, volunteer
				corn and wild oats

RECOMMENDED USE RATES/RESTRICTIONS/LIMITATIONS

Beans, Dry	30 days	6 – 16 fl oz	1 qt. By ground or 1% v/v, but not less than 1 pt/A, by air ⁽⁵⁾	For reduced rate recommendations for the control of small annual grasses, refer to the appropriate Table. Adding AMS has shown improved grass control for difficult to control species including; quackgrass, red rice, rhizome Johnsongrass, volunteer cereals, volunteer corn and wild oats.
Beets, 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. A minimum 14-day interval required for repeat applications.
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. A minimum 14-day interval required for repeat applications.
Canola	70 days	4 – 6 fl oz	1% v/v in the finished spray volume	Do not apply after crop has begun bolting. Do not exceed 16 fl oz/A in a season. Crop injury could occur when this product is applied during the bloom period
Celery including: Cardoon Chinese celery Celtuce Florence fennel Swiss chard	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. A minimum 14-day interval required for repeat applications.

	<u> </u>			
Clover	15 days before	6 – 16 fl oz	1% v/v in the	Do not exceed 16 fl oz/A in a
	grazing, feeding,		finished spray	season.
	or harvesting		volume	
	(cutting) for forage			For use on clover grown in
	or hay			the states of Idaho, Oregon
				and Washington only.
Cotton	60 days	6 – 16 fl oz	1 qt. by ground or	Do not graze treated fields or
			1% v/v, but not less	feed treated forage or hay to
			than 1 pt/A, by air ⁽⁵⁾	livestock.
				Adding AMS has shown
				improved grass control for
				difficult to control species
				including; quackgrass, red rice,
				rhizome Johnsongrass,
				volunteer cereals, volunteer
				corn and wild oats.
Cranberry	30 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
			finished spray	in a single application.
			volume	
				Do not apply between the
				"hook" stage and full fruit set.
				A minimum 14-day interval
		0.01	40/ / : //	required for repeat applications.
Cucurbits,	14 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
including:			finished spray	in a single application.
Cantaloupes (all) Cucumber			volume	A minimum 14 dov interval
Gherkin				A minimum 14-day interval
Honeydew Melon				required for repeat applications.
Muskmelons (all)				
Pumpkins				
Squash (all)				
Watermelon				
Fallow Land	N/A	6 – 16 fl oz	1% v/v, but not less	Do not plant any crop for 30
Conifer Trees		0 10 11 02	than 1 pt/A, in the	days following application
(and other non-			finished spray	unless clethodim is registered
producing			volume using a crop	for use on that crop
agricultural areas)			oil concentrate	
Non-Crop or Non-			containing at least	
Planted areas			15% emulsifier.	
Flax	60 days	6 – 8 fl oz	1% v/v in the	Do not exceed 16 fl oz in a
			finished spray	season
			volume	
				Make application prior to bloom.
				If applied during bloom, crop
				injury could occur.
Fruiting Vegetables	20 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
(except Tomato)			finished spray	in a single application.
including:			volume	
Eggplant				A minimum 14-day interval
Groundcherry				required for repeat applications.

	1	1	1	1
Pepino				
Peppers (all)				
Tomatillo				
Head & Stem	30 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
Brassica			finished spray	in a single application.
Vegetables,			volume	
including:				A minimum 14-day interval
Broccoli				required for repeat applications.
Cabbage				
Cauliflower				
Brussels Sprouts				
Leafy Brassica	14 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
Greens, including:			finished spray	in a single application.
Broccoli Raab			volume	
Cabbage,			Volume	A minimum 14-day interval
Chinese (Bok				required for repeat applications.
Choy)				required for repeat applications.
Collards				
Kale				
Mizuna				
Mustard Greens				
Mustard Spinach				
Rape Greens				
Turnip Greens				
Leaf Lettuce	14 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
			finished spray	in a single application.
			volume	
				A minimum 14-day interval
				required for repeat applications.
Mint	21 days	6 – 16 fl oz ⁽⁴⁾	1 qt by ground or	Do not apply more than 16 fl
			1% v/v, but not less	oz/A in a single application.
			than 1 pt/A, by air	
				A minimum 14-day interval
				required for repeat applications.
Mustard Seed	75 days	4 – 6 fl oz	1% v/v in the	Do not apply more than 16 fl oz
			finished spray	in a season.
			volume	
				Do not apply after crop has
				begun bolting. If applied during
				the bloom period, crop injury
				could occur.
Onions (Dry Bulbs	45 days	6 – 16 fl oz ^{(7) (8)}	1% v/v in the	Minimum 20 gals/A spray
Only)			finished spray	volume by ground in entire U.S.
Garlic			volume	
Shallots (Dry Bulbs				Minimum 20 gals/A spray
Only)				volume by air in California. ⁽⁹⁾
				States Other than California:
				Application by air to onions,
				garlic or shallots should be
				made in a minimum of 10
				gals/A.
			L	yais/A.

Onions, Green,	14 days	6 – 8 fl oz	1% v/v in the	Do not apply more than 8 fl oz/A
including:			finished spray	in a single application.
Leeks Scallions or Spring Onions Japanese			volume	A minimum 14-day interval required for repeat applications.
Bunching Onions				
Green Shallots Green Eschalots				
Ornamentals	N/A	6 – 16 fl oz	Use of crop oil	Add a nonionic surfactant
Non-Bearing Food	N/A	$6 - 8 \text{ fl oz}^{(8)}$	concentrate is not	containing at least 80% active
Crops		0 - 0 11 02.0	recommended as injury to flower and foliage may occur. See Special Use	ingredient at the rate of 1 pt per 50 gallons (0.25% v/v). Sugar Maples cannot be tapped
			Instructions.	for syrup within one year of application.
Peanut	40 days	6 – 16 fl oz	1 qt by ground or 1% v/v, but not less than 1 pt/A, by air ⁽⁵⁾	Adding AMS has shown improved grass control for difficult to control species including; quackgrass, red rice, rhizome Johnsongrass, volunteer cereals, volunteer corn and wild oats.
Potato	30 days	6 – 16 fl oz	1 qt by ground or 1% v/v, but not less than 1 pt/A, by air ⁽⁵⁾	Adding AMS has shown improved grass control for difficult to control species including; quackgrass, red rice, rhizome Johnsongrass, volunteer cereals, volunteer corn and wild oats.
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 (0.25 lb/ai) per acre in a season. A minimum 14-day interval required for repeat applications.
Root Vegetables (except Radish), including: Chicory Ginseng Horseradish Turnip	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. A minimum 14-day interval required for repeat applications.
Rhubarb	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. A minimum 14-day interval required for repeat applications.

	1	1	1	1
Soybean	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.
				Refer to appropriate Table for reduced rate recommendations for the control of small annual grasses.
				Adding AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, volunteer cereals, volunteer corn and wild oats.
Spinach	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. A minimum 14-day interval
Strawberry	4 days	6 – 8 fl oz	1% v/v in the finished spray volume	required for repeat applications. Do not apply more than 8 fl oz/A in a single application. A minimum 14-day interval required for repeat applications.
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 the appropriate Table for reduced rate recommendations for the control of small annual grasses. Adding AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, volunteer cereals, volunteer corn and wild oats.
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⁾	Adding AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, volunteer cereals, volunteer corn and wild oats.
Sweet Potato, Yam and other tuberous and corm vegetables (except Potato), including: Artichoke Chinese Jerusalem	30 days	6 – 16 fl oz	1% v/v in the finished spray volume	Adding AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, volunteer cereals, volunteer corn and wild oats.

Cassava, bitter, sweet Ginger				
Tomato	20 days	6-16 fl oz	1% v/v in the finished spray volume	

N/A – Not Applicable

- CLETHODIM 2EC is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.
- (2) Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier. The crop oil concentration must contain either a petroleum or vegetable oil base and meet all the following criteria: a) contain only EPA-exempt ingredients, b) be non-phytotoxic, c) provide good mixing quality and d) be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oil. For further information see the "Addition of Adjuvant and Crop Oil Concentrate" section.
- (3) This product can be applied to seedling or established alfalfa grown for seed, hay, silage, green chop or direct grazing.
- (4) The minimum use rate is 10 fl oz/A for weed control in established alfalfa and mint.
- (5) In addition to the recommended rate of crop oil concentrate, 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 the CLETHODIM 2EC application.
- (6) Do not apply **CLETHODIM 2EC** and 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.
- (7) Do not exceed 8 fl oz/A in a single application for ground applications to garlic or shallots.
 Do not exceed 8 fl oz/A in a single application for air applications to onion, garlic or shallots.
 Do not exceed 2 applications per season for garlic and shallots.
 In CA, do not exceed 2 applications per season for air applications to onions.
- (8) Care should be taken to not exceed the maximum rate allowed on a "per acre" basis when CLETHODIM 2EC is applied as a spot treatment to onions, garlic, shallots, or non-bearing food crops or crop injury could occur.
- (9) In CA, do not apply this product to onions, garlic, or shallots until the crop has at least two full leaves. In CA, 14-day spray intervals are recommended between the application of this product and liquid nitrogen or other herbicide applications. Injury to crop could occur when shorter intervals are observed.

DIRECTIONS FOR USE IN SOYBEANS, COTTON, SUGAR BEETS, ONIONS (Dry Bulbs and Green), GARLIC, SHALLOTS (Dry Bulbs and Green), ALFALFA, PEANUTS, DRY BEANS, SUNFLOWER, CANOLA, FLAX, MUSTARD SEED, POTATO, SWEET POTATO, YAM (and other Tuberous1 and Corm1 Vegetables), TOMATOES, PEPPERS (bell and non-bell), EGGPLANTS (and other Fruiting Vegetables), CARROT, RADISH, GARDEN BEET, HORSERADISH (and other Root Vegetables2), LEAF LETTUCE, BROCCOLI, CABBAGE, CAULIFLOWER (and other head and Stem Brassica Vegetables3), MUSTARD GREENS (and other Leafy Brassica Greens4), SPINACH, CELERY, RHUBARB (and other Leaf Petioles5), CRANBERRY, STRAWBERRY, SQUASH (including PUMPKINS), CUCUMBER, MELONS (including CANTALOUPES and WATERMELONS), MINT, and CLOVER (grown in Idaho, Oregon and Washington only), CONIFER TREES, NON-BEARING FOOD CROPS, AND NON-CROP OR NON PLANTED AREAS.

- 1. Other tuber and corm vegetables approved for use with **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, tumeric and bean yam.
- 2. Other root vegetables approved for use with this product include: burdock, edible; celeriac; chervil, turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.
- 3. Other head and stem Brassica vegetables approved include: Chinese broccoli; Brussels sprouts; Chinese (napa) cabbage; Chinese mustard, cavalo broccolo; and Kohlrabi.

- 4. Other leafy Brassica greens approved for use include: broccoli raab, cabbage, Chinese (bok choy); collards; kale, mizuna, mustard greens; mustard spinach; rape greens and turnip greens.
- 5. Other leaf petiole crops include: cardoon, Chinese celery, celtuce, Florence fennel, and Swiss chard.

ATTENTION

Plant tolerance to **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 the herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of **CLETHODIM 2EC** have investigated the safety factor to plants not listed on this label.

NON-BEARING FOOD CROPS DO NOT APPLY CLETHODIM 2EC TO NON-BEARING FRUIT OR NUT CROPS GROWN FOR ROOT STOCK.

If CLETHODIM 2EC is improperly applied, crop injury to non-bearing fruit and nut crops can occur. Do not apply CLETHODIM 2EC directly over the top of these plant types. Rather, direct the spray 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 an application of CLETHODIM 2EC.

COMMON NAME	SCIENTIFIC NAME
Apples	Malus spp.
Berries	Vaccinium spp.
	Rubus spp.
Cherry, Sweet	Prunus avium
Citrus Fruits	Citrus spp.
Grapes	<i>Vitis</i> spp.
Olives	<i>Olea</i> spp.
Peach	Prunus persica
Pears	Pyrus communis
Prunes	Prunus spp.
Stone Fruits	Prunus spp.
Strawberries	<i>Fragaria</i> spp.
Tree Nuts	
Almond	Prunus triloba
Filbert	Corylus maxima
Pecan	Carya illinoinensis
Pistachio	Pistacia vera
Walnut	Juglans spp.

CONIFER TREES

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 heterophylia
Pines	Pinus spp.
Spruces	<i>Picea</i> spp.
Yew	<i>Taxus</i> 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; post-harvest croplands; and beneath greenhouse benches and around golf courses.

RECOMMENATIONS FOR ANNUAL GRASSES

(EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)

- Make application to actively growing grasses at recommended weed heights.
- Make application when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the higher rate under heavy grass pressure and/or when grasses are at maximum heights.
- Do Not apply more than 8 fl oz/A per application to the following crops: Garden beets, carrots, radish (and other root vegetables), green onions, leaf lettuce, broccoli, cabbage, cauliflower (and other head and stem Brassica vegetables), mustard greens (and other leafy Brassica greens), spinach, celery, rhubarb (and other leaf petioles), cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry.
- Do Not apply more than 6 fl oz/A of product per application to canola or mustard seed.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	RATE FL OZ/ ACRE	HIGH RATE ⁽⁴⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	6	8
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	6	8
Brome				
California	Bromus carinatus	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 faberi	2 to 12	6	8
Green	Setaria viridis	2 to 8	6	8
Yellow	Setaria glauc	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 sativa	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
Texas Panicum	Panicum texanum	2 to 6	6	8
Volunteer Cereals ⁽³⁾			·	
Barley	Hordeum vulgare	2 to 6	6	8
Oats	Avena sativa	2 to 6	6	8
Rye	Secale cereale	2 to 6	6	8
Wheat	Triticum aestivum	2 to 6	6	8
Volunteer Corn ⁽²⁾	Zea mays	4 to 12	4	6
Volunteer Corn (S.R.) ⁽¹⁾	Zea mays	4 to 12	8 (sup) only)	pression
Volunteer Corn ⁽²⁾	Zea mays	12 to 24	6	8
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 villosa	2 to 8	6	8

* Generally occurs between 3-leaf stage and tillering.

- ** Length of lateral growth.
- (1) Sethoxydim resistant volunteer corn.
- (2) Includes Roundup Ready[®], Liberty Link[®], and IMI-CORN[®] volunteer corn
- (3) The minimum CLETHODIM 2EC use rate for control when a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment is 8 fl oz/A.
- (4) Where experience has shown that higher rates are needed for satisfactory control of annual grasses, rates higher than 8 fl oz/A may be applied in certain geographic areas, cropping situations, or environmental conditions. In these situations, rates from 8 to16 fl oz/A can be applied. Do not apply more than 8 fl oz/A of CLETHODIM 2EC per application to the following crops:

Garden beets, carrots, radish (and other root vegetables), green onions, leaf lettuce, broccoli, cabbage, cauliflower (and other head and stem Brassica vegetables), celery, rhubarb (and other leaf petioles), cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry.

Do not apply more than 6 fl oz/A of product per application to canola or mustard seed.

RECOMMENDATIONS FOR ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT WITH CLETHODIM 2EC

GRASS SPECIES	WEED STAGE	RATE FL OZ/ ACRE	HIGH RATE
Annual & perennial Grasses Listed in Grass Table	See Table	10	16

Mowing: Achieving the best control of annual grasses can be made by applying **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. Even though these grasses may be an annual grass, they may require repeated application of **CLETHODIM 2EC** for partial or complete control.

Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of **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 an 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: When applying by air in established alfalfa and mint, apply **CLETHODIM 2EC** in a minimum of 10 GPA.

Annual Grass Control: Make application at the grass sizes indicated in the Recommendation for Annual Grass Table and rates indicate. If a grass has been cut, make application after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Make application 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 **CLETHODIM 2EC** may vary from region to region. In addition, some annuals germinate over an extended period of time and because control of small grasses is desired, application 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: 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.

RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH CLETHODIM 2EC					
GRASS SPECIES WEED STAGE RATE HIGH RATE FL/OZ ACRE					
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 ft oz/A to control annual bluegrass in seedling and established alfalfa and mint.

DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET

RECOMMENDATIONS FOR SMALL ANNUAL GRASSES (REDUCED RATE RECOMMENDATIONS NOT FOR USE IN CALIFORNIA)

- Make application only to actively growing grasses and the recommended weed heights.
- Make application 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 platyphylla		1 to 4	5
Crabgrass			
Large	Digitaria sanguinalis	1 to 3*	4
Large	Digitaria sanguinalis	1 to 4*	5
Smooth	Digitaria ischaemum	1 to 3*	4
Smooth	Digitaria ischaemum	1 to 4*	5
Southern	Digitaria ciliaris	1 to 4*	5
Fall Panicum	Fall Panicum Panicum dichotomiflorum		4
Foxtail			
Giant	Setaria faberi	1 to 4	4
Green	Setaria viridis	1 to 4	4
Millet	Setaria italica	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	Panicum texanum	1 to 4	5
Volunteer Cereals			
Barley	Hordeum vulgare	1 to 4	5
Oats	Avena sativa	1 to 4	5
Wheat	Triticum aestivum	1 to 4	5
Wild Proso Millet	Panicum miliaceum	1 to 6	4
Wild Oats	Avena fatua	1 to 4	5

*Length of lateral growth

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

RECOMMENDATIONS FOR PERENNIAL GRASSES

- Make application only to actively growing grasses at the recommended weed heights. Make application when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the higher rate under heavy grass pressure and/or when grasses are at maximum height. Do not apply more than 8 fl oz/A of **CLETHODIM 2EC** per application to the following crops: Garden beets, carrots, radish (and other root vegetables), green onions, leaf lettuce, broccoli, cabbage, cauliflower (and other head and stem Brassica vegetables), celery, rhubarb (and other leaf petioles), cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry. Do not apply more than 6 fl oz/A of product per application to canola or mustard seed.

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 <i>(Festuca arundinacea)</i>			
First Application	4 to 8	8	16
Repeat Application(s) if regrowth occurs)	4 to 8	8	16
Foxtail Barley <i>(Hordeum jubatum)</i>		1	
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* <i>(Elytrigia repens)</i>			
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 (Muhlenbergia frondosa)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Perennial Bluegrass*			

Roughstalk (Poa trivialis)			
Kentucky (Poa prantensis)			
First Application	2 to 4	8	16
Repeat Application(s) (if regrowth	2 to 4	8	16
occurs)			
Bentgrass* <i>(Agrostis</i> spp.)			
First Application	2 to 4	-	16
Repeat Application(s) (if regrowth	2 to 4	-	16
occurs)			

*Control of quackgrass, perennial bluegrass and bentgrass with this product may be enhanced by adding AMS at 2.5 to 4.0 lbs/A.

TANK-MIXES

GENERAL INFORMATION

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

- Geographic restrictions all products are not registered for use in all areas and rates may vary from one region of labeled use to another
- Crop rotation restrictions may differ
- Applicator certification requirements
- Worker safety rules, i.e., personal protective equipment (PPE), reentry time, posting
- Soil characteristics or soil type, e.g. pH, OM
- Number of applications and or maximum dosage per season
- Rain free period required or
- Application timing, e.g. pre-harvest interval
- Total season rates not to be exceeded.

ALWAYS FOLLOW THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK-MIX.

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

- Make application only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Make application when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment.
- Make application under favorable soil moisture and humidity that exist a few days after rainfall or within seven (7) days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank-mix combination.
- Tank-mix application can 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, apply a second application of **CLETHODIM 2EC** as specified in the respective size and rate tables.
- Do Not tank-mix 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 **CLETHODIM 2EC**, making sure that agitation makes a rippling or rolling action on the water surface.
- 2. When tank-mixing this product 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.

- 3. Add any required adjuvants (crop oil concentrate, nonionic surfactant and/or nitrogen solution.).
- 4. Fill spray tank to desired level with water.

Continue agitation 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. Verify mixing and compatibility qualities by conducting a jar test.

ANTAGONISM INFORMATION

Tank-mixes of CLETHODIM 2EC with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species, which would have otherwise been control by CLETHODIM 2EC alone. Activity of the postemergence broadleaf herbicide in the tank-mix is not affected.

ALFALFA Table 1. CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA NOTE: See recommendation tables above for specific grasses and growth stages

	APPLICATION RATES/ACRE ¹					
PRODUCT ²	ANNUAL GRASSES	PERENNIAL		OP OIL		
		GRASSES	CONCENTRATE ³			
			GROUND	AIR		
CLETHODIM 2EC	10 – 16 fl oz	10 – 16 fl oz				
+	+	+	1%	1%		
2,4-DB ⁴	See 2,4-DB label	See 2,4-DB label				
CLETHODIM 2EC	10 – 16 FL oz					
+	+		1%	1%		
PURSUIT DG ⁵	1.08 – 2.16 oz	-				
OR	OR					
PURSUIT⁵	3 TO 6 FL oz					
CLETHODIM 2EC	10 – 16 fl oz					
+	+					
BUCTRIL [®] 2L ⁶	1.0 – 1.5 pts	-	0.5%	0.5%		
OR	or					
BUCTRIL GEL ^{6,7}	0.5 – 0.75 pt					

1 If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of **CLETHODIM 2EC** alone – without a tank-mix herbicide, according to the appropriate size and rate recommendation.

- 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 **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 States of Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming and the western halves of Kansas, Nebraska, North Dakota, South Dakota: The tank-mix of CLETHODIM 2EC plus BUCTRIL or BUCTRIL GEL must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliate. Unacceptable crop injury can occur to alfalfa seedlings less than the 2-trifoliate leaf stage. BUCTRIL or BUCTRIL GEL plus CLETHODIM 2EC applications made when temperatures are expected to exceed 80°F 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. Unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage growth, when alfalfa stand is uneven and conditions favor leaf burn. When applications of **CLETHODIM 2EC** plus BUCTRIL or BUCTRIL GEL are made when temperatures are expected to exceed 70°F and three days following such application can result in unacceptable crop injury. Crop leaf burn can occur following **CLETHODIM 2EC** plus BUCTRIL or BUCTRIL GEL applications. Warm, humid conditions may enhance leaf burn. However, new crop growth will not be affected.

7 Do not make application 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 CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR CANOLA

(See recommendation tables above for specific grasses and growth stages)

	APPLICATION RATES/ACRE				
PRODUCT	ANNUAL GRASSES ¹	PERENNIAL	AMMONIUM SULFAT		
		GRASSES	GROUND	AIR	
CLETHODIM 2EC ²	4 – 5 fl oz				
+	+	-	3.0 lbs	3.0 lbs	
LIBERTY ³	34 fl oz				

1 Annual grasses and sizes controlled with these tank-mixtures are those that are identified in the **DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET RECOMMENDATIONS FOR SMALL ANNUAL GRASSES** table.

- 2 Do not apply **CLETHODIM 2EC** tank-mix during or after bolting or flowering or crop injury could occur.
- 3 For use only on LibertyLink[®] canola.

COTTON

Table 3. 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	
CLETHODIM	ANNUAL PERENNIAL		GROUND		
2EC ⁴	GRASSES	GRASSES			
+	6 – 8 fl oz	6 – 8 fl oz 8 – 16 fl oz 1%			
COBRA		rates to control broadleaf		broadcast rate in proportion to the	
+		limitations for cotton. See CLETHODIM 2EC label for weed height			
MSMA	and species controlled.			band area	
(4.0 lbs/gal)	See MSMA label for r	actually treated.			
or	limitations for cotton.				
MSMA	and species controlle				
(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 If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of 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 can result and a second non-post directed application of **CLETHODIM 2EC** may be necessary.

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

PRODUCT ¹	APPLICATION RATE/ACRE ² ANNUAL GRASSES	CROP OIL CONCENTRATE PER ACRE ³	COMMENTS ⁷
CLETHODIM 2EC + BUCTRIL 4 EC ^{4,5,6}	8 – 16 fl oz Refer to 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.
- 2 If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of CLETHODIM 2EC at the recommended rate with the appropriate amount of crop oil concentrate in a non-BUCTRIL tank-mix.
- 3 Always add a crop oil concentrate 1 qt/A by ground in the finished spray solution.
- 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 applications of bromoxynil.
- 5 Do not apply the **CLETHODIM 2EC** plus BUCTRIL tank-mix within 75 days of harvest.
- 6 Do not exceed 2 applications of BUCTRIL before cotton is 12 inches tall and one application after 12 inches tall.
- 7 Use a minimum of 10 gallons of spray solution per acre.

Table 5. CLETHODIM 2EC TANK-MIXED WITH GLYPHOSATE TO CONTROL EMERGEDGRASSES IN COTTON AS A BROADCAST APPLICATION

	APPLICATION	I RATE/ACRE ¹	ADJUVA	ANT	
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built in adjuvant	Glyphosate formulation without built-in adjuvant	COMMENTS
CLETHODIM 2EC + GLYPHOSATE	6 – 8 fl oz See glyphosate l control broadleaf height limitations	weeds and	Nonionic surfactant @ 0.125 to 0.25% v/v plus ammonium sulfate @ 8.5 to 17 lbs per 100 gallons carrier	Crop oil concentrat e @ 1 pt/A plus ammonium sulfate @ 8.5 to 17 lbs per 100 gal carrier	See charts for grasses controlled. Use a minimum of 10 gals of spray solution per acre.

1 If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of CLETHODIM 2EC at the recommended rate with the appropriate amount of crop oil.

DRY BEAN Table 6. CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR DRY BEANS (See recommendation tables above for specific grasses and growth stages)

	APF	PLICATION RATE	ES/ACRE ¹		
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE ³ (V/V)		
			GROUND	AIR	
CLETHODIM 2EC + BASAGRAN®	8 – 10 fl oz + 1.0 – 2.0 pts/A	10 – 16 fl oz + 1 to 2 pts	1%	1%	

1 If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **CLETHODIM 2EC** alone – without a tank-mix herbicide – according to the appropriate size and rate recommendations.

2 Broadleaf weed control can 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.

FLAX

Table 7. REDUCED RATE CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR FLAX

(See recommendation	APPLICATION RATES/ACRE					
PRODUCT	ANNUAL GRASSES ¹	PERENNIAL GRASSES	CROP OIL CONCENTRATE			
			GROUND	AIR		
CLETHODIM 2EC	4 – 5 fl oz					
+	+	-	1 pt	1 pt		
BRONATE ADVANCED ^{™2,3}	11.4 fl oz		-	-		
CLETHODIM 2EC	4 – 5 fl oz					
+	+	-	1 pt	1 pt		
BRONATES®	0.9 pt		-	-		
CLETHODIM 2EC	4 – 5 fl oz					
+	+	-	1 pt	1 pt		
BUCTRIL ^{2,3}	1.0 pt		-	-		
CLETHODIM 2EC	4 – 5 fl oz					
+	+	-	1 pt	1 pt		
RHONOX ^{®2,3}	0.25 – 0.5 pt			•		

(See recommendation tables above for specific grasses and growth)

1 Annual grasses and sizes controlled with these tank-mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEANS, CANOLA, FLAX, MUSTARD SEED, SOYBEANS AND SUGAR BEETS RECOMMENDATIONS FOR SMALL ANNUAL GRASSES table.

2 Do Not apply CLETHODIM 2EC tank-mix during or after the bud stage or to ornamental flax as crop injury can occur

3 Do Not apply tank-mixes when temperatures are expected to exceed 85°F at or for 3 days following application as crop injury can occur.

SOYBEAN Table 8. CLETHODIM 2EC TANK-MIXES³ 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 OR 32%N QTS/A OR 2.5 TO 4.0 LBS AMS
CLETHODIM 2EC	3 fl oz	Foxtail 1 to 3	1 qt	1 – 2 qts
+		Fall Panicum 1		or
2,4-D ESTER*,3		to 3		2.5 – 4.0 lbs
				AMS
	4 fl oz	Foxtail 1 to 4	1 qt	1 – 2 qts
		Fall Panicum 1		or
		to 4		2.5 – 4.0 lbs
				AMS
	6 – 8 fl oz	(See Grass	1 qt	1 – 2 qts
	+	Chart		or
	0.5 lb ai	for grasses		2.5 – 4.0 lbs
		claimed)		AMS

*2,4-D ester should NOT be used where drift sensitive crops may be grown.

- 1 Apply a second application of **CLETHODIM 2EC** according to the appropriate size and rate recommendations, if regrowth occurs or an additional flush of new grass emerges.
- 2 Always use a crop oil concentrate at the listed rate in the finished spray volume.

3 The following products can be tank-mixed with CLETHODIM 2EC plus 2,4-D ester: AUTHORITY[®] BROADLEAF, CANOPY XL[®], DUAL[®] 8E, DUAL II, DUAL MAGNUM[®], PROWL[®], VALOR[™], SENCOR[®], SENCOR plus the DUAL products and TURBO[®].

Table 9. CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (See recommendation tables above for specific grasses and growth stages)

	APPLICATION RATES/ACRE ¹				
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES	CONCE	P OIL NRATE ³ (V/V)	
	0.01	0.405	GROUND	AIR	
CLETHODIM 2EC	6 – 8 fl oz	8 – 16 fl oz	0 5 4 404	4.07	
+ COBRA	+ 12.5 fl oz	+ 12.5 fl oz	0.5 to 1%	1%	
CLETHODIM 2EC	8 – 10 fl oz	10 – 16 fl oz			
	+	+	1%	1%	
BASAGRAN 4 SL	1 – 2 pts	1 – 2 pts	170	1 70	
CLETHODIM 2EC	6 – 8 fl oz	8 – 16 fl oz			
+	+	+	0.5 to 1% ⁴	1% ⁴	
Glyphosate (For use on Roundup Ready soybeans only)	0.75 – 3.0 lb ai	0.75 – 3.0 lb ai			
CLETHODIM 2EC	6 – 8 fl oz	6 – 8 fl oz			
+	+	+	0.5 to 1%	1%	
BLAZER [®] 2 SL	1 – 1.5 pts	1 – 1.5 pts			
CLETHODIM 2EC	6 – 8 fl oz	8 – 16 fl oz			
+	See FLEXSTAR	See FLEXSTAR	1%	1%	
FLEXSTAR [®] HL ⁶	HL label for	HL label for			
	specific	specific			
	application rates	application rates			
CLETHODIM 2EC	8 – 10 fl oz	10 – 16 fl oz			
+	+	+	1%	1%	
CLASSIC [®] 25 DG	0.5 – 0.75 oz	0.5 – 0.75 oz			

	0 0 fl	0 40 ft	1	
CLETHODIM 2EC ⁴	6 – 8 fl oz +	8 – 16 fl oz	1%	1%
PURSUIT 70 DG	1.44 oz	+ 1.44 oz	1 70	1 70
CLETHODIM 2EC ⁵	8 – 10 fl oz	1.44 02		
	0 - 10 11 02 +		0.5%	1%
COBRA	6 – 8 fl oz	_	0.070	170
+	+			
CLASSIC 25 DG	0.5 – 0.75 oz			
CLETHODIM 2EC ⁵	8 – 10 fl oz			
+	+			
COBRA	6 – 10 fl oz	-	0.5%	1%
+	+		0.070	170
BASAGRAN 4 SL	1 – 1.5 pts			
CLETHODIM 2EC ⁵	8 – 10 fl oz			
+	+			
COBRA	6 – 10 fl oz	-	0.5%	1%
+	+			
PURSUIT 70 DG	1.44 oz			
CLETHODIM 2EC ⁵	8 – 10 fl oz			
+	+	-	0.5%	1%
STORM®	1.5 pts			
CLETHODIM 2EC ⁵	8 – 10 fl oz			
+	+			10/
RESOURCE®	4 fl oz	-	1%	1%
+	+			
PURSUIT 70 DG CLETHODIM 2EC ⁵	1.44 oz			
	8 – 10 fl oz +			
RESOURCE	4 fl oz		1%	1%
+	4 11 02	-	1 70	1 70
BASAGRAN	1 pt			
CLETHODIM 2EC ⁵	8 – 10 fl oz			
+	+			
RESOURCE	4 fl oz	-	1%	1%
+	+			
CLASSIC	0.5 oz			
CLETHODIM 2EC ⁵	6 – 8 fl oz			
+	+			
COBRA	6 fl oz	-	0.5%	1%
+	+			
RESOURCE	4 fl oz			
CLETHODIM 2EC ⁵	6 – 8 fl oz	8 – 16 fl oz		
+	+	+	1%	-
FIRSTRATE®	0.3 oz	0.3 oz		
CLETHODIM 2EC ⁵	6 – 8 fl oz	8 – 16 fl oz		
+	+	+	4.07	
COBRA	6 – 8 fl oz	6 – 8 fl oz	1%	-
	+	+		
	0.3 oz	0.3 oz		
CLETHODIM 2EC ⁵	6 – 8 fl oz +		1%	
RAPTOR [®] (1 AS)	4 – 5 fl oz	-	170	-
CLETHODIM 2EC ⁵	6 – 8 fl oz			
+	0 - 0 11 02			
COBRA	6 – 8 fl oz	_	1%	_
	0 01102	_	170	-

++RAPTOR (1 AS) $4-5 \text{ fl oz}$ CLETHODIM 2EC ⁵ $6-8 \text{ fl oz}^7$ ++-	
CLETHODIM 2EC ⁵ 6 – 8 fl oz ⁷	
+ 1 at	
	-
SYNCHRONY [®] STS™ 0.5 oz/A	
CLETHODIM 2EC ⁵ 6 – 8 fl oz ⁷	
+ +	
COBRA 4 – 8 fl oz - 1 pt	-
+ +	
SYNCHRONY STS 0.5 oz	
CLETHODIM 2EC ⁵ 6 – 8 fl oz	
+ + - 1 qt	-
RESOURCE 4 – 12 fl oz	
CLETHODIM 2EC ⁵ 8 – 10 fl oz	
+ +	
FRONTROW™ Refer to - 1%	-
FRONTROW	
label	
for use rates	
CLETHODIM 2EC 6 – 8 fl oz 8 – 16 fl oz	
+ + +	
FIRSTRATE 0.3 oz 0.3 oz.	
+ + 1%	-
FLEXSTAR HL ⁵ Refer to the Refer to the	
FLEXSTAR HL FLEXSTAR HL	
label for specific label for specific	
application rates application rates	

- 1 If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2EC alone – without a tank-mix herbicide – according to the appropriate size and rate recommendations.
- 2 Broadleaf weed control can 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.
- 4 When **CLETHODIM 2EC** is tank-mixed with glyphosate, the addition of 2.5 lb. ammonium sulfate is required. If the glyphosate formulation has a stand-alone build-in adjuvant, add 0.125% v/v nonionic surfactant in place of crop oil concentrate, Add 0.5% to 1% crop oil concentrate for ground application and 1% v/v for aerial application, if the glyphosate formulation does not have a build-in adjuvant system.
- 5 When **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, the addition of 1 – 2 qts/A of liquid fertilizer (10-34-0, 28%N, or 32%N) is recommended. An equivalent amount, 2.5 – 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 the FLEXSTAR HL label for geographic and rotational restrictions.
- 7 Annual grasses and sizes controlled with these tank-mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET RECOMMENDATIONS FOR SMALL ANNUAL GRASSES table.

SOYBEAN (continued)

Table 10. REDUCED RATE CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN

(See table for reduced rate use in dry bean, canola, flax, mustard seed, soybean and sugar beet recommendations for small annual grasses for specific grasses and growth

		stages)		
	APPLICATION RATES/ACRE ¹			
PRODUCT	ANNUAL GRASSES ²			ROP OIL ENTRATE ^{3,4} (V/V)
			GROUND	AIR
CLETHODIM 2EC	4 – 8 fl oz			
+	+	-	1%	1%
FIRSTRATE	0.3 oz			
CLETHODIM 2EC	4 – 6 fl oz			
+	+	-	1%	1%
PURSUIT 70 DG	1.44 oz			

1 Make a second application of CLETHODIM 2EC alone – without a tank-mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.

2 Annual grasses and sizes controlled with these tank-mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET RECOMMENDATIONS FOR SMALL ANNUAL GRASSES table.

- 3 Always use a crop oil concentrate at the listed rated, but not less than 1 pt/A, in the finished spray volume.
- 4 When CLETHODIM 2EC is tank-mixed at reduced rates, the addition of 1 2 qts/A of liquid fertilizer (10-34-0, 28% N, or 32%N) is required. 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

Table 11. CLETHODIM 2EC TANK-MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (See recommendation tables above for specific grasses and growth stages)

-	APPLICATION RATES/ACRE ¹				
PRODUCT ²	ANNUAL GRASSES ²	PERENNIAL GRASSES	CROP OIL CONCENTRATE ³ (V/V)		
			GROUND	AIR	
CLETHODIM 2EC	8 – 10 fl oz				
+	+	-	1%	1%	
BASAGRAN	1.0 – 2.0 pts				
CLETHODIM 2EC	8 – 10 fl oz				
+	+	-	1%	1%	
BLAZER	0.5 – 1.5 pts				
CLETHODIM 2EC	8 – 10 fl oz				
+	+	-	1%	1%	
STORM	1.5 pts				

1 Make a second application of **CLETHODIM 2EC** alone – without a tank-mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.

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. Tankmixing 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.

RECOMMENDATIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH CLETHODIM 2EC						
WEED STAGE	RATE FL OZ/ ACRE	HIGH RATE				
Up to and including grasses in the seed head stage	16	32				
	WEED STAGE Up to and including grasses in the seed head stage	WEED STAGERATE FL OZ/ ACREUp to and including grasses in the seed16				

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

SUGAR BEET

 Table 12. CLETHODIM 2EC TANK-MIXED WITH STINGER[®] APPLIED TO SUGAR BEET (See recommendation tables above for specific grasses and growth stages)

PRODUCT ²	APPLICATION ANNUAL GRASSES	N RATES/ACRE ¹ PERENNIAL GRASSES	CROF CONCEN (V/	TRATE ³
			GROUND	AIR
CLETHODIM 2EC	6 – 8 fl oz	8 – 16 fl oz	1%	
+				
STINGER	See STINGER la	bel for rates.		

1 Make a second application of CLETHODIM 2EC alone – without a tank-mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.

- 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.

Table 13. CLETHODIM 2EC TANK-MIXED WITH BETAMIX [®] OR BETANEX [®] APPLIED TO

	WEEDS CONTROLLED		WEED				
PRODUCT ²	COMMON NAME	SCIENTIFIC NAME	HEIGHT (Inches)	APPLICATION RATES/ACRE ¹			
CLETHODIM	Barnyardgrass	Echinochloa crus-galli	1 to 3	8 fl oz			
2EC ³	Foxtail	<i>Setaria</i> spp.	1 to 3	See BETAMIX			
+	Foxtail Millet	Setaria italica	1 to 3	label for rates to			
BETAMIX	Wild Oat	Avena fatua	1 to 3	control broadleaf			
OR BETANEX	Wild Proso Millet	Panicum miliaceum	1 to 3	weeds. No			
				additives are			
				recommended in			
				this tank-mix.			
				See BETANEX			
				label for rates to			
				control broadleaf			
				weeds. No			
				additives are			
				recommended			
				in this tank-mix.			

- 1 Do not use crop oil concentrate. No additives are recommended in this tank-mix. Make a second application of CLETHODIM 2EC alone without a tank-mix herbicide according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.
- 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. Tankmixing is not recommended in these situations.
- 3 Make a second application of **CLETHODIM 2EC** at the full label rate with appropriate rate of crop oil concentration, if grass regrowth occurs or an additional flush of new grass emerges.

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

		APPLICATION RATES/ACRE ¹			
PRODUCT	ANNUAL GRASSES	GRASSES CONTROLLED (inches)	MET	HYLATED ED OIL ² (V/V)	
			GROUND	AIR	
CLETHODIM	2 – 3 fl oz	Green Foxtail (1-2)	1.5%	1.5%	
2EC	+	Yellow Foxtail (1-2)			
+	0.8 – 12 fl oz ³	Barnyardgrass (1-2)			
BETANEX	or	Wild Oat (1-2)			
or	0.8 – 12 fl oz ³	Volunteer Cereals (1-			
BETAMIX		2)			

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 Always use a methylated seed oil at the listed rate, but not less than 1 pt/A, in the finished spray volume.
- 3 When sugar beets are in the cotyledon to 4-leaf stage, use 8 fl oz/A rate. This 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.

DIRECTIONS FOR USE WITH MICRO-RATE APPLICATIONS TO SUGAR BEETS GENERAL INFORMATION

Multiple micro-rate applications of **CLETHODIM 2EC** in tank-mixtures with reduced rates of BETANEX or BETAMIX and methylated seed oils can be applied by air or ground equipment to sugar beets to control early germinating annual grasses listed above. Do not exceed the rate of 0.12 lb ai/A broadcast application for BETANEX or BETAMIX 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, i.e. 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 CLETHODIM 2EC TANK-MIXES

Apply **CLETHODIM 2EC** in broadcast applications only at a rate of 2 - 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 **CLETHODIM 2EC** tank-mixtures. A minimum of 3 sequential applications of BETANEX or BETAMIX should be used. Accurate timing is essential. Immediately after weeds emerge, make initial application and make repeat applications on 5- to 7-day intervals. Return to conventional application rates of **CLETHODIM 2EC**, 6 - 8 fl oz/A, and add rates of BETANEX or BETAMIX as directed on their label, if weed control is not adequate due to climatic conditions, spray coverage or other factors. A spray adjuvant is not recommended when using conventional rates of BETANEX or BETAMIX in tank-mixtures with **CLETHODIM 2EC**.

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

Even with favorable climatic conditions, not all weeds will be adequately controlled. If multiple microrate applications do not adequately control weeds, conventional rates of **CLETHODIM 2EC**, BETANEX or BETAMIX and/or hand labor may be required. 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. If the BETANEX or BETAMIX rate exceeds 0.12 lb ai/A broadcast, methylated seed oils must not be added. This addition of methylated seed oils could increase the possibility of crop injury at dosage rates greater than 0.12 lb ai/A.

GROUND APPLICATION

It is essential to use sufficient spray volumes and pressure to ensure complete coverage. Use a minimum of 10 gallons and maximum of 20 gallons 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

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

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

			— -		
	AP	APPLICATION RATES/ACRE ¹			
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE ³ (V/V)		
CLETHODIM 2EC	6 – 8 fl oz	8 - 16 fl oz			
+	+	+	1%		
EMINENT [®]	13 fl oz	13 fl oz			

1 Make a second application of **CLETHODIM 2EC** at the full label rate with appropriate rate of crop oil concentration, if grass regrowth occurs or an additional flush of new grass emerges.

- 2 Refer to **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.

Table 16. TANK-MIX APPLICATION OF CLETHODIM 2EC AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUT, SOYBEAN AND SUNFLOWER

	APPI	LICATION RATE	ES/ACRE ¹			CRC)P		
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE (V/V) ³	Alfalfa ⁴	Cotton	Mint ^{4,5}	Peanut	Soybean	Sunflower
CLETHODIM	6 – 8 fl oz	8 – 16 fl oz	1%		Х	Х	Х		
2EC	+	+							
+	0.33 – 1.33	0.33 – 1.33							
ORTHENE [®] 75 S	lbs	lbs							
or	or	or							
ORTHENE 97	0.25 – 1.0 lb	0.25 – 1.0 lb							
CLETHODIM	6 – 8 fl oz	8 – 16 fl oz	1%		Х	Х	Х	Х	
2EC	+	+							
+	0.25 – 1 lb	0.25 – 1 lb							
ORTHENE 90 S ⁶									

		· · · · · · · · · · · · · · · · · · ·						
CLETHODIM	6 – 8 fl oz	8 – 16 fl oz	1%		Х		Х	
2EC	+	+						
+	10-2/3 – 16	10-2/3 – 16 fl						
DANITOL [®] 2.4	fl oz	οz						
EC								
CLETHODIM	6 – 8 fl oz	8 – 16 fl oz	1%					Х
2EC	+	+						
+	See ASANA	See ASANA						
ASANA XL®	XL label	XL label						
CLETHODIM	6 – 8 fl oz	8 – 16 fl oz	1%					Х
2EC	+	+						
+	See	See						
WARRIOR [®]	WARRIOR	WARRIOR						
	label	label						
CLETHODIM	10 – 16 fl	10 – 16 fl oz	1%	Х				
2EC	oz ⁷	+						
+	+	See						
WARRIOR	See	WARRIOR						
	WARRIOR	label						
	label							
CLETHODIM	10 – 16 fl oz	10 – 16 fl oz	1%	Х				
2EC	+	+	1.70					
+	See	See						
BAYTHROID®	BAYTHROID	BAYTHROID						
	label	label						
CLETHODIM	10 – 16 fl	10 – 16 fl oz	1%	Х				
2EC	oz ⁷	+						
+	+	See						
DIMETHOATE	See	Dimethoate						
	Dimethoate	label						
	label							
CLETHODIM	10 – 16 fl oz	10 – 16 fl oz	1 – 2 pt ⁸	Х				
2EC	+	+	· 2 Pt					
+	See	See						
LORSBAN®	LORSBAN	LORSBAN						
	label	label						
CLETHODIM	10 – 16 fl	10 – 16 fl oz	1%	X		\vdash		
2EC	oz^7	10 – 10 11 02 +	170					
+	+	See						
POUNCE®	See	POUNCE						
FUNCL	POUNCE	label						
	label							
	Ianei			1				

1 Make a second application of CLETHODIM 2EC alone – without a tank-mix insecticide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges.

2 Refer to CLETHODIM 2EC and insecticide label for rates and weeds and insects controlled.

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

4 Certain insecticides can cause temporary phytotoxic symptoms on alfalfa and mint foliage. See the insecticide label for further information. Prior to using any of these insecticide/herbicide tank-mixtures, it is suggested a small area of the field be treated and observed for crop injury before treating the entire field.

5 Rates for **CLETHODIM 2EC** for annual grass control in baby mint should be 6 – 8 fl oz/A; minimum of 8 fl oz/A for annual grass control in established mint and 8 – 16 fl oz/A for perennial grass control. Add a crop oil concentrate at the rate of 1.0 – 2.0 pts/A.

- 6 ORTHENE 90 S insecticide tank-mix use with **CLETHODIM 2EC** is permitted only in a state having an approved Section 24(c) registration for ORTHENE 90 S use in soybeans.
- 7 The rate for **CLETHODIM 2EC** for annual grass control in seedling alfalfa should be 6 8 fl oz/A.
- 8 For **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. RECOMMENDATIONS FOR ROUNDUP READY VOLUNTEER CORN CONTROL IN ROUNDUP READY SOYBEANS WITH CLETHODIM 2EC HERBICIDE TANK-MIX

Roundup Ready Volunteer Corn Height (Inches)	CLETHODIM 2EC RATE FL OZ/A	GLYPHOSATE ¹ RATE FOR FORMULATIONS <u>WITH</u> BUILT IN ADJUVANT	ADJUVANT
<12	4	– 2.0 lb ai/A	Nonionic surfactant @ 0.125
12 – 18	5	(Approx. equivalent to 22 –	– 0.25% v/v plus ammonium
18 – 24	6	44 fl oz/A of ROUNDUP	sulfate (AMS) @ 8.5 – 17
		Weather MAX)	lbs per 100 gallons carrier

Roundup Ready Volunteer Corn Height (Inches)	CLETHODIM 2EC Rate fl oz/A	GLYPHOSATE1 RATE FOR FORMULATIONS <u>WITHOUT</u> BUILT IN ADJUVANT	ADJUVANT
<12	4	Up to 2.0 lb ai/A	Crop oil concentrate @ 1
12 to 18	5	(Equivalent to 32 – 64 fl oz/A	pt/A plus ammonium
18 – 24	6	of ROUNDUP Original)	sulfate (AMS) @ 8.5 – 17 Ibs per 100 gallons carrier

1 Glyphosate formulation must be labeled for use on Roundup Ready soybeans.

ALWAYS FOLLOW THE MOST RESTRICTIVE LABELING LANGUAGE OF ANY PRODUCT USED IN A TANK-MIX

- Make application only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Make application under favorable soil moisture and humidity, which exist a few days after rainfall or within seven days after irrigation.
- Reduced grass control can sometimes result with tank-mix application. Make a second application of CLETHODIM 2EC as specified in the respective size and rate tables, if regrowth occurs or an additional flush of new grass emerges.
- This tank-mix may be applied postemergence to ROUNDUP READY soybeans up through the full flowering stage. Do Not make application less than 60 days before harvest.
- Severe injury or destruction will result unless contact is avoided with foliage, green stems, or fruit crops, or any desirable plants and trees, other than soybeans with ROUNDUP READY gene.
- Do not allow the 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 is 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 will 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.
- Do not tank-mix **CLETHODIM 2EC** when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

FALLOW LAND DIRECTIONS FOR USE

CLETHODIM 2EC can be used to control annual and perennial grasses in land that has been left fallow the previous year and on other non-producing agricultural areas. Make application at 6 - 8 fl oz/A for annual grasses and 8 - 16 fl oz/A for perennial grasses. **CLETHODIM 2EC** can be tankmixed with 2,4-D ester or BANVEL[®] SFG for broad-spectrum control when both grass and broadleaf weeds are the target pest. Apply a minimum of 8 fl oz/A **CLETHODIM 2EC** when both annual and perennial grasses occur in the same field.

GENERAL INFORMATION

Use a minimum spray volume of 5 gallons/A for aerial applications and 15 gallons/A for ground applications.

Make application only to actively growing grasses when the first grass reaches the recommended weed height as specified by the "Recommendations for Annual and Perennial Grasses" section of this label.

Do not apply to drought stressed grasses.

Do not apply to grasses that have tillered, formed seed-heads or exceeded recommended growth stage.

Do not flood jet nozzles.

Do not plant any crop for 30 days after application unless clethodim is registered for use on that crop.

Annual grasses that emerge after the **CLETHODIM 2EC** application will not be controlled and a second application could be necessary.

Do not mow area for two (2) weeks prior to or after the **CLETHODIM 2EC** application.

Control of perennial grasses may require more than one (1) application in non-tilled areas.

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

PRODUCT	APPLICATION RATES/ACRE ¹			CROP OIL CONCENTRATE
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
CLETHODIM	6 – 8 fl oz	8 – 16 fl oz.	1%	1%
2EC	+			
+	0.5 lb/A			
2,4-D ester	or			
or	See BANVEL			
BANVEL SGF	SGF label for			
	rates			

1 See **CLETHODIM 2EC** label for weed height and species control. Review BANVEL SGF and 2,4-D labels for use rates, weeds controlled and crop restrictions.

2 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.

RECOMMENDATIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH CLETHODIM 2EC					
GRASS SPECIES WEED STAGE RATE ACRE RATE					
Annual and perennial grasses that exceed height claimed for control on height chart aboveUp to and including grasses in the seed head stage1216					
Do not apply as part of a tank-mix when apply	/ing CLETHODIM 2EC for gras	s suppression	on.		

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

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

		GRASS WEEDS CONTROLLED/SUPPRESSED		WEED
PRODUCT	PRODUCT RATES	Common Name	Scientific Name	STAGES
CLETHODIM 2EC	10 – 12 fl oz/A	Tall Fescue	Festuca arundinacea	4 to 6 inches tall (40-60% green-
AD II IVANT: CLETHODIM 2EC must be applied with a crop oil concentrate at 1 dt/A plus a sprav				

ADJUVANT: **CLETHODIM 2EC** must be applied with a crop oil concentrate at 1 qt/A, plus a spray grade ammonium sulfate (AMS) at 2.5 – 4 lbs/A.

Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add **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. Make application in the spring at 40 to 60% tall fescue green-up, prior to emergence of warm-season grasses. Do not mow area for two (2) weeks after the **CLETHODIM 2EC** application.

Make application in a minimum of 15 to 20 gallons 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.

Make application only to fields that have warm season grasses established for two (2) years. Application of **CLETHODIM 2EC** to emerged warm-season grasses may cause injury. Do not make applications 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 on that crop.

ATTENTION: **CLETHODIM 2EC** applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47°F.

Table 20. CLETHODIM 2EC FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NONPRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATE	SUPPRESSION	APPLICATION TIMING		
CLETHODIM 2EC	1-1/2 – 2 fl oz/A	Tall Fescue Seed-	(50 to 90% Tall		
		Heads	Fescue green-up)		
		(Festuca arundinacea			
ADJUVANT: CLETHODIM 2EC must be applied with a crop oil concentrate at 1 qt/A, plus a spray grade ammonium sulfate (AMS) at 2.5 – 4 lbs/A.					
Recommended Mixing Order: Theroughly mix enroy grade emperium culfate in water, add					

Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add **CLETHODIM 2EC**, then add crop oil concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Make application at 50 to 90% tall fescue green-up.

If less tall fescue green matter is present, use the higher **CLETHODIM 2EC** rate.

Do Not mow area for two (2) weeks after the CLETHODIM 2EC application.

Make application in a minimum of 15 to 20 gallons water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Make application 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 on that crop.

ORNAMENTALS DIRECTIONS FOR USE

CLETHODIM 2EC can be used for ornamental plant uses to control labeled grass weeds in greenhouse, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plants, and structure landscapes.

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

The following plants have shown a tolerance for **CLETHODIM 2EC** applications.

ORNAMENTAL TREES				
COMMON NAME	SCIENTIFIC NAME			
ALDER, RED	Alnus rubra			
ASH	Fraxinus spp.			
BASSWOOD	<i>Tilia</i> spp.			
BIRCH, EUROPEAN WHITE	Betula pendula			
BIRCH, RIVER	Betula nigra			
BIRCH, WHITE	Betula papyrifera			
CRABAPPLE, FLOWERING	Malus halliana			
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	Liquidambar styraciflua			

ORNAMENTAL TREES

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 japonicus				

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. DAY, TRAILING AFRICAN Osteospermum fruticosum DAYLILY Hemerocallis spp. DUSTY MILLER Senecio cineraria EUONYMUS Euonymus spp. GAZANIA Gazania spp. GERANIUM, HOUSE Pelargonium hortorum HEATHER, FALSE Cuphea hyssopifolia HOSTA Hosta fortunei IRIS Iris spp. JASMINE TOBACCO Nicotiana alata LOOSESTRIFE Lythrum salicaria MARIGOLD Tagetes spp.	PERIWINKLE, LESSER	Vinca minor
COMMON NAMESCIENTIFIC NAMEAGERATUMAgeratum spp.ALYSSUM*, SWEETLobularia maritimaASPARAGUS FERNAsparagus setaceusBLEEDING HEARTDicentra spectabilisCAST IRON PLANTAspidistra elatiorCHRYSANTHEMUMChrysanthemum spp.CINQUEFOILPotentilla spp.COLEUSColeus spp.CORALBELLSHeuchera sanguineaCRANESBILLGeranium spp.DAHLIADahlia spp.DAY, TRAILING AFRICANOsteospermum fruticosumDAYLILYHemerocallis spp.DUSTY MILLERSenecio cinerariaEUONYMUSEuonymus spp.GAZANIAGazania spp.GERANIUM, HOUSEPelargonium hortorumHEATHER, FALSECuphea hyssopifoliaHOSTAHosta fortuneiIRISIris spp.JASMINE TOBACCONicotiana alataLOOSESTRIFELythrum salicariaPARTRIDGEBERRYMitchella repensPETUNIA*Petunia hybridaPHLOXPhlox spp.SAXIFRAGESaxifraga spp.SAXIFRAGESaxifraga spp.SELLOUMPhilodendron selloumSNAPDRAGON*Antirrhinum majus	, , , , , , , , , , , , , , , , , , ,	
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SELLOUMPhilodendron selloumSNAPDRAGON*Antirrhinum majus	SEDUM	
SNAPDRAGON* Antirrhinum majus		
		Antirrhinum majus
SWEET FLAG Acorus gramineus	SWEET FLAG	Acorus gramineus
TICKSEED Coreopsis grandiflora		
TOUCH-ME-NOT Impatiens spp.		
VERBENA Verbena spp.		
VIOLET Viola spp.		
YARROW, COMMON Achillea millefolium		
ZINNIA Zinnia elegans		

 ZINNIA
 Zinnia elegans

 * Slight foliage or flower speckling has been observed on these species.

SHRUBS			
COMMON NAME	SCIENTIFIC NAME		
ABELIA	Abelia spp.		
ANISE, PURPLE	Illicium floridanum		
AUCUBA	Aucuba spp.		
AZALEA*	Rhododendron spp.		
BAMBOO	Bambusa spp.		
BARBERRY, JAPANESE	Berberis thungergii		

BARBERRY, MAGELLAN	Berberis buxifolia
BAYBERRY	Myrica pensylvanica
BOTTLEBRUSH	Callistemom citrinus
BOXWOOD, COMMON	Buxus sempervirens
CAMELLIA, COMMON	Camellia japonica
CANDYTUFT	Iberis sempervirens
CLEYERA	Cleyera japonica
CORALBERRY	Ardisia crenata
CRAPE MYRTLE	Lagerstroemia indica
COYOTE BRUSH	Baccharis pilularis
FIG, CREEPING	Ficus pumila
GARDENIA	Gardenia spp.
HOLLY	<i>llex</i> spp.
HONEYSUCKLE	Lonicera spp.
INDIAN HAWTHORN	Raphiolepis indica
JASMINE	Jasminum spp.
JASMINE, ASIATIC	Trachelospermum asiaticum
JASMINE, STAR	Trachelospermum jasminoides
JUNIPER	<i>Juniperus</i> spp.
LANTANA	Lantana spp.
NANDINA* BAMBOO, HEAVENLY	Nandinia domestica
OLEANDER, COMMON	Nerium oleander
OREGON GRAPE	Mahonia aquifolium
PHOTINIA	Photinia spp.
PITTOSPORUM	<i>Pittosporum</i> spp.
PODOCARPUS	Podocarpus spp.
PRIVET	<i>Ligustrum</i> spp.
PYRACANTHA	<i>Pyracantha</i> spp.
RHODODENDRON	Rhododendron spp.
ROSE	Spiraea bumalda
SWEET OLIVE	Osmanthus fragrans
VIBURNUM	Vibumum tinus
WISTERIA	<i>Wisteria</i> spp.
YELLOW SAGE/SHRUB	Lantana camara
VERBENA	

*Slight foliage or flower speckling has been observed on these species.

RECOMMENDATIONS FOR ANNUAL GRASSES IN ORNAMENTALS

- 1) Make application to actively growing grasses at recommended weed heights.
- 2) Make application when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- 3) Use the higher 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 – 8	8	16
Broadleaf Signalgrass	Brachiaria platyphylla	2-6	8	16
	Brome			
California	Bromus carinatus	2-6	8	16
Cheat	Bromus secalinus	2-6	8	16
Downy	Bromus tectorum	2-6	8	16
Ripgut	Bromus diandrus	2-6	8	16
Canarygrass	Phalaris canariensis	1 – 4	8	16
Crabgrass				

Hairy	Digitaria adscendens	2-6**	8	16
Large	Digitaria sanguinalis	2-6**	8	16
Smooth	Digiteria ischaemum	2-6**	8	16
Southern	Digiteria ciliaris	2-6**	8	16
Crowfootgrass	Dactyloctenium aegyptium	2-6**	8	16
Fall Panicum	Panicum dichotomiflorum	2-8	8	16
Field Sandbur	Cenchrus incertus	2-6	8	16
	Foxtail		_	
Giant	Setaria faberi	2 – 12	8	16
Green	Setaria viridis	2 – 8	8	16
Yellow	Setaria glauca	2-8	8	16
Goosegrass	Eleusine indica	2-6**	8	16
Itchgrass	Rottboellia cochin	2-6	8	16
Junglerice	Echinochloa colona	2-6	8	16
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2-6	8	16
Rabbitsfootgrass	Polypogon monspeliensis	1 – 4	8	16
Red Rice	Oryza sativa	1 – 3	8	16
Ryegrass	1 - 2	•		
Hardy	Lolium remotum	2-6	8	16
Italian	Lolium multiflorum	2-6	8	16
Seedling Johnsongrass	Sorghum halepense	4 – 10	8	16
Shattercane	Sorghum bicolor	6 – 18	8	16
Southwestern Cupgrass	Eriochloa gracilis	2-6	8	16
Sprangletop		·		
Amazon	Leptochloa panicoides	2-6	8	16
Bearded	Leptochloa fascicularis	2-6	8	16
Mexican	Leptochloa uninervia	2-6	8	16
Red	Leptochloa filiformis	2-6	8	16
Texas Panicum	Panicum texanum	2-6	8	16
Volunteer Cereals				
Barley	Hordeum vulgare	2-6	8	16
Oats	Avena sativa	2-6	8	16
Rye	Secale cereale	2-6	8	16
Wheat	Triticum aestivum	2-6	8	16
Volunteer Corn	Zea mays	4 – 12	6	8
Volunteer Corn	Zea mays	12 – 24	8	16
Volunteer Grain	Sorghum bicolor	8 – 12	8	16
Sorghum				
Wild Oats	Avena fatua	2 – 6	8	16
Wild Proso Millet	Panicum miliaceum	2 – 10	8	16
Witchgrass	Panicum capillare	2 – 8	8	16
Woolly Cupgrass	Eriochloa villosa	2 – 8	8	16

*Generally occurs between 3-leaf stage and tillering

**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 nonionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gallons (0.25% v/v).

RECOMMENDATIONS FOR PERENNIAL GRASSES

- 1) Make application only to actively growing grasses at recommended weed heights.
- 2) Make application when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment
- 3) Use the higher rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	WEED HEIGHT (inches)	RATE 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 <i>(Elytrigia repens)</i>			
First Application	4 – 8	8	16
Repeat Application(s) (if regrowth occurs)	4 – 8	8	16
Rhizome Johnsongrass (Sorghum halepense)			
First Application	12 – 24	8	16
Repeat Application(s) (if regrowth occurs)	6 – 18	6	8
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 – 8	8	16
Repeat Application(s) (if regrowth occurs)	4 – 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 nonionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gallons (0.25% v/v).

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store product in original container only. Store in a cool, dry place. Do not store diluted spray. Do not contaminate water, other pesticides, fertilizer, food or feed in storage or cleaning of equipment. Open dumping is prohibited.

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 container. Do not reuse or refill this container. Triplerinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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. Do not reuse container.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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