



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 17, 2021

Tasha Lott  
Product Registration Manager  
Albaugh, LLC  
2906D N. Patterson St.  
Valdosta, GA 31604-2127

Subject: Registration Review Label Mitigation for CLETHODIM  
Product Name: CLETHODIM 26.4% EC  
EPA Registration Number: 42750-310  
Application Date: 02/02/2018  
Decision Number: 580721

Dear Ms. Lott:

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.

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If you have any questions about this letter, please contact Srijana Shrestha by phone at 202-566-2329, or via email at [shrestha.srijana@epa.gov](mailto:shrestha.srijana@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

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

Enclosure: Stamped Label

EDITOR'S NOTE: 5/4/18 label re-submittal (clean version)

CLETHODIM	GROUP	1	HERBICIDE
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## CLETHODIM 26.4% EC

**ACTIVE INGREDIENT:**

Clethodim\* ..... 26.4%

**OTHER INGREDIENTS:** ..... 73.6%

**TOTAL:** ..... 100.0%

Contains Petroleum Distillates

\*(E)-2-[1-[[[3-chloro-2-propenyl]oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one  
Contains 2.0 lb. clethodim per gallon.

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give <b>any</b> liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
HOT LINE NUMBER	
<b>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact EMERGENCY TELEPHONE NUMBERS:</b> (800) 424-9300 CHEMTREC (transportation and spills)	
<b>NOTE TO PHYSICIAN</b> - Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

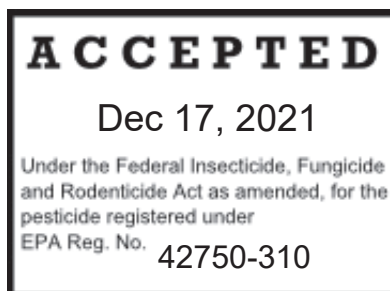
See inside label booklet for additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 42750-310

EPA Est. No. 42750-MO-001

**NET CONTENTS:** \_\_\_\_\_ gallons

Manufactured By:  
ALBAUGH, LLC  
ANKENY, IA 50021



## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton > 14 mils
- Shoes plus socks
- 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.

#### ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

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

**Solano Grass:** Solano County, California: the vernal lakes 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.

**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.

## PHYSICAL OR CHEMICAL HAZARDS

**Combustible.** Do not use or store near heat or open flame.  
Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

## 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.

Read the entire label before using this product. Use strictly in accordance with label precautionary statements and directions.

### AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

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

- Coveralls
- Chemical-resistant gloves such as Barrier Laminate or Viton > 14 mils
- Shoes plus socks
- Protective eyewear

### NON-AGRICULTURAL USE REQUIREMENTS

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

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

## PRODUCT INFORMATION AND INSTRUCTIONS

CLETHODIM 26.4% EC is a selective post-emergence herbicide for control of annual and perennial grasses.

CLETHODIM 26.4% EC does not control sedges or broadleaf weeds.

Control Symptoms: A reduction in vigor and growth is evident in treated grass weeds. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7-14 days depending on grass species treated and environmental conditions.

In some grass species, repeated use of CLETHODIM 26.4% EC (or similar post-emergence grass

herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products. A resistant biotype may be present if poor performance occurs and cannot be attributed to adverse weather or application conditions. This potential resistance will most likely occur in fields where other control strategies such as crop rotation, mechanical removal, and other classes of herbicides are not used from year-to-year.

Do not allow CLETHODIM 26.4% EC to contact desirable grass crops such as corn, rice, sorghum, small grains, or turf, as these and other grass crops will be injured or killed. Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.

CLETHODIM 26.4% EC is not for use on vegetable crops being grown for seed production unless specific use directions are provided in this label or through Supplemental Labeling.

Not all specialty varieties of vegetable crops on this label have been tested for tolerance to CLETHODIM 26.4% EC. It is advised that, before applying CLETHODIM 26.4% EC to specialty varieties of crops listed on this label, crop tolerance should be investigated first using a small section of the field. It is possible that injury symptoms may occur. Symptoms may appear as leaf speckling or stunting.

Best perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices, (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, result in a very staggered, non-uniform weed emergence. Under these conditions and due to such non-uniform weed emergence, make no fewer than two CLETHODIM 26.4% EC applications per year at the appropriate weed-growth stage rate under continuous no-till conditions.

## **APPLICATION INFORMATION**

### **Application Timing**

Apply CLETHODIM 26.4% EC post-emergence to actively growing grasses according to rate table directions in this label. Do not apply to grass plants under stress from insufficient moisture or cold temperatures, or to grass plants exceeding recommended growth stages as unsatisfactory control may result.

In arid regions where irrigation is used to supplement limited rainfall, CLETHODIM 26.4% EC should be applied as soon as possible after an irrigation (within 7 days). In arid regions, a second application of CLETHODIM 26.4% EC will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 - 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of CLETHODIM 26.4% EC may reduce weed control. DO NOT APPLY CLETHODIM 26.4% EC if rainfall is expected within 1 hour of application since control may be reduced.

### **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. Under the following conditions, a minimum of 10 gallons per acre is required: 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 applications. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

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

### **Aerial Application**

Use a minimum of 3 gallons of spray solution per acre unless otherwise directed on this label. As grass or crop foliage becomes dense, increase spray volume 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, air applications to onions, garlic or shallots should be made in a minimum of 20 gallons of spray solution per acre.

**NOTE:** Crop injury may occur when CLETHODIM 26.4% EC is applied to onions, garlic, or shallots with aerial equipment.

### **Spot Treatment**

When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/4% - 1/2% (0.33 oz. - 0.65 oz. per gallon) CLETHODIM 26.4% EC and spray to wet vegetation, while not allowing runoff of spray solution. For uses where a crop oil concentrate (COC) or methylated seed oil (MSO) are recommended, include the COC or MSO at 1% (1.3 oz. per gallon) by volume. For uses where a non-ionic surfactant is recommended, include the non-ionic surfactant at 1/4% (0.33 oz. per gallon) by volume.

**NOTE:** If CLETHODIM 26.4% EC is applied as a spot treatment, do not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.

## **USE RESTRICTIONS**

- Do not apply if rain is expected within 1 hour of application as unsatisfactory control may occur.
- Do not plant rotational crops until 30 days after application of CLETHODIM 26.4% EC unless crop is listed on CLETHODIM 26.4% EC label.
- Do not apply a post-emergence broadleaf herbicide within one day following application of CLETHODIM 26.4% EC or reduced grass control may result.
- Do not apply under conditions of stress. Applying CLETHODIM 26.4% EC under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive water, extremes in temperature, low humidity and grasses either partially controlled or stunted from prior pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate CLETHODIM 26.4% EC effectively, and will be less susceptible to herbicide activity.
- Do not allow CLETHODIM 26.4% EC to contact desirable grass crops such as corn, rice, sorghum, small grains, or turf, as these and other grass crops will be injured or killed. Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.
- Application in Nassau and Suffolk counties of New York State is restricted to no more than 16 fl. oz. of CLETHODIM 26.4% EC (0.25 lb. a.i.) per acre per year.
- Refer to crop specific Directions for Use for restrictions on:
  - Number of annual applications allowed per year
  - Maximum amount of product that may be applied per year per acre
  - Maximum single application rates
  - Minimum spray intervals between applications
- Aerial application for all Tree Fruits and Tree Nuts are prohibited.

## **CHEMIGATION INFORMATION**

This product may be applied to onions and garlic by sprinkler irrigation systems. **DO NOT** apply by chemigation to any other crop.

## SPRAY DRIFT DIRECTIONS

### **Aerial Applications:**

- Do not release spray at a height greater than 10 feet 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.I).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ 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 manufacturer's 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.

## **WEED RESISTANCE MANAGEMENT**

Some weeds are known to develop resistance to herbicides that have been used repeatedly. While the development of herbicide resistance is well understood, it is not easily predicted. Therefore, herbicides should be used in conjunction with the resistance management strategies in the area.

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 actions for each target weed.

If herbicide resistance should develop in the area, this product used alone may not continue to provide sufficient levels of weed control. If the reduced levels of control cannot be attributed to improper application techniques, improper use rates, improper application timing, unfavorable weather conditions or abnormally high weed pressure, a resistant strain of weeds may have developed.

### **Herbicide-resistant weeds may be identified by these indicators:**

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species

### **To reduce the potential for weed resistance:**

- Use this product in a rotation program with other classes of chemistry and modes of action.
- Always apply this product at the specified rates and in accordance with the use directions.
- Do not use less than specified label rates alone or in tank mixtures.
- Do not use reduced rates of the tank mix partner.
- For best results, this product should be applied when weeds are small.
- Scout fields carefully to determine the appropriate time for application.
- Scout fields carefully after application for performance in control of weeds.
- If resistance is suspected, contact the local or State agricultural advisors.

If resistance is suspected, contact the local or State agricultural advisors or your local Albaugh representative for assistance at 1-800-247-8013.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

## TANK MIXES

Always read and follow the entire label of each product to be used in the tank mix with this product. Always follow the most restrictive label language, including all crop rotation and other crop restrictions, for all products whether used alone, or in a tank mix.

Tank mixes of CLETHODIM 26.4% EC and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of CLETHODIM 26.4% EC may be necessary.

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

## PRODUCT INFORMATION

CLETHODIM 26.4% EC is for use on the following:

Alfalfa	Cavalo Broccolo	Dock
Amaranth	Celeriac	Eggplant
Arracacha	Celery	Endive
Arrowroot	Celery (Chinese)	Fallow Land
Artichoke	Celtuce	Fennel
Arugula	Chayote	Flax*
Asparagus	Chervil	Garlic
Bean (Various)	Chicory	Gerkin
Beets	Chinese Artichoke	Ginger
Bok Choy	Chinese Waxgourd	Ginseng
Broccoli	Christmas Trees	Gourd (Edible)
Broccoli (Chinese)	Chrysanthemum (edible)	Ground Cherry
Broccoli Raab	Chufa	Herbs (various)
Brussels Sprout	Clover**	Honeydew Melon
Burdock	Collards	Hops
Bushberry (Various)	Conifer Nurseries	Horseradish
Cabbage	Conifer Plantations	Jerusalem Artichoke
Caneberry (Various)	Corn (field)***	Kale
Canna	Corn Salad	Kohlrabi
Canola*	Cotton	Leek
Cantaloupe	Cranberry	Leren
Cardoon	Cress	Lettuce
Carrot	Cucumber	Melon (Citrus)
Cassava	Dandelion	Mint
Cauliflower	Dasheen (Taro)	Mizuna

Momordica	Pepper	Spices
Muskmelon	Potato	Spinach
Mustard Greens	Pumpkin	Squash
Mustard Seed*	Purslane	Strawberry
Mustard Spinach	Radicchio	Sugarbeet
Non-Bearing Fruit/Nut Crops	Radish	Sunflower
Non-Crop Areas	Radish (Oriental)	Sweet Potato
Non-Planted Areas	Rape Greens	Swiss Chard
Onion	Rhubarb	Tanier (Cocovam)
Orach	Rutabaga	Tomatillo
Ornamentals	Safflower	Tomato
Parsley	Salsify	Tumeric
Parsnip	Scallion	Turnip
Peach	Sesame	Turnip Greens
Peanut	Shallot	Watermelon
Pea (Various)	Skirret	Yam
Pepino	Soybean	

\*Not registered for use in California.

\*\*For use on clover grown in the states of Idaho, Oregon, and Washington only.

\*\*\* CLETHODIM 26.4% EC Herbicide is for use to control existing stands of field corn (including Roundup Ready™ corn) and for use prior to replanting corn.

## CHEMIGATION – ONIONS (Dry Bulbs and Green) AND GARLIC ONLY

### SPRINKLER IRRIGATION APPLICATION

- Do not apply CLETHODIM 26.4% EC by chemigation in the states of Idaho, Montana, Oregon and Washington.
- Do not apply CLETHODIM 26.4% EC by chemigation to any other crop besides onions and garlic.

Apply CLETHODIM 26.4% EC at the high rate specified for annual grasses (16 fl. oz./A) when the grass height is at the shorter end of the height range (application to taller grasses may not provide adequate control). Add a non-ionic surfactant at 0.25% v/v.

Apply CLETHODIM 26.4% EC in 0.1 - 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 specified volume 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 CLETHODIM 26.4% EC into 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.

Do not apply CLETHODIM 26.4% EC through an irrigation system connected to a public water system. A public water system is a system for the provision of piped water to the public for human consumption when such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

## USE PRECAUTIONS

1. Apply this product only through the following sprinkler irrigation systems: center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.
3. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
6. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
8. 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.
9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
10. 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.
11. 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.
12. Do not apply when wind speed favors drift beyond the area intended for treatment.

## ADJUVANT RECOMMENDATIONS

The addition of a crop oil concentrate or methylated seed oil or a non-ionic surfactant will improve the performance of CLETHODIM 26.4% EC. Crop oil concentrates and methylated seed oils can cause crop injury with certain tank mix partners or on sensitive crops. Under these circumstances, non-ionic surfactants (NIS) can be used in place of crop oil concentrates. Reduced weed control may result from use of non-ionic surfactant, instead of crop oil concentrates. Oil/nitrogen blend adjuvants may be substituted for crop oil concentrates or methylated seed oil at appropriate equivalent use rates. Under drought conditions, methylated seed oil adjuvants can be used in place of COCs to improve performance. Methylated seed oils can increase crop injury potential and care should be taken when considering their use. Ammonium sulfate (AMS) or urea-ammonium nitrate (UAN), and similar liquid foliar nitrogen fertilizers can improve control of hard to control grasses and help overcome potential antagonism from tank mix partners. The use of AMS or UAN is only allowed on specified crops and may increase the possibility of crop injury under some conditions.

Follow **TABLE 1** for **ADJUVANT USE INSTRUCTIONS**.

Follow **TABLE 2** for **CLETHODIM 26.4% EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS** for specific use guidelines.

**TABLE 1: ADJUVANT USE WITH CLETHODIM 26.4% EC HERBICIDE**

<b>Adjuvant</b>	<b>Adjuvant Use Rate</b>	<b>Comments</b>
COC (Crop Oil Concentrate) OR	1% v/v	Use with CLETHODIM 26.4% EC in most use patterns other than those listed directly below.
MSO (Methylated Seed Oil) OR	1% v/v	Use for improved control under drought conditions or other weed stress conditions. MSO can increase injury with some tank mix partners.
NON-IONIC SURFACTANT	0.25% v/v	Use where directed or where crop sensitivity is a concern.
OIL/NITROGEN BLEND	1% v/v	May be used in place of COC or MSO for enhanced efficacy where conditions and crops permit.
<b>Nitrogen Fertilizer<sup>1</sup></b>	<b>Use Rate</b>	<b>Comments</b>
Ammonium Sulfate (AMS) OR	1-4 lb./A or 8.5–18 lb./100 gallons of spray solution	Use for improved control of difficult grass species. AMS is not to be used on all crops.
28-32% Urea Ammonium Nitrate (UAN)	1-2 qt./A	Use when a source of AMS is not available.
<p><sup>1</sup> <b>The addition of liquid fertilizer is not recommended for the following crops:</b>                      Arracasha, Arrowroot, Artichoke, Asparagus, Beet, Broccoli, Broccoli Raab, Brussels Sprout, Burdock, Bushberry, Caneberry, Cabbage, Canna, Cardon, Carrot, Cassava, Cauliflower, Cavalo Broccolo, Celeriac, Celery, Celtuce, Chayote, Chervil, Chicory, Chufa, Collards, Cranberry, Cucurbits, Dasheen, Eggplant, Fennel, Garlic, Ginger, Ginseng, Ground Cherry, Herbs, Hops, Horseradish, Kale, Leeks, Leren, Mizuna, Mustard Greens, Mustard Seed, Non-Bearing Food Crops, Onion (dry bulb), Parsley, Parsnip, Peach, Pepino, Pepper, Pimento, Potato, Radish, Rape Greens, Rhubarb, Rutabaga, Salsify, Sesame, Shallots (dry bulb), Skirret, Spinach, Strawberry, Sweet Potato, Swiss Chard, Tanier, Tomatillo, Turmeric, Turnip and Yam.</p>		

**TABLE 2: CROP SPECIFIC USE DIRECTIONS, RESTRICTIONS  
AND LIMITATIONS FOR CLETHODIM 26.4% EC**

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Alfalfa including: Seedling or Established Alfalfa Sainfoin Holy Clover Birdsfoot Trefoil	15 days before grazing, feeding or harvesting (cutting) for forage or hay	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	For weed control in established alfalfa, the minimum use rate is 10 fl. oz./A.  This product may be applied to alfalfa grown for seed, hay, silage, green chop, or direct grazing.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Do not plant rotational crops until 30 days after application of CLETHODIM 2E</li> <li>• Do not apply CLETHODIM 26.4% EC 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.</li> </ul>
Artichoke (Globe)	5 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Asparagus	1 day	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Beans, Dry including: Bean ( <i>Lupinus spp.</i> ) Grain Sweet			COC/MSO at 1% v/v or NIS at 0.25% v/v	Refer to Table 9 for reduced rate directions for the control of small annual grasses.  The addition of AMS has shown

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
White White Sweet Bean ( <i>Phaseolus spp.</i> ) Field Kidney Lima (dry) Navy Pinto Tepary Bean ( <i>Vigna spp.</i> ) Adzuki Bean Black-eyed Pea Catjang Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Broad (dry) Chickpea (garbanzo) Guar Lablab Bean Lentil	30 days	6-16 fl. oz.	AMS at 1-4 lb./A	improved grass control for difficult to control species including: quackgrass, Rhizome Johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 16 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Bean, Succulent including: Bean ( <i>Phaseolus spp.</i> ) Broad Bean (succulent) Lima Bean (green) Bean ( <i>vigna spp.</i> ) Black-eyed Pea Cowpea Southern Pea	21 days	6-8 fl. oz.	NIS at 0.25% v/v	Refer to Table 9 for reduced rate directions for the control of small annual grasses.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A in a single application.</li> <li>Do not make more than 1 application per year.</li> <li>Do not apply more than 8 fl. oz. (0.125 lbs a.i.) per acre per year.</li> </ul>
Beet, Garden	30 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Brassica Vegetables, Head and Stem including: Broccoli	30 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Cabbage Cauliflower Brussels Sprouts				<ul style="list-style-type: none"> <li>Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Bushberry, including: Aronia berry Blueberry, Highbush Chilean Guava Cranberry, Highbush Currant, Black Currant, Buffalo Currant, Native Currant, Red Elderberry European Barberry Gooseberry Honeysuckle, edible Huckleberry Jostaberry Juneberry Saskatoon berry Native currant Salai Sea Buckthorn Cultivars, varieties and/or hybrids of these	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<p>Apply at the base of the plant where grassy weeds are growing near the ground.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> <li>Do not apply to low growing berries.</li> <li>Do not apply to Bushberry grown for root stock.</li> </ul>
Caneberry, including: Blackberry Loganberry Raspberry, black Raspberry, red Raspberry, wild Cultivars, varieties and/or hybrids of these.	7 days	6-8 fl. oz.	NIS at 0.25% v/v	<p>Apply at the base of the plant where grassy weeds are growing near the ground.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> <li>Do not apply to low growing berries.</li> <li>Do not apply to Caneberry grown for root stock.</li> </ul>
Canola* *Not for use in California unless accompanied by a supplemental label	70 days	4-6 fl. oz.	NIS at 0.25% v/v	<p>Crop injury may occur when CLETHODIM 26.4% EC is applied during the bloom period.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 6 fl. oz./A in a single application.</li> </ul>



Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
				<ul style="list-style-type: none"> <li>Do not make more than 2 applications per year.</li> <li>Do not apply more than 6 fl. oz. (0.094 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> <li>Do not apply after crop has begun bolting.</li> </ul>
Carrot	30 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 8 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Clover	15 days before grazing, feeding, or harvesting (cutting) for forage or hay	6-16 fl. oz.	NIS at 0.25% v/v	<p>For use on clover grown in Idaho, Oregon, and Washington only.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 16 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 16 fl. oz. (0.25 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Corn, Field For burn down of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn See Directions for Use in Roundup Ready Field Corn (Burn down) in Table 6.	90 days	3 fl. oz.	COC/MSO at 1% v/v  plus AMS at 1-4 lb./A	<p>To control the existing stand, replant no sooner than 6 days after application.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 3 fl. oz./A in a single application.</li> <li>Do not make more than 1 application per year.</li> </ul> <p>Do not apply more than 3 fl. oz. (0.023 lbs a.i.) per acre per year.</p>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Cotton	60 days	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Do not graze treated fields or feed treated forage or hay to livestock.</li> </ul>
Cranberry	30 days	6-8 fl. oz.	NIS at 0.25% v/v	Do not apply between the “hook” stage and full fruit set.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Cucurbits, including: Cantaloupes (all) Chayote (fruit) Chinese Wax Gourd Citron Melon Cucumber Gherkin Gourd, edible Honeydew Melon Muskmelons (all) Pumpkin Squash (all) Watermelon	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Fallow Land Conifer Trees (and other non-producing agricultural areas) Non-Crop or Non-Planted Areas	N/A	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Do not plant any crop for 30 days after application unless CLETHODIM 26.4% EC is registered for use on that crop.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Flax* *Not for use in California unless accompanied by a supplemental label	60 days	6-8 fl. oz.	NIS at 0.25% v/v	Apply prior to bloom.  Crop injury may occur when CLETHODIM 26.4% EC is applied during the bloom period.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 16 fl. oz. (0.25 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Fruiting Vegetables (except Tomato), including: Eggplant Groundcherry Pepino Peppers (all) Tomatillo	20 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Garlic	45 days	6-16 fl. oz.	NIS at 0.25% v/v	Use a minimum of 20 gallons per acre spray volume by ground.  Use a minimum of 10 gallons per acre spray volume by air in all states except California.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• For ground and air applications, do not exceed 8 fl. oz./A in a single application.</li> <li>• Do not exceed 2 applications per year.</li> <li>• For spot treatment, do not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Garlic* *California Only	45 days	6-16 fl. oz.	NIS at 0.25 v/v	<p>Use a minimum of 20 gallons per acre spray volume by ground.</p> <p>Use a minimum of 10 gallons per acre spray volume by air.</p> <p>Observe a minimum of 14 days between applications of CLETHODIM 26.4% EC and liquid nitrogen or other herbicide applications. Injury to the crop may occur when shorter intervals are observed.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• For ground and air applications, do not exceed 8 fl. oz./A in a single application.</li> <li>• Do not apply CLETHODIM 26.4% EC until the crop has at least two full leaves.</li> <li>• For spot treatment, do not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>
Garlic	For chemigation refer to the instructions found under the section titled <b>CHEMIGATION – ONIONS (Dry Bulbs and Green) AND GARLIC ONLY</b>			

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Herbs including: Angelica Balm Basil Borage Bumet Camomile Catnip Chervil (dried) Chive Chive, Chinese Clary Coriander (leaf) Costmary Cilantro (leaf) Curry (leaf) Dill (dillweed) Horehound Hyssop Lavender Lovage (leaf) Marigold Marjoram (Origanum spp.) Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Savory, Summer and Winter	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<p>CLETHODIM 26.4% EC has not been tested on all herbs and herb varieties. It is the responsibility of the user to test CLETHODIM 26.4% EC on a small portion of the crop to be treated before treating the entire field.</p> <p>Crop tolerance to CLETHODIM 26.4% EC should be verified on a small area of the herb crop, at the specified CLETHODIM 26.4% EC rate and with the same NIS that will be used on the herb field. Grass control may be acceptable without the addition of an adjuvant. If no crop response is evident seven (7) days after treatment, CLETHODIM 26.4% EC may be used on the entire field at the rate tested and with the same crop oil used in the tolerance test.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Hops	21 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Leafy Petioles including: Cardoon Celery Celtuce Chinese Celery Fennel, Florence (finocchio) Rhubarb Swiss Chard	30 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Leafy Brassica Greens including: Broccoli Raab Cabbage, Chinese (Bok Choy) Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens Turnip Greens	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Leafy Greens including: Amaranth Chinese Spinach Leafy Amaranth Tampala Arugula (roquette) Chervil Chrysanthemum, Garland Corn Salad Cress Garden Upland (yellow rock and winter) Dandelion Dock (sorrel) Endive (escarole) Lettuce, Head and Leaf Orach Parsley Purslane Garden Winter Radicchio (red chicory) Spinach New Zealand Vine (Indian and Malabar)	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Leafy Greens including: Lettuce, Head and Leaf	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications, allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Legume Vegetables, Edible Podded including: Bean ( <i>Phaseolus spp.</i> ) Runner Snap Wax Bean ( <i>Vigna spp.</i> ) Asparagus Chinese Longbean Moth Yardlong Jackbean Pea ( <i>Pisum spp.</i> ) Dwarf Edible pod Snow Sugar Snap Pigeon Sword Bean	21 days	6-8 fl. oz.	NIS at 0.25% v/v	For peas apply before bloom, but no later than 21 days before harvest.  Refer to Table 9 for reduced rate directions for the control of small annual grasses.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 1 application per year.</li> <li>• Do not apply more than 8 fl. oz. (0.125 lbs a.i.) per acre per year.</li> </ul>
Mint	21 days	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	See Table 8 for further instructions.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Mustard Seed* *Not for use in California unless accompanied by a supplemental label	75 days	4-6 fl. oz.	NIS at 0.25% v/v	Do not apply after crop has begun bolting. Crop injury may occur when CLETHODIM 26.4% EC is applied during the bloom period.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 6 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 16 fl. oz. (0.25 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>



Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Onions (Dry Bulbs Only)	45 days	6-16 fl. oz.	NIS at 0.25% v/v	<p>Use a minimum of 20 gallons per acre spray volume by ground.</p> <p>Use a minimum of 10 gallons per acre spray volume by air in all states except California.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single ground application.</li> <li>• Do not exceed 8 fl. oz./A in a single aerial application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• For spot treatment, do not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.</li> </ul>
<p>*Onions (Dry Bulbs Only)</p> <p>*California Only</p>	45 days	6-16 fl. oz.	NIS at 0.25%v/v	<p>Use a minimum of 20 gallons per acre spray volume by ground.</p> <p>Use a minimum of 20 gallons per acre spray volume by air.</p> <p>Observe a minimum of 14 days between applications of CLETHODIM 26.4% EC and liquid nitrogen or other herbicide applications. Injury to the crop may occur when shorter intervals are observed.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single ground application.</li> <li>• Do not exceed 8 fl. oz./A in a single aerial application.</li> <li>• Do not apply CLETHODIM 26.4% EC until the crop has at least two full leaves.</li> <li>• Do not exceed 2 aerial applications per year.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• For spot treatment, do not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Onions (Dry Bulbs and Green)	For chemigation, refer to the instructions found under the section titled <b>CHEMIGATION – ONIONS (Dry Bulbs and Green) AND GARLIC ONLY</b>			
Onions, Green including: Green Eschalots Green Shallots Japanese Bunching Onions Leeks Scallions or Spring Onions	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Ornamentals	N/A	6-8 fl. oz.	NIS at 0.25% v/v	If CLETHODIM 26.4% EC is applied as a spot treatment, care should be taken to not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.
Non-Bearing Food Crops	N/A	6-8 fl. oz.		Refer to instructions found under the section titled “ <b>NON-BEARING FOOD CROPS</b> ”.  <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Sugar maples cannot be tapped for syrup within one year of CLETHODIM 26.4% EC application.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Pea, Dry including: Pea ( <i>Pisum spp.</i> ) Field Pigeon	30 days	6-8 fl. oz.	NIS at 0.25% v/v	<p>Refer to Table 9 for reduced rate directions for the control of small annual grasses.</p> <p>The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 1 application per year.</li> <li>• Apply before bloom but not later than 30 days prior to harvest.</li> <li>• Do not apply more than 8 fl. oz. (0.125 lbs a.i.) per acre per year.</li> </ul>
Peas, Succulent including: Pea ( <i>Pisum spp.</i> ) English Pea Garden Pea Green Pea Pigeon Pea	21 days	6-8 fl. oz.	NIS at 0.25% v/v	<p>Applications of CLETHODIM 26.4% EC to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.</p> <p>•Refer to Table 9 for reduced rate directions for the control of small annual grasses.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 1 application per year.</li> <li>• Apply before bloom but not later than 21 days prior to harvest.</li> <li>• Do not apply more than 8 fl. oz. (0.125 lbs a.i.) per acre per year.</li> </ul>
Peach	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Do not apply to Peach grown for root stock.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Peanut (including Perennial)	40 days	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	<p>The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Potato	30 days	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Radish	15 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 16 fl. oz. (0.25 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Root Vegetables (except Radish), including: Chicory Ginseng Horseradish Turnip	30 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Safflower	70 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Sesame	14 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Do not apply during flowering.</li> </ul>
Shallots (Dry Bulbs Only)	45 days	6-16 fl. oz.	NIS at 0.25% v/v	<p>Use a minimum of 20 gallons per acre spray volume by ground.</p> <p>Use a minimum of 10 gallons per acre spray volume by air in all states except California. For spot treatment, do not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• For ground and air applications, do not exceed 16 fl. oz./A in a single application.</li> <li>• Do not exceed 2 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications make on a minimum of a 14 day interval</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
<p>*Shallots (Dry Bulbs Only)</p> <p>*California Only</p>	45 days	6-16 fl. oz.	NIS at 0.25% v/v	<p>Use a minimum of 20 gallons per acre spray volume by ground.</p> <p>Use a minimum of 20 gallons per acre spray volume by air.</p> <p>For spot treatment, do not exceed the maximum rate allowed on a “per acre” basis or crop injury may occur.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• For ground and air applications, do not exceed 8 fl. oz./A in a single application.</li> <li>• Do not exceed 2 applications per year.</li> <li>• Do not apply more than 16 fl. oz. (0.25 lbs a.i.) per acre per year.</li> <li>• For repeat applications make on a minimum of a 14 day interval</li> </ul>
Soybean	60 days	3-16 fl. oz.	<p>COC/MSO at 1% v/v or NIS at 0.25% v/v</p> <p>AMS at 1-4 lb./A</p>	<p>Refer to Table 9 for reduced rate directions for the control of small annual grasses.</p> <p>Refer to Table 7 for reduced rate directions for the control of volunteer corn according to corn height.</p> <p>Lowest use rate may not be effective on hard to control grass species.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> <li>• Do not graze treated fields or feed treated forage or hay to livestock.</li> </ul>
Strawberry	4 days	6-8 fl. oz.	NIS at 0.25% v/v	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 8 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Sugarbeet	40 days	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	<p>Refer to Table 9 for reduced rate directions for the control of small annual grasses.</p> <p>Do not apply more than 32 fl. oz./A in a year.</p> <p>Refer to the instructions found in the section titled "Directions for Micro-Rate Applications to Sugarbeets".</p> <p>The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 2 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (1.0 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Sunflower	70 days	6-16 fl. oz.	COC/MSO at 1% v/v or NIS at 0.25% v/v  AMS at 1-4 lb./A	<p>The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 16 fl. oz./A in a single application.</li> <li>• Do not make more than 4 applications per year.</li> <li>• Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>• For repeat applications allow a minimum 14-day interval between applications.</li> </ul>

Crops	Minimum Time from Application to Harvest (PHI)	Use Rates Per Acre	Adjuvant and/or AMS Use Instructions	Special Use Instructions and Restrictions
Sweet Potato, Yam and other tuberous and corm vegetables (except Potato), including: Artichoke – Chinese, Jerusalem Cassava – Bitter, Sweet Ginger	30 days	6-16 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 16 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> </ul>
Tomato	20 days	6-16 fl. oz.	NIS at 0.25% v/v	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than 16 fl. oz./A in a single application.</li> <li>Do not make more than 4 applications per year.</li> <li>Do not apply more than 16 fl. oz. (0.25 lbs a.i.) per acre per year.</li> <li>For repeat applications allow a minimum 14-day interval between applications.</li> </ul>

#### NON-BEARING FOOD CROPS

Do not apply CLETHODIM 26.4% EC to non-bearing fruit or nut crops that are grown for root stock.

Crop injury to non-bearing fruit and nut crops can occur if CLETHODIM 26.4% EC is improperly applied. CLETHODIM 26.4% EC should not be applied directly over the top of these plant types. Instead, spray should be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants that will not bear fruit or nuts for at least one year following CLETHODIM 26.4% EC application.

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



COMMON NAME	SCIENTIFIC NAME
Walnut	<i>Juglans spp.</i>

**RESTRICTIONS:**

- Do not apply more than 8 fl. oz./A in a single application.
- Do not make more than 4 applications per year.
- Do not apply more than 32 fl. oz. (0.5 lbs a.i.) per acre per year.
- For repeat applications allow a minimum 14-day interval between applications.

**CONIFER TREES**

CLETHODIM 26.4% EC 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	<i>Thuja occidentalis</i>
Cedars	<i>Cedrus spp.</i>
Cypress	<i>Taxodium spp.</i>
Douglas Fir	<i>Pseudotsuga menziesii</i>
Firs	<i>Abies spp.</i>
Hemlock, Canadian/Eastern	<i>Tsuga canadensis</i>
Hemlock, Western	<i>Tsuga heterophylla</i>
Pines	<i>Pinus spp.</i>
Spruces	<i>Picea spp.</i>
Yew	<i>Taxus spp.</i>

**RESTRICTIONS:**

- Do not apply more than 16 fl. oz./A in a single application.
- Do not make more than 4 applications per year.
- Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.
- For repeat applications allow a minimum 14-day interval between applications.

**NON-CROP OR NON-PLANTED AREAS**

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

**TABLE 3: DIRECTIONS FOR ANNUAL GRASSES**  
(EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)

Apply only to actively growing grasses at recommended weed heights.

Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.

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

Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./A)	High Rate <sup>(4)</sup>
<b>Barnyardgrass</b>	<i>Echinochloa crus-galli</i>	2-8	6	8
<b>Broadleaf Signalgrass</b>	<i>Brachiaria platyphylla</i>	2-6	6	8
<b>Brome</b>				
California	<i>Bromus carinatus</i>	2-6	6	8
Cheatgrass	<i>Bromus secalinus</i>	2-6	6	8
Downy	<i>Bromus tectorum</i>	2-6	6	8
Ripgut	<i>Bromus diandrus</i>	2-6	6	8
<b>Canarygrass</b>	<i>Phalaris canariensis</i>	1-4	6	8
<b>Crabgrass</b>				
Hairy	<i>Digitaria adscendens</i>	2-6**	6	8
Large	<i>Digitaria sanguinalis</i>	2-6**	6	8
Smooth	<i>Digitaria ischaemum</i>	2-6**	6	8
Southern	<i>Digitaria ciliaris</i>	2-6**	6	8
<b>Crowfootgrass</b>	<i>Dactyloctenium aegyptium</i>	2-6**	6	8
<b>Fall Panicum</b>	<i>Panicum dichotomiflorum</i>	2-8	6	8
<b>Field Sandbur</b>	<i>Cenchrus incertus</i>	2-6	6	8
<b>Foxtail</b>				
Giant	<i>Setaria faberi</i>	2-12	6	8
Green	<i>Setaria viridis</i>	2-8	6	8
Yellow	<i>Setaria glauca</i>	2-8	6	8
<b>Goosegrass</b>	<i>Eleusine indica</i>	2-6**	6	8
<b>Itchgrass</b>	<i>Rottboellia exaltata</i>	2-6	6	8
<b>Junglerice</b>	<i>Echinochloa colona</i>	2-6	6	8
<b>Lovegrass (Stinkgrass)</b>	<i>Eragrostis cilianensis</i>	2-6	6	8
<b>Rabbitsfootgrass</b>	<i>Polypogon monspeliensis</i>	1-4	6	8
<b>Red Rice</b>	<i>Oryza sativa</i>	1-3	6	8
<b>Ryegrass</b>				
Hardy	<i>Lolium remotum</i>	2-6	6	8
Italian	<i>Lolium multiflorum</i>	2-6	6	8
<b>Seedling Johnsongrass</b>	<i>Sorghum halepense</i>	4-10	6	8
<b>Shattercane</b>	<i>Sorghum bicolor</i>	6-18	6	8
<b>Southwestern Cupgrass</b>	<i>Eriochlola gracillis</i>	2-6	6	8
<b>Sprangletop</b>				
Amazon	<i>Leptochloa panicoides</i>	2-6	6	8
Bearded	<i>Leptochloa fascicularis</i>	2-6	6	8
Mexican	<i>Leptochloa uninervia</i>	2-6	6	8
Red	<i>Leptochloa filiformis</i>	2-6	6	8
<b>Texas Panicum</b>	<i>Panicum texanum</i>	2-6	6	8
<b>Volunteer Cereals <sup>(3)</sup></b>				
Barley	<i>Hordeum vulgare</i>	2-6	6	8
Oats	<i>Avena sativa</i>	2-6	6	8
Rye	<i>Secale cereale</i>	2-6	6	8
Wheat	<i>Triticum aestivum</i>	2-6	6	8
<b>Volunteer Corn <sup>(2)</sup></b>	<i>Zea mays</i>	4-12	3	6
<b>Volunteer Corn (S.R.) <sup>(1)</sup></b>	<i>Zea mays</i>	4-12	8	(suppression only)
<b>Volunteer Corn <sup>(2)</sup></b>	<i>Zea mays</i>	12-24	4	8
<b>Volunteer Grain Sorghum</b>	<i>Sorghum bicolor</i>	8-12	6	8
<b>Wild Oats</b>	<i>Aven fatua</i>	2-6	6	8

Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./A)	High Rate <sup>(4)</sup>
<b>Wild Proso Millet</b>	<i>Panicum miliaceum</i>	2-10	6	8
<b>Witchgrass</b>	<i>Panicum capillare</i>	2-8	6	8
<b>Woolly Cupgrass</b>	<i>Eriochloa villosa</i>	2-8	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) When the cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum CLETHODIM 26.4% EC use rate for control is 8 fl. oz./A.

(4) Rates higher than 8 fl. oz./A may be applied in certain geographic areas, environmental conditions, or cropping situations, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 8 - 16 fl. oz./A may be applied. Do not apply more than 8 fl. oz./A of CLETHODIM 26.4% EC per application to the following crops: asparagus, carrot, cranberry, cucurbit, flax, fruiting vegetables (except tomato), garden beet, green onion, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl. oz./A of CLETHODIM 26.4% EC per application to canola or mustard seed.

**TABLE 4: DIRECTIONS FOR PERENNIAL GRASSES**

- Make applications only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate when grasses are at maximum height and/or under heavy grass pressure.

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./A)	High Rate
<b>Bermudagrass</b>	<i>Cynodon dactylon</i>			
First Application		3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)		3 (or up to 6" runners)	8	16
<b>Fescue, tall</b>	<i>Festuca arundinacea</i>			
First Application		4-8	8	16
Repeat Application(s) (if regrowth occurs)		4-8	8	16
<b>Foxtail Barley</b>	<i>Hordeum jubatum</i>			
First Application		2-6	8	16
Repeat Application(s) (if regrowth occurs)		2-6	8	16
<b>Orchardgrass</b>	<i>Dactylis glomerata</i>			
First Application		4-8	8	16
Repeat Application(s) (if regrowth occurs)		4-8	8	16
<b>Quackgrass*</b>	<i>Elytrigia repens</i>			
First Application		4-12	8	16

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./A)	High Rate
Repeat Application(s) (if regrowth occurs)		4-12	8	16
<b>Rhizome Johnsongrass</b>	<i>Sorghum halepense</i>			
First Application		12-24	8	16
Repeat Application(s) (if regrowth occurs)		6-18	6	8
<b>Wirestem Muhly</b>	<i>Muhlenbergia frondosa</i>			
First Application		4-8	8	16
Repeat Application(s) (if regrowth occurs)		4-8	8	16
<b>Perennial Bluegrass*</b>				
Roughstalk	<i>Poa trivialis</i>			
Kentucky	<i>Poa prantensis</i>			
First Application		2-4	8	16
Repeat Application(s) (if regrowth occurs)		2-4	8	16
<b>Bentgrass*</b>	<i>Agrostis spp.</i>			
First Application		2-4	-	16
Repeat Application(s) (if regrowth occurs)		2-4	-	16

\*Control of quackgrass, perennial bluegrass and bentgrass with CLETHODIM 26.4% EC may be enhanced by adding AMS at 2.5 - 4.0 lb./A.

**RESTRICTIONS:**

- Do not apply more than 16 fl. oz./A in a single application.
- Do not make more than 4 applications per year.
- Do not apply more than 64 fl. oz. (1.0 lbs a.i.) per acre per year.
- For repeat applications allow a minimum 14-day interval between applications.

**TABLE 5: DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH CLETHODIM 26.4% EC**

Grass Species	Scientific Name	Weed Stage	Rate (fl. oz./A)	High Rate
<b>Annual Bluegrass</b>	<i>Poa annua</i>	to 4-Leaf	6*	16

\*Use a minimum of 8 fl. oz./A to control annual bluegrass in seedling and established alfalfa and mint.

1. Grass needs to be actively growing at time of application(s). Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within 7 days after irrigation.
2. Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.
3. Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.
4. Always add a crop oil concentrate at 1 qt./A by ground to the finished spray volume.

**TABLE 6: DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN)**

USE DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN)		
APPLICATIONS RATES		
GRASS SPECIES	WEED SIZE (inches)	Rate when applied alone or with glyphosate
Field Corn	Up to 12	2 fl. oz./A
<p>For control of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn.                      Care must be taken to avoid in-field boom (spray) overlaps or excessive crop injury may occur.                      Replant no sooner than 6 days after application.                      Adjuvant recommendations: COC/MSO at 1% v/v plus AMS at 1-4 lb./A.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 3 fl. oz./A in a single application.</li> <li>• Do not make more than 1 application per year.</li> <li>• Do not apply more than 3 fl. oz. (0.023 lbs a.i.) per acre per year.</li> </ul>		

**TABLE 7: DIRECTIONS FOR ROUNDUP READY VOLUNTEER CORN CONTROL IN ROUNDUP READY SOYBEANS WITH CLETHODIM 26.4% EC HERBICIDE TANK MIX**

Roundup Ready Volunteer Corn Height (inches)	CLETHODIM 26.4% EC Rate fl. oz./A	Glyphosate <sup>(1)</sup> Rate	Adjuvant
<12	3	1- 2 lb. ai./A (Approximately equivalent to 22-44 fl. oz./A of Roundup WeatherMAX® or 32-64 fl. oz./A of most generic glyphosate formulations)	COC, MSO, Oil-Nitrogen Blends, or NIS <sup>(2)</sup> may be used in this pattern. See Table 1 for appropriate rates. Use AMS or a suitable replacement at 8.5–17 lb. per 100 gallons of carrier volume.
12-18	4		
>18-24	5		

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

(2) Reduced weed control may result from the use of a non-ionic surfactant.

**TABLE 8: DIRECTIONS FOR ANNUAL AND PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT WITH CLETHODIM 26.4% EC**

Grass Species	Weed Stage	Rate (fl. oz./A)	High Rate (fl. oz./A)
See Annual Grasses in Table 3 and Perennial Grasses Listed in Table 4	See Tables 3 and 4 for Annual and Perennial Weed Stage Information	10	16

**Mowing:** The best control of annual grasses can be achieved by applying CLETHODIM 26.4% EC before grass weeds are mowed. Once a grass is mowed it becomes tougher to control, as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses, even though they may be an annual grass, may require repeated application of CLETHODIM 26.4% EC for partial or complete control.

**Irrigated Alfalfa and Mint:** In established alfalfa and mint, irrigation practices can be very critical to the successful use of CLETHODIM 26.4% EC and may be necessary to initiate active growth of the weeds prior to application. Generally applications 2-4 days following irrigation are most effective. More consistent grass control occurs when the irrigation occurs before the application is made but irrigation shortly after application (2 days) can be effective.

**Aerial Application:** Apply CLETHODIM 26.4% EC in a minimum of 10 GPA in established alfalfa and mint when applying by air.

**Annual Grass Control:** Apply CLETHODIM 26.4% EC at the grass sizes indicated in the Use Directions for Annual Grass Table and rates indicated above (10-16 fl. oz./A). If a grass has been cut, apply CLETHODIM 26.4% EC after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring and summer germinating plants, while others are fall germinating plants, and the time they are actively growing and most susceptible to CLETHODIM 26.4% EC may vary from region to region. Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule, spray spring and summer germinating grasses as early in the season as possible, after initial green-up. Spray fall germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth, or the onset of flowering.

**Perennial Grass Control:** CLETHODIM 26.4% EC 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 when grasses are at or near maximum height and/or under heavy grass pressure.

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.

**TABLE 9: DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES IN CANOLA, DRY BEAN AND DRY PEA (INCLUDING SOYBEANS), EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT BEAN AND PEA AND SUGARBEET**

- Make applications only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Regrowth by tillering may occur if application is made when plants are stressed by lack of moisture, excessive moisture, and low temperatures and/or under very low humidity.

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./A) <sup>(1)</sup>
<b>Barnyardgrass</b>	<i>Echinochloa crus-galli</i>	1-4	4
<b>Broadleaf Signalgrass</b>	<i>Brachiaria platyphylla</i>	1-4	5
<b>Crabgrass</b>			
Large	<i>Digitaria sanguinalis</i>	1-3*	4
Large	<i>Digitaria sanguinalis</i>	1-4*	5
Smooth	<i>Digitaria ischaemum</i>	1-3*	4
Smooth	<i>Digitaria ischaemum</i>	1-4*	5
Southern	<i>Digitaria ciliaris</i>	1-4*	5
<b>Fall Panicum</b>	<i>Panicum dichotomiflorum</i>	1-4	4

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./A) <sup>(1)</sup>
<b>Foxtail</b>			
Giant	<i>Setaria faberi</i>	1-4	4
Green	<i>Setaria viridis</i>	1-4	4
Millet	<i>Setaria italic</i>	1-4	5
Yellow	<i>Setaria glauca</i>	1-4	4
<b>Seedling Johnsongrass</b>	<i>Sorghum halepense</i>	1-6	5
<b>Shattercane</b>	<i>Sorghum bicolor</i>	4-10	4
<b>Texas Panicum</b>	<i>Panicum texanum</i>	1-4	5
<b>Volunteer Cereals</b>			
Barley	<i>Hordeum vulgare</i>	1 - 4	5
Oats	<i>Avena sativa</i>	1 - 4	5
Wheat	<i>Triticum aestivum</i>	1 - 4	5
<b>Volunteer Corn**</b>	<i>Zea mays</i>	4-12	2
<b>Wild Oats</b>	<i>Avena fatua</i>	1-4	5
<b>Wild Proso Millet</b>	<i>Panicum miliaceum</i>	1-6	4

\* Length of lateral growth

\*\* Not sethoxydim resistant corn

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

### TANK MIXES

The labels for each of the pesticides recommended for tank mixing with CLETHODIM 26.4% EC are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the CLETHODIM 26.4% EC label in certain considerations. These may include, but are not limited to:

1. Geographic restrictions – not all products are registered for use in all areas and rates may vary from one region of labeled use to another
2. Crop rotation restrictions
3. Applicator certification requirements
4. Worker safety rules (i.e., protective clothing requirements, reentry time)
5. Soil type or soil characteristics
6. Maximum application rate or number of applications allowed per year
7. Rain-free period required
8. Application timing (E.G., PRE-HARVEST INTERVAL)
9. Do not exceed the total yearly rates.

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

### TANK MIX APPLICATION OF CLETHODIM 26.4% EC AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Apply when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment.
- Apply under favorable soil moisture and humidity, which exist a few days after rainfall or within seven days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank mix combination.
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop

injury as compared to either product used alone. If regrowth occurs, or an additional flush of new grass emerges, make a second application of CLETHODIM 26.4% EC as specified in the respective size and rate tables.

- Do not tank mix CLETHODIM 26.4% EC when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

## **MIXING INSTRUCTIONS**

Use the jar test to verify mixing and compatibility properties. Maintain agitation throughout the spray application. Unsatisfactory weed control may result due to improper mixing if continuous agitation is not maintained during application.

### **CLETHODIM 26.4% EC MIXING INSTRUCTIONS:**

1. Fill clean spray tank 1/2-2/3 of desired level with clean water
2. While agitating, add the specified amount of CLETHODIM 26.4% EC post-emergence grass herbicide. Agitation should be vigorous enough to be visible on the surface of the water.
3. If tank mixing CLETHODIM 26.4% EC with other labeled herbicides, add water soluble packets first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
4. Add any required adjuvants (NIS, COC/MSO, and/or nitrogen or AMS solution).
5. Add any drift reduction products, such as IN-PLACE or CROSSHAIR.
6. Finish filling spray tank to the desired level with water. Agitation should continue until the spray solution has been applied in its entirety.

## **INFORMATION ON ANTAGONISM**

Tank mixes of CLETHODIM 26.4% EC with post-emergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when CLETHODIM 26.4% EC is applied alone. Activity of the post-emergence broadleaf herbicide in the tank mix is not affected.

### **DIRECTIONS FOR MICRO-RATE APPLICATIONS TO SUGARBEETS**

Multiple micro-rate applications of CLETHODIM 26.4% EC in tank mixtures will reduce rates of Betanex® or Betamix® and methylated seed oils may be applied by air or ground equipment to sugarbeets to control early germinating annual grasses listed above. The rate of Betanex or Betamix must not exceed 0.12 lb. ai/A (broadcast application) when in combination with these spray adjuvants. Note that maximum rate allowed varies depending on crop growth stage. The use of wetting agents or spray adjuvants with conventional rates (0.73-1.22 lb. ai/A) or multiple low rate (0.24-0.73 lb. ai/A) applications of Betanex or Betamix is prohibited on the Betanex or Betamix master label. Favorable climatic conditions (good conditions for plant growth and development) are essential for adequate weed control. All use precautions and restrictions on the Betanex or Betamix master labels must be followed.

### **DIRECTIONS FOR MICRO-RATE MULTIPLE APPLICATIONS OF CLETHODIM 26.4% EC TANK MIXES TO SUGARBEETS**

Apply CLETHODIM 26.4% EC in broadcast applications only at a rate of 2-3 fl. oz./A in tank mixtures with either Betanex or Betamix following the directions for use on the tank mix partner label. A minimum of 3 sequential applications of 2 fl. oz./A or a minimum of 2 sequential applications of 3 fl. oz./A should be utilized for CLETHODIM 26.4% EC tank mixtures. A minimum of 3 sequential applications of Betanex or Betamix should be used. Accurate timing is essential; make initial application immediately after weeds emerge, and make repeat applications on 5 - 7 day intervals. If weed control is not adequate due to climatic conditions, spray coverage or other factors, return to conventional application rates of CLETHODIM 26.4% EC (6 - 8 fl. oz./A) and add rates of Betanex or Betamix in tank mixtures with CLETHODIM 26.4% EC. A spray adjuvant is not recommended.



**USE PRECAUTIONS FOR MICRO-RATE APPLICATIONS: (SEE CLETHODIM 26.4% EC, BETANEX AND BETAMIX MASTER LABEL FOR FURTHER USE PRECAUTIONS)**

Not all weeds will be adequately controlled, even with favorable climatic conditions. Conventional rate of CLETHODIM 26.4% EC, Betanex or Betamix and/or hand labor may be required if multiple micro-rate applications do not adequately control weeds. Plugging of spray nozzles may be encountered due to the potential for formation of a precipitate in the spray solution that is often associated with micro-rate applications. Albaugh, LLC will not be responsible for any nozzle plugging that may occur with the use of multiple micro-rate applications. Methylated seed oils must not be added if the Betanex or Betamix rate exceeds 0.12 lb. ai/A broadcast, as the addition of methylated seed oils could increase the possibility of crop injury at dosage rates greater than 0.12 lb. ai/A.

**GROUND APPLICATION**

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

**AERIAL APPLICATION**

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

**DIRECTIONS FOR USE IN FALLOW LAND**

CLETHODIM 26.4% EC may be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply CLETHODIM 26.4% EC at 6 - 8 fl. oz./A for annual grasses and 8 - 16 fl. oz./A for perennial grasses. When both grass and broadleaf weeds are the target pest, CLETHODIM 26.4% EC may be tank mixed with 2,4-D ester, Dicamba® SG or Banvel® SGF Herbicide, or other broadleaf herbicides for broad-spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 8 fl. oz./A CLETHODIM 26.4% EC rate.

- Use a minimum spray volume of 15 gallons/A for ground applications and 5 gallons/A for aerial applications.
- Apply only to actively growing grasses when the first grass reaches the recommended weed height as specified by the Use Directions for Annual and Perennial Grasses section of this label.
- Annual grasses which emerge after the CLETHODIM 26.4% EC application will not be controlled, and a second application may be necessary.
- The control of perennial grasses may require more than one application in non-tilled areas.
- Do not plant any crop for 30 days after application unless clethodim is registered for use in that crop.
- Do not apply to grasses that have tillered, formed seedheads or exceeded recommended growth stage.
- Do not use flood jet nozzles.
- Do not apply to drought-stressed grasses.
- Do not mow area for two weeks prior to or after CLETHODIM 26.4% EC application.

**TABLE 10: CLETHODIM 26.4% EC IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND**

Product	Application Rates/Acre <sup>(1)</sup>		Crop Oil Concentrate <sup>(2)</sup>	
	Annual Grasses	Perennial Grasses	Ground	Air
CLETHODIM 26.4% EC + 2,4-D ester or Dicamba	6 - 8 fl. oz.	8 - 16 fl. oz.	1% v/v	
	0.5 lb./A			
	See the Albaugh Dicamba SG or Banvel SGF label for rates.			

1. Refer to CLETHODIM 26.4% EC label for weed height and species control. Review the Dicamba Herbicide and 2,4-D labels for crop restrictions, use rates and weeds controlled.
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.

**TABLE 11: DIRECTIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH CLETHODIM 26.4% EC**

Grass Species	Weed Stage	Rate fl.oz./A	High Rate
Annual and perennial grasses that exceed height claimed for control on height charts above.	Up to and including grasses in the seed head stage.	12	16
Do not apply as part of a tank mix when applying CLETHODIM 26.4% EC for grass suppression. Add a crop oil concentrate at 1 qt./A by ground to the finished spray volume.			

**TABLE 12: DIRECTIONS FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE, WARM-SEASON, GRASS RESTORATION PROJECTS**

Product	Product Rates	Grass Weeds Controlled/Suppressed		Weed Stages
		Common Name	Scientific Name	
CLETHODIM 26.4% EC	10 - 12 fl. oz./A	Tall Fescue	<i>Festuca arundinacea</i>	4 - 6 inches (40 - 60% green-up)

**SPECIAL APPLICATION INSTRUCTIONS**

- Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring, at 40-60% green-up, prior to emergence of warm-season grasses. Do not mow area for 2 weeks after the CLETHODIM 26.4% EC application.
- Apply in a minimum of 15-20 gallons of water per acre at a spray pressure of 40-60 psi at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood nozzles.
- Apply only to fields that have warm-season grasses established for two years. Applications of CLETHODIM 26.4% EC to emerged warm-season grasses may cause injury. Do not apply to warm-season grasses grown for seed.
- Use NIS at 0.25% v/v or COC/MSO at 1.0 qt./A or 1.0% v/v and AMS at 2.5-4.0 lb./A.
- Use of a non-ionic surfactant and AMS may reduce the risk of crop response or injury compared to COC or MSO adjuvants.
- Do not graze treated fields or feed treated forage and or hay to livestock. Do not plant any crop for 30 days after application, unless clethodim is registered for use in that crop.
- **NOTE:** CLETHODIM 26.4% EC applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47°F.

**TABLE 13: DIRECTIONS FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS  
IN NON-PRODUCING AGRICULTURAL AREAS**

Product	Product Rate	Suppression	Application Timing
CLETHODIM 26.4% EC	1.5-2 fl. oz./A	Tall Fescue Seed-Heads <i>Festuca arundinacea</i>	50-90% Tall Fescue green-up
Adjuvant: CLETHODIM 26.4% EC must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium sulfate at 2.5-4 lb./A. Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add CLETHODIM 26.4% EC, then add crop oil concentrate.			

**SPECIAL APPLICATION INSTRUCTIONS**

- Apply at 50-90% tall fescue green-up.
- Use the higher CLETHODIM 26.4% EC rate if less tall fescue green matter is present.
- Do not mow area for two weeks after the CLETHODIM 26.4% EC application.
- Apply in a minimum of 15-20 gallons of water per acre at a spray pressure of 40-60 psi at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood nozzles.
- 2,4-D ester may be added to this tank mix for broadleaf control (see the 2,4-D ester label for weeds controlled).
- Do not graze treated fields or feed treated forage and/or hay to livestock. Do not plant any crop for 30 days after application, unless clethodim is registered for use in that crop.

**ORNAMENTALS: DIRECTIONS FOR USE**

For ornamental plant uses, CLETHODIM 26.4% EC can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plantings, and structure landscapes.

**IMPORTANT:** CLETHODIM 26.4% EC successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to CLETHODIM 26.4% EC at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of CLETHODIM 26.4% EC have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for CLETHODIM 26.4% EC applications:

**TABLE 14: TOLERANT PLANTS  
ORNAMENTAL TREES**

Common Name	Scientific Name
Alder, red	<i>Alnus oregona</i>
Ash	<i>Fraxinus spp.</i>
Basswood	<i>Tilia spp.</i>
Birch, European white	<i>Betula pendula</i>
Birch, river	<i>Betula nigra</i>
Birch, white	<i>Betula papyrifera</i>
Crabapple, flowering	<i>Malus halliana</i>
Dogwood, flowering	<i>Cornus, florida</i>
Golden chain tree	<i>Laburnum anagyroides</i>

Common Name	Scientific Name
Maples	<i>Acer spp.</i>
Mulberry, white	<i>Morus alba</i>
Oaks	<i>Quercus spp.</i>
Olive, wild	<i>Elaeagnus angustifolia</i>
Redbud	<i>Cercis canadensis</i>
Sweet gum, American	<i>Liquidambar styraciflua</i>

#### GARDEN FLOWERS AND PLANTS

Common Name	Scientific Name
Ageratum	<i>Ageratum spp.</i>
Alyssum*, Sweet	<i>Lobularia maritime</i>
Asparagus fern	<i>Asparagus setaceus</i>
Bleeding heart	<i>Dicentra spectabilis</i>
Cast iron plant	<i>Aspidistra alator</i>
Chrysanthemum	<i>Chrysanthemum spp.</i>
Cinquefoil	<i>Potentilla spp.</i>
Coleus	<i>Coleus spp.</i>
Coralbells	<i>Heuchera sanguinea</i>
Cranesbill	<i>Geranium spp.</i>
Dahlia	<i>Dahlia spp.</i>
Daisy, Trailing African	<i>Osteospermum fruticosum</i>
Daylily	<i>Hemerocallis spp.</i>
Dusty miller	<i>Senecio cinerarie</i>
Euonymus	<i>Euonymus spp.</i>
Gazania	<i>Gazania spp.</i>
Geranium, house	<i>Pelargonium hortorum</i>
Heather, False	<i>Cuphea hyssopifolia</i>
Hosta	<i>Hosta fortunei</i>
Iris	<i>Iris spp.</i>
Jasmine tobacco	<i>Nicotiana alata</i>
Loosestrife	<i>Lythrum salicaria</i>
Marigold	<i>Tagetes spp.</i>
Partridgeberry	<i>Mitchella rapens</i>
Petunia*	<i>Petunia hybride</i>
Phlox	<i>Phlox spp.</i>
Pinks	<i>Dianthus spp.</i>
Portulaca	<i>Portulaca grandiflora</i>
Salvia	<i>Salvia spp.</i>
Saxifrage	<i>Saxifraga spp.</i>
Sedum	<i>Sedum spp.</i>
Selloum	<i>Philodendron selloum</i>
Snapdragon*	<i>Antirrhinum majus</i>
Sweet flag	<i>Acorus gramineus</i>
Tickseed	<i>Coreopsis grandiflora</i>
Touch-me-not	<i>Impatiens spp.</i>
Verbena	<i>Verbena spp.</i>
Violet	<i>Viola spp.</i>
Yarrow, common	<i>Achillea millefolium</i>
Zinnia	<i>Zinnia elegans</i>

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

### GROUND COVERS

Common Name	Scientific Name
Bugleweed, carpet	<i>Ajuga reptans</i>
Ivy, English	<i>Hedera helix</i>
Japanese spurge	<i>Pachysandra terminalis</i>
Lilyturf	<i>Liriope muscari</i>
Moneywort	<i>Lysimachia nummularia</i>
Mondo grass, white	<i>Ophiopogon jaburan</i>
Mondo grass, dwarf	<i>Ophiopogon japonicus</i>
Periwinkle, common	<i>Vinca minor</i>

### SHRUBS

Common Name	Scientific Name
Abelia	<i>Abelia spp.</i>
Anise, purple	<i>Illicium floridenum</i>
Aucuba	<i>Aucuba spp.</i>
Azalea*	<i>Rhododendron spp.</i>
Bamboo	<i>Bambusa spp.</i>
Barberry, Japanese	<i>Berberis thunbergii</i>
Barberry, Magellan	<i>Berberis buxifolia</i>
Baryberry	<i>Myrica pensylvanica</i>
Bottlebrush	<i>Callistemon citrinus</i>
Boxwood, Common	<i>Buxus sempervirens</i>
Camellia, Common	<i>Camellia japonica</i>
Candytuft	<i>Iberis sempervirens</i>
Cleyera	<i>Cleyera japonica</i>
Coralberry	<i>Ardisia crenata</i>
Crape myrtle	<i>Lagerstroemia indica</i>
Coyote brush	<i>Baccharis pilularis</i>
Fig, creeping	<i>Ficus pumila</i>
Gardenia	<i>Gardenia spp.</i>
Holly	<i>Ilex spp.</i>
Honeysuckle	<i>Lonicera pileate</i>
Indian hawthorn	<i>Raphiolepis indica</i>
Jasmine	<i>Jasminum spp.</i>
Jasmine, Asiatic	<i>Trachelospermum asiaticum</i>
Jasmine, Star	<i>Trachelospermum jasminoides</i>
Juniper	<i>Juniperus spp.</i>
Lantana	<i>Lantana spp.</i>
Nandina *, Bamboo Heavenly	<i>Nandinia domestica</i>
Oleander, common	<i>Nerium oleander</i>
Oregon grape	<i>Mahonia aquifolium</i>
Photina	<i>Photina spp.</i>
Pittosporum	<i>Pittosporum spp.</i>
Podocarpus	<i>Podocarpus spp.</i>
Privet	<i>Liqustrum spp.</i>
Pyracantha	<i>Pyracantha spp.</i>
Rhododendron	<i>Rhododendron spp.</i>
Rose	<i>Spirea bumalda</i>
Sweet olive	<i>Osmanthus fragrans</i>
Viburnum	<i>Viburnum tinus</i>
Wisteria	<i>Wisteria spp.</i>

Common Name	Scientific Name
Yellow sage/Shrub Verbena	<i>Lantana camere</i>

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

**TABLE 15: DIRECTIONS FOR CONTROL OF ANNUAL GRASSES IN ORNAMENTALS**

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

Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./A) <sup>(1)</sup>	High Rate <sup>(2)</sup>
<b>Barnyardgrass</b>	<i>Echinochloa crus-galli</i>	2-8	8	16
<b>Broadleaf Signalgrass</b>	<i>Brachiaria platyphylla</i>	2-6	8	16
<b>Brome</b>				
California	<i>Bromus carinatus</i>	2-6	8	16
Cheatgrass	<i>Bromus secalinus</i>	2-6	8	16
Downy	<i>Bromus tectorum</i>	2-6	8	16
Ripgut	<i>Bromus diandrus</i>	2-6	8	16
<b>Canarygrass</b>	<i>Phalaris canariensis</i>	1-4	8	16
<b>Crabgrass</b>				
Hairy	<i>Digitaria adscendens</i>	2-6**	8	16
Large	<i>Digitaria sanguinalis</i>	2-6**	8	16
Smooth	<i>Digitaria ischaemum</i>	2-6**	8	16
Southern	<i>Digitaria ciliaris</i>	2-6**	8	16
<b>Crowfootgrass</b>	<i>Dactyloctenium aegyptium</i>	2-6**	8	16
<b>Fall Panicum</b>	<i>Panicum dichotomiflorum</i>	2-8	8	16
<b>Field Sandbur</b>	<i>Cenchrus incertus</i>	2-6	8	16
<b>Foxtail</b>				
Giant	<i>Setaria faberi</i>	2-12	8	16
Green	<i>Setaria viridis</i>	2-8	8	16
Yellow	<i>Setaria glauca</i>	2-8	8	16
<b>Foxtail Barley</b>	<i>Hordeum jubatum</i>	2-6	8	16
<b>Goosegrass</b>	<i>Eleusine indica</i>	2-6**	8	16
<b>Itchgrass</b>	<i>Rottboellia exaltata</i>	2-6	8	16
<b>Junglerice</b>	<i>Echinochloa colona</i>	2-6	8	16
<b>Lovegrass (Stinkgrass)</b>	<i>Eragrostis cilianensis</i>	2-6	8	16
<b>Rabbitsfootgrass</b>	<i>Polypogon monspeliensis</i>	1-4	8	16
<b>Red Rice</b>	<i>Oryza sativa</i>	1-3	8	16
<b>Ryegrass</b>				
Hardy	<i>Lolium remotum</i>	2-6	8	16
Italian	<i>Lolium multiflorum</i>	2-6	8	16
<b>Seedling Johnsongrass</b>	<i>Sorghum halepense</i>	4-10	8	16
<b>Shattercane</b>	<i>Sorghum bicolor</i>	6-18	8	16
<b>Southwestern Cupgrass</b>	<i>Eriochloa gracillis</i>	2-6	8	16
<b>Sprangletop</b>				
Amazon	<i>Leptochloa panicoides</i>	2-6	8	16
Bearded	<i>Leptochloa fascicularis</i>	2-6	8	16
Mexican	<i>Leptochloa uninervia</i>	2-6	8	16

Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./A) <sup>(1)</sup>	High Rate <sup>(2)</sup>
Red	<i>Leptochloa filiformis</i>	2-6	8	16
<b>Texas Panicum</b>	<i>Panicum texanum</i>	2-6	8	16
<b>Volunteer Cereals</b>				
Barley	<i>Hordeum vulgare</i>	2-6	8	16
Oats	<i>Avena sativa</i>	2-6	8	16
Rye	<i>Secale cereale</i>	2-6	8	16
Wheat	<i>Triticum aestivum</i>	2-6	8	16
Volunteer Corn	<i>Zea mays</i>	4-12	6	8
Volunteer Corn	<i>Zea mays</i>	12-24	8	16
<b>Volunteer Grain Sorghum</b>	<i>Sorghum bicolor</i>	8-12	8	16
<b>Wild Oats</b>	<i>Aven fatua</i>	2-6	8	16
<b>Wild Proso Millet</b>	<i>Panicum miliaceum</i>	2-10	8	16
<b>Witchgrass</b>	<i>Panicum capillare</i>	2-8	8	16
<b>Woolly Cupgrass</b>	<i>Eriochloa villosa</i>	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./1,000 sq. ft.

(2) 16 fl. oz./A = approximately 0.4 fl. oz./1,000 sq. ft.

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

**TABLE 16: DIRECTIONS FOR CONTROL OF ANNUAL BLUEGRASS IN ORNAMENTALS**

Grass Species	Scientific Name	Weed Stage	Rate (fl. oz./A)	High Rate
<b>Annual Bluegrass</b>	<i>Poa annua</i>	To 4-Leaf	6	16
<p>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.  Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gallons (0.25% v/v).</p>				

**TABLE 17: DIRECTIONS FOR CONTROL OF PERENNIAL GRASSES IN ORNAMENTALS**

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

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./A) <sup>(1)</sup>	High Rate
<b>Bermudagrass (<i>Cynodon dactylon</i>)</b>				
First Application		3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)		3 (or up to 6" runners)	8	16
<b>Quackgrass (<i>Elytrigia repens</i>)</b>				
First Application		4-8	8	16
Repeat Application(s)		4-8	8	16

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./A) <sup>(1)</sup>	High Rate
(if regrowth occurs)				
<b>Rhizome Johnsongrass (<i>Sorghum halepense</i>)</b>				
First Application		12-24	8	16
Repeat Application(s) (if regrowth occurs)		6-18	6	8
<b>Wirestem Muhly (<i>Muhlenbergia frondosa</i>)</b>				
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./1,000 sq. ft.

16 fl. oz./A = approximately 0.4 fl. oz./1,000 sq. ft.

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

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place in original container.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.

### CONTAINER HANDLING:

#### Non-refillable containers (< 5 gallons):

Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### Non-refillable containers (> 5 gallons):

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

#### Pressure rinse as follows:

Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

#### Refillable container (bulk):

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.



## 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 the product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

**ALL STATEMENTS MADE HEREIN ARE SUBJECT TO APPLICABLE LAW, AND TO THE EXTENT THERE IS ANY INCONSISTENCY OR CONTENTION, APPLICABLE LAW SHALL GOVERN.**

The Directions for Use of the product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of many different factors including, without limitation, manner of use or application, weather, combination with other products, or crop conditions. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Manufacturer and Seller harmless from any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, EXCEPT FOR THIS WARRANTY, THE PRODUCT IS FURNISHED "AS-IS", AND NEITHER SELLER NOR MANUFACTURER MAKES ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SELECTION, PURCHASE OR USE OF THIS PRODUCT; SELLER AND MANUFACTURER SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE BEYOND WHAT IS STATED ON THE LABEL. To the extent consistent with applicable law, Buyer and User accept all risks arising from any use of this product, including without limitation, uses contrary to label instructions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or Manufacturer.**

To the extent consistent with applicable law, neither Manufacturer nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE BUYER OR USER, AND THE EXCLUSIVE LIABILITY OF MANUFACTURER AND SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT, OR, AT THE ELECTION OF MANUFACTURER OR SELLER, THE REPLACEMENT OF THE PRODUCT.

These Conditions of Sale and Limitation of Warranty and Liability shall be interpreted, unless otherwise required by the law of the state of purchase, in accordance with the laws of the State of Iowa, excluding its conflicts of laws rules, and may not be amended by any oral or written agreement.