U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PERIFICIDE PROTECTION AGENCY OFFICE OF PERIFICIDE:	72056	1/43		
X Registration Reregistration (under FIFRA, as assessed) Conditional Name and Address of Registrant (include ZIP Code): Name of Perticide Product: Clethodim 2EC Herbicide NISSO BASF Agro Co. Ltd. 2001 Jefferson Davis Highway, Suite 1010 Arlington, VA 22202 Iteleform is multiply and correction with this registration must be substituted to and accepted by the registration function with this registration must correspondence on this product always refer to the above SFA registration number. On the basis of information functioned by the registration the above mand perticide in commercy in order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a perticide in accordance with the Act. The acceptance of sum mane in connection with the registration of a product under this been covered by others. This product is conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you: 1. Submit and/or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data. 2. Add the phrase "EPA Registration No. 72056-2" to your label before you release the product for shipment. 3. Submit one (1) copy of your final printed labeling before you release the product of this product a store of each and further description of final printed labeling. 4. Submit the results of one year storage stability and corrosion characteristic studies to EPA upon completion.	WITED 574 Ros	Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., NW	Y Number:	
Clethodim 2EC Herbicide Name and Address of Registrant (include ZIP Code): NISSO BASF Agro Co. Ltd. 2001 Jefferson Davis Highway, Suite 1010 Arlington, VA 22202 Rete: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in connect. In any correspondence on this product lawys refer to the above SM registeration number. On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Pederal Insecticide, Angicide and Modennicide Art. Registration of a product under the Administration; on his motion, may at any time support of a cancel the registration of a product under the Administration of a spring the registrant a right to exclusive use of the mame or to its use if it has been covered by othere. This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you: 1. Submit and/or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data. 2. Add the phrase "EPA Registration No. 72056-2" to your label before you release the product for shipment. 3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling. 4. Submit the results of one year storage stability and corrosion characteristic studies to EPA upon completion.				
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Signature of Approving Official: Wang J. Miller Date: AUG 3 1 2006			-	ty and corrosion.
Signature of Approving Official: AUG 31 2006				
	Signature of App	roving Official: Joanne J. Mille	Date:	AUG 3 1 2006

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller Product Manager (23) Herbicide Branch Registration Division (7505P)

CLETHODIM 2EC HERBICIDE

ACTIVE INGREDIENT:	
Clethodim*	. 26 4%
Other Ingredients**	. <u>736%</u>
TOTAL	100 0%
*(E)-1[1-[[(3-chloro-2-propenyl)oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-	one
**Contains Petroleum Distillates	

Contains 2.0 lbs. Clethodim per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION-PRECAUCION

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

	FIRST AID			
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice. 			
IF SWALLOWED:	 Call a poison control center or doctor immediately for treatment advice Do not induce vomiting unless told to do so by the poison control center or doctor Do not give any liquid to the person Do not give anything by mouth to an unconscious person. 			
 IF ON SKIN OR CLOTHING: Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor for treatment advice 				
Human health, 800-832-H Animal health, call ASPCA	A at 800-345-4735			
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.				
	NOTE TO PHYSICIAN:			
Contains petroleum distilla	ite. Vomiting may cause aspiration pneumonia			
EPA Reg No 72056-XX>	EPA EST NO xxx-xx-			

NET CONTENTS ____gal

MANUFACTURED BY NISSO BASF Agro Co Ltd Tokyo JAPAN

ACCEPTED with COMMENTS In EPA Letter Dated:

AUG 3 1 2006 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

2056-2

8 May 2006

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:

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

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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

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

Solano Grass: Solano County, California, the vernal lakes area bounded by the Union Pacific Railroad and Hastings Road to the north. Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west

Wild Rice Hays County, Texas

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

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

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

CONTAINER DISPOSAL: Triple-rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke. Do not reuse container

DIRECTIONS FOR USE

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

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

AGRICULTURAL USE REQUIREMENTS

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

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

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

- Coveralls
- Chemical-resistant gloves, such as Barrier Laminate or Vitron 2.14 mills
- 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 forest nurseries or greenhouses.

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

CHEMIGATION

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

GENERAL INFORMATION

This product is for use on the following

Soybeans, Cotton, Ornamentals, Sugar Beets, Onions (dry bulbs and green). Garlic: Shallots (dry bulbs and green), Alfalfa, Peanuts, Dry Yam (and other Tuberous¹ and Corn¹ Vegetables). Tomatoes: Peppers (bell and non-bell), Eggplant (and other Fruiting Vegetables), Carrot. Radish: Garden Beet. Horseradish (and other Root Vegetables²). Leaf Lettuce. Broccoli, Cabbage. Cauliflower (and other Head and Stem Brassica Vegetables³). Mustard Greens (and other Leafy Brassica Greens⁴). Spinach. Celery. Rhubarb (and other Leaf Petioles⁵), Cranberry. Strawberry. Squash (including Pumpkins), Cucumber, Melons (including Cantaloupes and Watermelons), Mint. Clover (grown in Idaho, Oregon and Washington only).

Conifer Trees, Non-bearing Food Crops, Fallow Land (and other non-producing agricultural areas), and Non-crop or Non-planted areas.

- ¹ Other tuber and corm vegetables approved for use with this product include arracacha arrowroot. Chinese artichoke, Jerusalem artichoke, edible burdock, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, tanier, turmeric and bean yam
- ² Other root vegetables approved for use with this product include the following burdock, edible celeriac; chervit, turnip-rooted; chicory; ginseng parsley, turnip-rooted, parsnip, radish, oriental, rutabaga; salsify; salsify, black; salsify, Spanish, skirrel and kohlrabi
- ³ Other approved head and stem Brassica vegetables approved include. Chinese broccoli, Brussels sprouts, Chinese (napa) cabbage; Chinese mustard, cavalo broccolir and kohlrability
- ⁴ Other leafy Brassica greens approved for use with this product include broccoli raab, cabbage, Chinese (bok choy); collards; kale, mizuna, mustard greens; mustard spinach, rape greens and turnip greens.
- ⁵ Other leaf petiole crops include: cardoon, Chinese celery, celtuce. Florence fennel, and swiss chard.

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

Repeated use of CLETHODIM 2EC (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species. Biotypes are naturally occurring individuals of a species that are identical in appearance but have slightly different genetic compositions: the mode of action of a herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development

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

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

SYMPTOMS OF CONTROL

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

Timing

APPLICATION INFORMATION

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

When irrigation is used to supplement limited rainfall in and regions. CLETHODIM 2EC should be applied as soon as possible, after an irrigation (within 7 days). A second application of this product will generally provide more effective control of perennial grass weed than a single application in and regions. Apply a second application to actively growing grass 2 to 3 weeks after emergence of new growth

Cultivation of treated grasses 7 days prior to or within 7 days after application of this product could reduce weed control. DO NOT APPLY if rainfall is expected within one hour as control may be reduced.

ADJUVANT OR CROP OIL CONCENTRATE RECOMMENDATIONS

Soybeans, Alfalfa, Dry Bean, Cotton, Peanut, Sugar Beet, Sunflower, Potato: Always use a crop oil concentrate* at 1.0 qt/A by ground or 1% v/v. but not less than 1 pt/A. in the finished spray volume by air 1-to-2 qts/A liquid fertilizer (10-34-0, 28% N or 32% N) or an equivalent amount of spray grade ammonium sulfate (AMS) (2.5 to 4.0 lbs/A) can be added to CLETHODIM 2EC applications in addition to the recommended rate of crop oil concentrate. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, red rice, rhizome Johnsongrass, volunteer cereals, volunteer corn and wild oats.

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

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

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

Conifer Trees, Fallow Land (and other non-producing agricultural areas), Non-Crop or Non-Planted Areas: Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v but not less than 1 pt/A, in the finished spray volume

GROUND APPLICATION

To ensure complete coverage, it is essential to use sufficient spray volumes and pressure. Use a minimum of 5 gals, and a maximum of 40 gallons of spray solution per acre. A minimum of 10 gallons per acre is required under the following conditions: ultra narrow row cotton, narrow row soybeans, broadleaf herbicide tank mixes perennial grasses volunteer corn drought or stress conditions, heavy grass pressure or when grasses are at or near maximum height. Failure to use a minimum of 10 gallons per acre under these conditions can result in poor coverage and reduced grass control requiring repeat application. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle.

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

AIR APPLICATION

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

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

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

Spot Treatment

Mix ¼% to ½% (0.33 oz to 0.65 oz per gal) product when using hand sprayers or high volume sprayers utilizing hand guns. While not allowing runoff of spray solution, apply to wet vegetation. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz per gal) by volume. For uses requiring nonionic surfactant, include nonionic surfactant at ¼% (0.33 oz per gal) by volume.

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

CHEMIGATION ~ ONIONS (Dry Bulbs and Green) AND GARLIC SPRINKLER IRRIGATION APPLICATION DO NOT APPLY THIS PRODUCT BY CHEMIGATION IN THE STATES OF IDAHO, MONTANA, OREGON AND WASHINGTON.

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

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

General Precautions

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

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

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place

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

Sprinkler Chemigation Precautions

The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump

The pesticide injection pipeline must also contain a functional normally dosed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Do not apply when wind speed favors drift beyond the area intended for treatment

Chemigation Systems Connected to Public Water Systems

Public water system means a system for the provision to the public piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection

The pesticide injection pipeline must contain a functional normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Do not apply when wind speed favors drift beyond the area intended for treatment

RESTRICTIONS AND LIMITATIONS

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

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

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

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

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

Do not apply more than 8 fl oz/A of CLETHODIM 2EC per application to the following crops garden beets, carrots, radish (and other root vegetables), green onions, leaf lettuce, broccoli, cabbage cauliflower (and other head and stem Brassica vegetables), celery, rhubarb (and other leaf petioles) cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry



Do not apply more than 6 fl oz/A of this product per application to canola or mustard seed. Exceeding these recommendations could result in unacceptable crop injury.

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

Do not apply more than 16 fl oz of CLETHODIM 2EC (0 25 lb/a i) per acre per season for canola, clover flax, mustard seed and radish crops. Do not apply more than 32 fl oz of CLETHODIM 2EC (0.50 lb/a i) per acre per season for all other crops. Application on Long Island, New York is restricted to no more than 16 fl oz of CLETHODIM 2EC (0.25 lb/a.i) per acre per season

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

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

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

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 – 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!

See Wind, Temperature and Humidity, and Temperature Inversions sections of this label

CONTROLLING DROPLET SIZE – GENERAL TECHNIQUES

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets

Pressure – Use the lower spray pressures recommended for nozzle. Higher pressure reduces droplet size and does not improve canopy penetration

WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types narrower spray angles produce larger droplets. Consider using low-drift nozzles

CONTROLLING DROPLET SIZE - AIRCRAFT

Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations

Nozzle Type – Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

Boom Length – The boom length should not exceed ¾ of the wing or rotor length – longer booms increase drift potential.

Application Height - Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified), which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with fimited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog. however, if fog is not present, inversions can also be identified 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.

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

	RECOMMENDE	D USE RATES	RESTRICTIONS/LI	MITATIONS	
	MINIMUM				
	TIME FROM		CROP OIL		
CROPS ⁽¹⁾	APPLICATION	USE RATES	CONCENTRATE	SPECIAL USE	1
	TO HARVEST	PER ACRE	RATES PER	INSTRUCTIONS	:
	(PHI)		ACRE ⁽²⁾		

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CROPS ⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE	CROP OIL CONCENTRATE RATES PER <u>ACRE⁽²⁾</u>	SPECIAL USE INSTRUCTIONS
Alfalfa including: Sainfoin Holy clover Birdsfoot trefoil ⁽³⁾	15 days before grazing, feeding or harvesting	6 – 16 fl oz ⁽⁴⁾	1 qt. by ground or 1% v/v, but not less than 1 pt/A, by air ⁽⁵⁾	Do not plant rotational crops until 30 days after application of CLETHODIM 2EC ¹⁶
	(cutting) for forage or hay	 		Adding AMS has shown improved grass control for difficult to control species including, quackgrass, red rice, rhizome Johnsongrass, volunteer cereals, volunteer corn and wild oats.
Beans, Dry	30 days	6 – 16 fl oz	1 qt by ground or 1 % v/v, but not less than 1 pt/A. by air ⁽⁵⁾	
				Adding AMS has shown improved grass control for difficult to control species including: quackgrass, red rice rhizome Johnsongrass volunteer cereals volunteer corn and wild oats
Beets, Garden	30 days	(1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application A minimum 14-day interval required for repeat applications
Carrot	30 days		1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application
Canola	70 days	4 – 6 fl oz	1% v/v in the finished spray volume	required for repeat applications Do not apply after crop has begun bolting. Do not exceed 16 fl oz/A in a season
	30 dave	6 - 8 fl oz	1% where the	Crop injury could occur when this product is applied during the bloom period
Celery including Cardoon Chinese celery Celtuce	30 days	- 0 - 0 II 02	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application A minimum 14-day interval
Florence fennel Swiss chard	 			required for repeat
Clover	15 days before grazing. feeding. or harvesting	6 – 16 fl oz	1% v/v in the finished spray volume	Do not exceed 16 fl oz/A in a season For use on clover grown in the
	cutting) for forage or hay			states of Idaho Oregon and Washington only

CROPS ⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE	CROP OIL CONCENTRATE RATES PER ACRE ⁽²⁾	SPECIAL USE INSTRUCTIONS
Cotton	60 days	6 – 16 fl oz	1% v/v, but not less than 1 pt/A by air ⁽⁵⁾	Do not graze treated fields or feed treated forage or hay to livestock Adding AMS has shown improved grass control for difficult to control species including quackgrass, red rice. rhizome Johnsongrass. volunteer cereals, volunteer corn and wild oats
Cranberry	30 days	6 - 8 fl oz	volume	Do not apply more than 8 fl oz/A in a single application Do not apply between the "hook" stage and full fruit set A minimum 14-day interval required for repeat applications.
Cucurbits, including: Cantaloupes (all) Cucumber Gherkin Honeydew Melon Muskmelons (all) Pumpkins Squash (all) Watermelon	14 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application A minimum 14-day interval required for repeat applications
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non-Planted areas	N/A	6 – 16 fl oz	1% v/v, but not less than 1 pt/A. in the finished spray volume using a crop oil concentrate containing at least 15% emulsifier	
Flax	60 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not exceed 16 fl oz on a season. Make application prior to bloom. If applied during bloom, crop injury could occur

CROPS(1)	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE	CROP OIL CONCENTRATE RATES PER ACRE ⁽²⁾	SPECIAL USE INSTRUCTIONS
Fruiting Vegetables (except Tomato) including: Eggplant Groundcherry Pepino Peppers (all) Tomatillo	20 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application A minimum 14-day interval required for repeat applications
Head & Stem Brassica Vegetables, including: Broccoli Cabbage Cauliflower Brussels Sprouts	30 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application. A minimum 14-day interval required for repeat applications.
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 fi oz	i finished spray	Do not apply more than 8 fl oz/A in a single application A minimum 14-day interval required for repeat applications.
Leaf Lettuce	14 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application A minimum 14-day interval required for repeat applications
Munt	21 days	6 – 16 fl oz ⁽⁴⁾	1 qt. by ground or 1% v/v, but not less than 1 pt/A, by air	Do not apply more than 16 fl oz/A in a single application A minimum 14-day interval required for repeat applications.
Mustard Seed	75 days	4 - 6 fl oz	1% v/v in the finished spray volume	Do not apply more than 16 fl oz in a season Do not apply after crop has begun bolting. If applied during the bloom period, crop injury could occur.

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	MINIMUM			
CROPS ⁽¹⁾	TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE	CROP OIL CONCENTRATE RATES PER ACRE ⁽²⁾	SPECIAL USE INSTRUCTIONS
Onions (Dry Bulbs Only) Garlic Shallots (Dry	45 days	6 – 16 fl oz	1% v/v in the finished spray volume	Minimum 20 gals/A spray volume by ground in entire U.S
Bulbs Only)		1		, Minimum 20 gals/A spray volume by air in California ⁽⁹⁾
		'.		States other than California Application by air to onions garlic or shallots should be made in a minimum of 10 gals/A
Onions, Green, Including: Leeks	14 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply ore than 8 fl oz/A in a single application.
Scallions or Spring Onions Japanese Bunching Onions Green Shallots		;		A minimum 14-day interval required for repeat applications
Green Eschalots		6 16 fl an		
Ornamentals Non-Bearing Food Crops	N/A N/A	6 – 16 fl oz 6 – 8 fl oz ⁷⁸	Use of crop oil concentrate is not recommended as injury to flower and foliage may occur. See	Add a nonionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gallons (0 25% v/v) Sugar Maples cannot be
		i Ii	Special Use Instructions	tapped for syrup within one year of application
Peanut	40 days	6 – 16 fl oz	1 gt by ground or 1% v/v, <i>but not</i> less than 1 pt/A by air th	Adding AMS has shown improved grass control for difficult to control species including quackgrass red rice rhizome Johnsongrass, volunteer cereals volunteer corn and wild oats
Potato	30 days		1 qt by ground or 1% v/v. but not less than 1 pt/A by air ⁶⁵	Adding AMS has shown improved grass control for difficult to control species including, quackgrass red rice rhizome Johnsongrass, volunteer cereals volunteer corn and wild gats
Radish	15 days	6 – 8 ft oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application
	, , ,			Do not apply more than 16 fi oz (0 25 lb/a i) per acre in a season
	ľ			A minimum 14-day interval
		. <u>.</u>		required for repeat applications



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CROPS ⁽¹⁾	APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE	CONCENTRATE RATES PER ACRE ⁽²⁾	SPECIAL USE INSTRUCTIONS
Root Vegetables (except Radish), including:	30 days	i 6 – 8 fl oz	1% v/v in the finished spray volume	, Do not apply more than 8 fl oz/A in a single application.
Chicory Ginseng Horseradish Turnip				A minimum 14-day interval required for repeat applications.
Rhubarb	30 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application
		 	;	A minimum 14-day interval required for repeat applications
Soybean	60 day s	6 – 16 fl oz	1 qt by ground or 1% v/v (but not less than 1 pt/A) by air ^{'s} '	Do not graze treated fields or feed treated forage or hay to livestock
		1		 Refer to appropriate Table for reduced rate recommendations for the control of small annual grasses
			1	Adding AMS has shown improved grass control for difficult to control species including quackgrass, rhizome Johnsongrass, red rice volunteer cereals volunteer
Spinach	14 days	6 – 8 fl oz	1% v/v in the finished spray volume	corn and wild oats Do not apply more than 8 fl oz/A in a single application
			* • •	A minimum 14-day interval required for repeat applications
Strawberry	4 days	6 – 8 fl oz	1% v/v in the finished spray volume	Do not apply more than 8 fl oz/A in a single application
				A minimum 14-day interval required for repeat applications
Sugar Beet	40 days	6 – 16 fl oz	1 qt by ground or , 1% v/v but not less than 1 pt/A by air	Refer to the appropriate Table for reduced rate recommendations for the control of small annual grasses
				Adding AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, volunteer cereals, volunteer corn and wild oats

CROPS ⁽¹⁾	MINIMUM TIME FROM APPLICATION TO HARVEST (PHI)	USE RATES PER ACRE	CROP OIL CONCENTRATE RATES PER ACRE ⁽²⁾	SPECIAL USE INSTRUCTIONS
Sunflower	70 days	6 – 16 fl oz	1 qt by grund or 1% v/v, but not less than 1 pt/A. by air ⁽⁵⁾	Adding AMS has shown improved grass control for difficult to control species including quackgrass, rhizome Johnsongrass, red rice volunteer cereals, volunteer corn and wild oats.
Sweet Potato, Yam and other tuberous and corm vegetables (except Potato), including Artichoke Chinese Jerusalem Cassava, bitter, sweet Ginger	30 days	6 – 16 fl oz	1% v/v/ in the finished spray volume	Adding AMS has shown improved grass control for difficult to control species including quackgrass rhizome Johnsongrass, red rice volunteer cereals, volunteer corn and wild oats
Tomato	20 days	6 – 16 fl oz	1% v/v/ in the finished spray volume	· · · · · · · · · · · · · · · · · · ·

N/A - Not Applicable

- ¹¹ CLETHODIM 2EC is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided
- (2) Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier. The crop oil concentration must contain either a petroleum or vegetable oil base and meet all the following criteria: a) contain only EPA-exempt ingredients (b) be nonphytotoxic (c) provide good mixing quality and (d) be successful in local experience. Hightly refined vegetable oils have proven more satisfactory than unrefined vegetable oil. For further information see the "Addition of Adjuvant and Crop Oil Concentrate" section.
- ⁽³⁾ This product can be applied to seedling or established alfalfa grown for seed, hay silage green chop or direct grazing
- ⁽⁴⁾ The minimum use rate is 10 fl oz/A for weed control in established alfalfa and mint
- ⁽⁵⁾ In addition to the recommended rate of crop oil concentrate 1 to 2 qt/A of liquid fertilizer (10-34-0 28% N or 32% N), or an equivalent amount (2.5 to 4.0 lbs/A) of spray grade ammonium sulfate (AMS) may be added to the CLETHODIM 2ED application
- ⁽⁶⁾ Do not apply CLETHODIM 2EC and 2.4-DB as a tank mix to alfalfa unless the 60 day feeding grazing and harvesting restriction on the 2.4-DB label can be observed
- ¹⁷¹ Do not exceed 8 fl oz/A in a single application for ground applications to garlic or shallots Do not exceed 8 fl oz/A in a single application for air applications to onion, garlic or shallots Do not exceed 2 applications per season for garlic and shallots In California do not exceed 2 applications preseason for air applications to onions
- ⁽⁸⁾ Care should be taken to not exceed the maximum rate allowed on a "per acre" basis when CLETHODIM 2EC is applied as a spot treatment to phions garlic shallots or non-bearing food crops or crop injury could occur.
- ⁽⁹⁾ In California, do not apply this product to onions, garlic, or shallots until the crop has at least two full leaves.

In California, 14-day spray intervals are recommended between the application of this product and liquid nitrogen or other herbicide applications.

Injury to crop could occur when shorter intervals are observed

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

- ¹ Other tuber and corm vegetables approved for use with CLETHODIM 2EC include, arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible burdock, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, laren, tanier, tumeric and bean yam.
- Other root vegetables approved for use with this product include: burdock, edible; celeriac; chervil, turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, oriental: rutabaga; salsify; salsify, black; salsify. Spanish, skirret and turnip.
- Other head and stem Brassica vegetables approved include Chinese broccoli; Brussels sprouts;
 Chinese (napa) cabbage, Chinese mustard, cavalo broccolo, and Kohlrabi
- ⁴ Other leafy Brassica greens approved for use include: broccoli raab, cabbage, Chinese (bok choy); collards; kale, mizuna, mustard greens, mustard spinach; rape greens and turnip greens.
- ⁵ Other leaf petiole crops include: cardoon, Chinese celery, celtuce. Florence fennel, and Swiss chard.

ATTENTION

Plant tolerance to CLETHODIM 2EC at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if the herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of CLETHODIM 2EC have investigated the safety factor to plants not listed on this label.

NON-BEARING FOOD CROPS

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

If CLETHODIM 2EC is improperly applied, crop injury to non-bearing fruit and nut crops can occur. Do not apply CLETHODIM 2EC directly over the top of these plant types. Rather, direct the spray at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants, which will not bear fruit or nuts for at least one year following an application of CLETHODIM 2EC.

SCIENTIFIC NAME
Malus spp
Vaccinium spp
Rubus spp
Prunus avium
Citrus spp
Vitis spp
Olea spp.
Prunus persica
Pyrus communis
Prunus spp
Prunus spp
Fragaria spp.
Prunus triloba

Filbert	Corylus maxima
Pecan	Carya illinoinensis
Pistachio	, Pistacia vera
Walnut	Juglans spp.

CONIFER TREES

CLETHODIM 2EC can be used to control labeled grasses in Christmas tree farms, conifer nurseries, and conifer plantations but not in forests

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

NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas.

Rights-of-way, including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations; around airports; electric utilities; commercial buildings, manufacturing plants; storage yards; rail yards; fence lines; parkways; post-harvest croplands, and beneath greenhouse benches and around golf courses.

RECOMMENDATIONS FOR ANNUAL GRASSES (EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)

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

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (Inches)	RATE FL OZ/ ACRE	HIGH RATE ⁽⁴⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	6	8
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	6	8
Bronne				
Ca ifornia	Bromus carinatus	2 to 6	6	8
Cheat	Bromus secalinus	2 to 6	6	18
Downy	Bromus tectorum	2 to 6	6	8
Ripgut	Bromus diandrus	2 to 6	6	8
Canarygrass	Phalaris canariensis	1 to 4	6	8
Crabgrass				-
Hairy	Digitaria adscendens	, 2 to 6 🐨 👘	6	8
Large	Digitaria sanguinalis	2 to 6	6	8
Smooth	Digitaria ischaemum	2 to 6**	6	8
Southern	Digitaria ciliaris	2 to 6	6	8

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Crowfootgrass	Dactyloctenium aegyptium	1 2 to 6**	6 —	
Fall Panicum	Panicum dichotomiflorum	2 to 8	6	8
Field Sandbur	Cenchrus incertus	, 2 to 6	~ 6 ···	8
Foxtail		······································		· · · · · · · · · · · · · · · · · · ·
Giant	Setaria faberi	2 to 12	<u>6</u>	8
Green	Setaria viridis	2 to 8	6	
Yellow	Setaría glauc	2 to 8	, 6	8
Goosegrass	Eleusine Indica	2 to 6**	6	8
Itchgrass	Rottboellia cochinchinensis	2 to 6	6	8
Junglerice	Echinochloa colona	2 to 6	6	8
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	6	18
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	6	18
Red Rice	Oryza sativa	1 to 3	6	. 8
Ryegrass			1	
Hardy	Lolium remotum	2 to 6	6	8
Italian	Lolium multiflorum	2 to 6	6	8
Seedling Johnsongrass	Sorghum halepense	4 to 10	6	8
Shattercane	Sorghum bicolor	6 to 18	6	8
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	6	8
Sprangle top				
Amazon	Leptochloa panicoides	2 to 6	6	18
Bearded	Leptochloa fascicularis	2 to 6	6	8
Mexican	Leptochloa uninervia	2 to 6	. 6	<u> 8</u>
Red	Leptochloa filiformis	2 to 6	6	3
Texas Panicum	Panicum texanum	2 to 6	6	8
Volunteer Cereals ⁽³⁾			.,	
Barley	Hordeum vulgare	2 to 6	6	8
Oats	Avena sativa	2 to 6	. 6	8
Rye	Secale cereale	1 2 to 6	6	8
Wheat	Triticum aestivum	2 to 6	6	8
Volunteer Corn ⁽²⁾	Zea mays	4 to 12	4	6
Volunteer Corn (S.R.)(1)	Zea mays	4 to 12	8 (sup	pression only)
Volunteer Corn ⁽²⁾	Zea mays	12 to 24	6	8
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	6	, 8
Wild Oats	Avena fatua	2 to 6	6	8
Wild Proso Millet	Panicum miliaceum	2 to 10	6	8
Witchgrass	Panicum capillare	2 to 8	6	8
Woolly Cupgrass	Eriochloa villosa	2 to 8	6	8
				· · · · · · · · · · · · · · · · · · ·

* Generally occurs between 3-leaf stage and tillering.

** Length of lateral growth.

(1) Sethoxydim resistant volunteer corn

⁽²⁾ Includes Roundup Ready®, Liberty Link®, and IMI-CORN® volunteer corn.

(3) The minimum CLETHODIM 2EC use rate for control when a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment is 8 fl oz/A

⁴⁴ Where experience has shown that higher rates are needed for satisfactory control of annual grasses, rates higher than 8 fl oz/A may be applied in certain geographic areas, cropping situations, or environmental conditions. In these situations, rates from 8 to 16 fl oz/A can be applied. Do not apply more than 8 fl oz/A of CLETHODIM 2EC per application to the following crops: Garden beets, carrots, radish (and other root vegetables), green onions, leaf lettuce, broccoli cabbage, cauliflower (and other head and stem Brassica vegetables), celery inubarb (and other leaf petioles), cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry.

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

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

IN ESTABLISHED ALFALFA AND MINT WITH CLETHODIM 2EC					
GRASS SPECIES	WEED STAGE	RATE FL OZ/ACRE	HIGH RATE		
Annual & Perennial Grasses Listed in Grass Table	See Table	. 10	16		
Mowing: Achieving the best control of annual grasse before grass weeds are mowed. Once grass is move available leaf surface has been removed. In areas w after having been mowed multiple times. These gras buds. Even though these grasses may be an annual CLETHODIM 2EC for partial or complete control	ed it becomes tougher to ithout a killing frost, some ses form large crowns an	control, as much e annuals can ove nd may contain m	of the er-winter any viable		
Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of CLETHODIM 2EC in established alfalfa and mint and may be necessary to initiate active growth of the weeds prior to application. Generally, applications 2 to 4 days after an irrigation are most effective. Irrigation made shortly after application (2 days) can be effective, but more consistent grass control occurs when the irrigation is made before the application.					
Aerial Application When applying by air in establish minimum of 10 GPA	ed alfalfa and mint, appl	y CLETHODIM 2	EC in a		
Annual Grass Control: Make application at the gras Grass Table and rates indicate. If a grass has been of resumed and regrowth has reached the minimum her indicated. Make application before the alfalfa/mint ca- spray coverage. Some annual grasses are spring-an- germinating plants, and the time they are actively gro- may vary from region to region. In addition, some and because control of small grasses is desired, applicating general rule, spray spring and summer-germinating grinitial green-up. Spray fall-germinating weeds in the fi- damage is done due to frost. Late fall applications ma- such as frost, slower plant growth, or the onset of flow	cut, make application after ight and before it reacher nopy covers the grasses d-summer-germinating pro- wing and most susceptile nuals germinate over an ion after each weed flush grasses as early in the second all soon after they begin ay be less effective due to a soon after they begin	er active growth h s the maximum h and interferes wi lants while other ole to CLETHODI extended period may be required eason as possible growing but befor	as eight th the s are fall- M 2EC of time and As a after re any		
Perennial Grass Control: CLETHODIM 2EC effective Bermudagrass, Johnsongrass, quackgrass, wirestem Due in part to lack of tillage, perennial grasses are m established alfalfa or mint. A program of repeated ap best way to control perennial grasses is to do so in the stolons become large and difficult to kill	n muhly, Tall fescue, foxt ore difficult to control in a plications is usually nece	ail barley and orc a perennial crop, essary for best res	such as ' sults The		
Use the high rate under heavy grass pressure and/or	when grasses are at or	near maximum h	eight		
Always add a crop oil concentrate at 1 gt/A by ground spray volume by air	d or 1% v/v. but not less	than 1 pt/A, to the	e finished		

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RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH CLETHODIM 2EC GRASS SPECIES WEED STAGE RATE FL/OZ HIGH RATE

 Annual Bluegrass (Poa annua)
 to 4-leaf
 6"
 16

 Apply under favorable soil moisture and humidity, which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).
 16

 Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.
 16

 Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature
 16

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

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

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

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

Make application only to actively growing grasses and the recommended weed heights

- Make application when the first grass weed species in a mixed grass weed population reaches the
 recommended growth state for treatment.
- Regrowth by tillering may occur if application is made when plants are stressed by lack of moisture, excessive moisture, low or high temperatures and/or under very low humidity.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (Inches)	RATE FL OZI ACRE	
Barnyardgrass	Echinochioa crus-galli	1 to 4	4	
Broadleaf Signalgrass	Brachiaria platyphylla	1 to 4	5	
Crabgrass				
Large	Digitaria sanguinalis	1 to 3*	4	
Large	Digitaria sanguinalis	1 to 4*	5	
Smooth	Digitaria ischaemum	1 to 3	4	
Smooth	Digitaria ischaemum	1 to 4	5	
Southern	Digitaria ciliaris	1 to 4	5	
Fall Panicum	Panicum dichotomiflorum	1 to 4	4	
Foxtail				
Giant	Setaria faberi	1 to 4	4	
Green	Setaria viridis	1 to 4	4	
Millet	Setaria italica	1 to 4	5	
Yellow	Setana glauca	1 to 4	4	
Seedling Johnsongrass	Sorghum halepense	1 to 6	[°] 5	
Shattercane	Sorghum bicolor	4 to 10	4	
Texas Panicum	Panicum texanum	1 to 4	5	
Volunteer Cereals		·······		
Barley	Hordeum vulgare	1 to 4	5	
i Oats	Avena sativa	. 1 to 4	ī 5 [—]	
Wheat	Triticum aestivum	1 to 4	5	
Wild Proso Millet	Panicum miliaceum	1 to 6	4	
Wild Oats	Avena fatua	1 to 4	5	
*Length of lateral growth		· ··	· • ·	

*Length of lateral growth

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

RECOMMENDATIONS FOR PERENNIAL GRASSES

- ²³/43
- Make application only to actively growing grasses at the recommended weed heights. Make application when the first grass weed species in a mixed grass weed population reaches the recommended growth state for treatment.
- Use the higher rate under heavy grass pressure and/or when grasses are at maximum height. Do not apply more than 8 fl oz/A of CLETHODIM 2EC per application to the following crops:
 Garden beets, carrots, radish (and other root vegetables), green onions. leaf lettuce, broccoli, cabbage, cauliflower (and other head and stem Brassica vegetables), celery, rhubarb (and other leaf petioles), cranberry, cucurbits, fruiting vegetables (except tomatoes), non-bearing food crops, flax and strawberry. Do not apply more than 6 fl oz/A of product per application to canola or mustard seed.

WEED HEIGHT (Inches)	RATE FL OZ/ACRE	HIGH RATE
	8 .	16
1 3 (or up to 6" runners)	_ 8	16
· ···· · · · · · · · · · · · · ·		1
	8	16
<u>4 to 8</u>	<u>8</u>	16
		• • • • • • • •
	8	, 16
2 to 6	' 8 ·	16
		_
4 to 8	8	16
4 to 8	8	16
1	8	16
<u>4 to 12</u>	8	16
		I.
12 to 24	88	16
6 to 18	6	· 8
4 to 8	8	16
4 to 8	8	16
<u>}</u>	1	; +
2 to 4	8	16
2 to 4	8	16
<u> </u>		1
2 to 4	•	16
2 to 4		16
	3 (or up to 6" runners) 3 (or up to 6" runners) 4 to 8 4 to 8 2 to 6 2 to 6 4 to 12 2 to 24 6 to 18 2 to 4 2 to 4 2 to 4 2 to 4	OZ/ACRE 3 (or up to 6" runners) 8 4 to 8 8 2 to 6 8 2 to 6 8 4 to 8 8 4 to 8 8 4 to 8 8 4 to 12 8 2 to 24 8 6 to 18 8 2 to 4 8

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

GENERAL INFORMATION

TANK MIXES

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

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

- Application timing, e.g. pre-harvest interval
- Total season rates not to be exceeded

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

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

- Make application only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label
- Make application when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment.
- Make application under favorable soil moisture and humidity that exist a few days after rainfall or within seven (7) days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank mix combination.
- Tank mix application can sometimes result in reduced grass control and possible increases in crop injury as compared to either product used alone. If regrowth occurs or an additional flush of new grass emerges, apply a second application of CLETHODIM 2EC as specified in the respective size and rate tables
- Do not tank mix CLETHODIM 2EC when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage

MIXING INSTRUCTIONS

- 1 Fill clean spray tank 1/2 to 2/3 of desired level with clean water. While agitating, add the correct amount of CLETHODIM 2EC, making sure that agitation makes a rippling or rolling action on the water surface.
- When tank mixing this product with other labeled herbicides add water-soluble bags first followed by dry formulations, flowables, emulsifiable concentrates and then solutions Prepare no more spray mixture than is required for the immediate spray operation.
- 3. Add any required adjuvants (crop oil concentrate, nonionic surfactant and/or nitrogen solution)
- 4 Fill spray tank to desired level with water.

Continue agitation until all spray solution has been applied.

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

ANTAGONISM INFORMATION

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



ALFALFA

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

·	AF	PPLICATION RATES/ACRE			•
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES		-	•
1			GROUND	AIR	
CLETHODIM 2 EC	10 – 16 fl oz	10 – 16 fl oz			,
i + .	+	ı 1	1%	1%	
! 2,4-DB ⁴ ^I	See 2,4-DB label	See 2,4-DB label			
CLETHODIM 2EC	10 – 16 fl oz	+	·		
+	+				
PURSUIT DG ⁵	1.08 – 2 16 oz	-	1%	1%	•
OR	OR	1	1		'
PURSUIT ⁵	3 to 6 fl oz		• .		
CLETHODIM 2EC	10 – 16 fl oz	i	•		
+ .	+		•		1
BUCTRIL® 2L ⁶	1.0 – 1.5 pts		•		•
OR	OR	-	0 5%	0.5%	
BUCTRIL GEL ^{6.7}	0.5 – 0.75 pt	l L			

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

- ² Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank Mixing is not recommended in these situations.
- ³ Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.
- CLETHODIM 2EC plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will generally outgrow this temporary crop injury within a few weeks.
- ⁵ Before using this tank mix, read and understand the PURSUIT or PURSUIT DG labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. DO NOT feed, graze or harvest alfalfa for 30 days following an application of PURSUIT to alfalfa.
- States of Colorado Idaho Montana, Nevada. Oregon. Utah. Washington, Wyoming and the western halves of Kansas, Nebraska. North Dakota. South Dakota. The tank mix of CLETHODIM 2EC plus BUCTRIL or BUCTRIL GEL must be applied in the fall or spring to seediling alfalfa when the majority of the field has a minimum of 2 trifoliate. Unacceptable crop injury can occur to alfalfa seedlings less than the 2 trifoliate leaf stage. BUCTRIL or BUCTRIL GEL plus CLETHODIM 2EC applications made when temperatures are expected to exceed 80 F and 3 days following application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. Unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage growth, when alfalfa stand is uneven and conditions favor leaf burn. When applications of CLETHODIM 2EC plus BUCTRIL or BUCTRIL GEL are made when temperatures are expected to exceed 70°F and 3 days following such application can result in unacceptable crop injury. Crop leaf burn can occur following CLETHODIM 2EC plus BUCTRIL GEL are made when temperatures are expected to exceed 70°F and 3 days following such application can result in unacceptable crop injury. Crop leaf burn can occur following CLETHODIM 2EC plus BUCTRIL or BUCTRIL GEL applications. Warm, humid conditions may enhance leaf burn. However, new crop growth will not be affected.
- ⁷ Do not make application when alfalfa is under moisture, temperature insect or disease stress or has been stressed by other pesticide carryover or application

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

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

[APPLICATION RATES/ACRE	_	1
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	AMMONIUM	SULFATE
	5 5		GROUND	AIR
CLETHODIM 2 EC	4 - 5 fl oz			
+	+	· •	3 0 lbs	3 0 lbs
LIBERTY ³	34 fl oz		•	

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

² Do not apply CLETHODIM 2EC tank mix during or after bolting or flowering or crop injury could occur.

³ For use only on LibertyLink® canola.

COTTON

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

		COTION			
PRODUCT ¹	APPLICATION	RATES/ACRE ²	CROP OIL CONCENTRATE V/V	³ , COMMENTS,	
!	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	;	
CLETHODIM 2	6 – 8 fl oz	8 – 16 fl oz	1%	Reduce broadcast	
: EC ⁴		e COBRA label for rates to control broadleaf weeds and height itations for cotton. See CLETHODIM 2EC label for weed height d species controlled.			
(4.0 lbs/gal) OR MSMA	See MSMA label for rates to control broadleaf weeds and height limitations for cotton. See CLETHODIM 2EC label for weed height and species controlled				

(6.6 lbs/gal)

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

- ² If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of CLETHODIM 2EC alone – without a tank mix herbicide – according to the appropriate size and rate recommendations.
- ³ Always use a crop oil concentrate at the listed rate, but not less than 1 pt/A, in the finished spray volume.
- ⁴ If at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control can result and a second non-post directed application of CLETHODIM 2EC may be necessary.

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

	PRODUCT ¹	APPLICATION RATE/ACRE ² ANNUAL GRASSES		CROP OIL CONCENTRATE PER ACRE ³	COMMENTS ⁷
	CLETHODIM 2 EC	8 – 16 fl oz		1 qt	See charts for grasses
	+	Refer to BUCTRIL 4 EC label for	,		controlled
	BUCTRIL 4 EC ^{4 5 6}	rates to control broadleaf weeds	i		
		and height limitations for cotton	l		

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



- ² If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of CLETHODIM 2EC at the recommended rate with the appropriate amount of crop oil concentrate in a non-BUCTRIL tank mix.
- ³ Always add a crop oil concentrate 1 qt/A by ground in the finished spray solution
- ⁴ Applications of BUCTRIL 4 EC can be made only to cotton that has been genetically modified for crop tolerance to postemergence over-the-top applications of bromoxynil
- ⁵ Do not apply the CLETHODIM 2EC plus BUCTRIL tank mix within 75 days of harvest
- ⁶ Do not exceed 2 applications of BUCTRIL before cotton is 12 inches tall or one application after 12 inches tall.
- ⁷ Use a minimum of 10 gallons of spray solution per acre

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

	APPLICATION RATES/ACRE ¹	ADJUVANT
PRODUCT	ANNUAL PERENNIAL GRASSES GRASSES	Glyphosate Glyphosate formulation formulation COMMENTS with built-in without adjuvant built-in adjuvant
CLETHODIM 2 EC + GLYPHOSATE	6 – 8 fl oz 8 – 16 fl oz	Nonionic Crop oil See charts surfactant @ concentrate for grasses 0 125 to 0 25% @ 1 pt/A controlled v/v plus plus
	See glyphosate label for rates to control broadleaf weeds and height limitations for cotton.	ammonium ammonium Use a sulfate @ 8 5 sulfate @ minimum of to 17 lbs per 8.5 to 17 lbs 1 gals of 100 gallon per 100 spray carrier gallon solution per carrier acre

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

DRY BEAN

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

Í	i j		APPLICATION RATES/ACRE			
	PRODUCT ²	ANNUAL GRASSES PERENNIAL GRASSES		CROP OIL CONCENTRATE ³ (V/V)		
	l			CONCENT	$RAIE^{*}(V/V)$:	
j			·	GROUND	AIR	
ļ	CLETHODIM 2 EC	8 – 10 fl oz	10 16 fl oz		· ·	
	+	÷	, +	1%	1%	
ļ	BASAGRAN®	10-20pts/A	1 to 2 pts	!	1	

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

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

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

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

(See recommendation tables above for specific grasses and growth)

		APPLICATION RATES/ACRE	E	
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	CROP CONCEN	1
			GROUND	AIR
CLETHODIM 2 EC	4 - 5 fl oz			
+	+	-	1 pt 🔡	1 pt
BRONATE ADVANCED ^{TM²³}	11.4 fl oz			
CLETHODIM 2EC	4 -5 fl oz			
+	+	-	1 pt	1 pt 📊
BRONATES®	0.9 pt			
CLETHODIM 2EC	4 – 5 fl oz	1	1	
+	+	-	1 pt	1 pt
BUCTRIL ²³	1.0 pt]		i
CLETHODIM 2 EC	4 – 5 fl oz		т ²² Т	
+	+	-	: 1 pt _	1 pt
RHONOX® ^{2 3}	0 25 - 0.5 pt			

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

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

² Do not apply tank mixes when temperatures are expected to exceed 85 F at or for 3 days following application as crop injury can occur.

SOYBEAN

Table 8. CLETHODIM 2EC TANK MIXES³ TO CONTROL ANNUAL GRASSES WHEN USED AS A BURNDOWN IN NO-TILL SOYBEAN

PRODUCT	PRODUCT RATE/ACRE ¹	I GRASS HEIGHT (Inches)	CROP OIL CONCENTRATE/ ACRE ²	28%N OR 32%N QTS/A OR 2.5 TO 4.0 LBS AMS
CLETHODIM 2 EC + 2,4-D ESTER*, ³	3 fl oz	Foxtail 1 to 3 Fall Panicum 1 to 3	1 1 qt	1 – 2 qts or 2 5 – 4 0 lbs AMS
	4 fl oz	Foxtail 1 to 4 Fall Panicum 1 to 4	⁺ 1 qt ⁻	1 – 2 qts or 2 5 – 4 0 lbs AMS
	6 – 8 fl oz + 0.5 lb a.i	(See Grass Chart for grasses claimed)	1 qt	1 – 2 qts or 2 5 – 4.0 lbs AMS

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

¹ Apply a second application of CLETHODIM 2EC according to the appropriate size and rate recommendations, if regrowth occurs or an additional flush of new grass emerges

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

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

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

	A	PPLICATION RATES/AC	CRE'	
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES		RATE ³
CLETHODIM 2 EC	6 - 8 fl oz	8 – 16 fl oz	GROUND	AIR
+	+	+	0 5 to 1%	1%t
COBRA	12.5 fl oz	∔ _ 12 5 fl oz	+	_
CLETHODIM 2EC	8 - 10 fl oz	10 – 16 fl oz	4.114	100
BASAGRAN 4 SL	+ 1 – 2 pts	1 – 2 pts	1%	1%
CLETHODIM 2EC	6 - 8 fl oz	8 – 16 fl oz	· · · ·	'
+	+	+	0 5 to 1% ⁴	1% ⁴ .
Glyphosate (For use on Roundup Ready soybeans only)	0.75 – 3.0 lb a.i.	0.75 + 3.0 lb a i		;
CLETHODIM 2EC	6 – 8 fl oz	6 - 8 fl oz	4	
+ !	+	÷ +	0.5 to 1%	1%
BLAZER® 2SL	<u>1 – 1.5 pts</u>	1 – 1.5 pts	F -	- ;
CLETHODIM 2EC	6 – 8 FL OZ	8 – 16 fl oz	; , , , , , , , , , , , , , , , , , , ,	4.04
FLEXSTAR® HL ⁶	See FLEXSTAR HL label for specific	 See FLEXSTAR HL label for specific 	1% :	1%
FLEASTARE	application rates	application rates		
CLETHODIM 2EC	8 – 10 fl oz	10 - 16 fl oz	*	
+	+	+	1%	1%
CLASSIC® 25DG	0.5 – 0.75 oz	0.5 – 0.75 oz	· ·	
CLETHODIM 2EC4	6 – 8 fl oz	8 – 16 fl oz		
	+	! + ! 144.07	1%	1%
PRUSUIT 70 DG CLETHODIM 2EC ⁵	<u> </u>	<u>1.44 oz</u>	ŧ.	
+ ;	+	i .		
COBRA	6 – 8 fl oz	-	0.5%	1%
+ .	+	•		
CLASSIC 25 DG	0 5 - 0.75 oz _	, 4		
CLETHODIM 2EC	8 – 10 fl oz		1	
COBRA	6 – 10 fl oz	· _	0 5%	1%
+	+	ı		
BASAGRAN 4 SL	1 – 1.5 pts	, 		
CLETHODIM 2EC ⁵	8 – 10 fl oz	1	1	1
+	+		0.544	
COBRA	6 – 10 fl oz	-	0.5%	1% 1
PURSUIT 70 DG	1 44 OZ	1	1	
CLETHODIM 2EC ³	8 – 10 fl oz	· · ·		· -
+	+	•	0.5%	1%,
STORM®	1.5 pts	: *	1	
CLETHODIM 2EC ³	8 – 10 fl oz	1	I	
+ RESOURCE®	+ 4 fl oz	r -	1%	1%
	4 H OZ +	1	170	F 70
PURSUIT 70 DG	1.44 OZ	1	• •	1
- <u>-</u>			•••	

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NBL Clethodim 2EC Draft Label	8 May 2	006	Pa	age 28 of 41
CLETHODIM 2EC ⁵	8 – 10 fl oz			
RESOURCE®	+ 4 fl oz +	-	1%	, 1% .
BASAGRAN !	1 pt		;	! I
CLETHODIM 2EC ⁵	8 – 10 fl oz			* **= -25
RESOURCE® +	+ 4 fl oz +	-	1%	, 1%
CLASSIC	0.5 fl oz		•	
CLETHODIM 2EC ³	8 – 10 fl oz +			1
RESOURCE®	4 fl oz	-	i 1%	1%
CLASSIC	0.5 oz			· · ·
CLETHODIM 2EC ⁵	6 – 8 fl oz		t	
COBRA	floz i	-	0 5%	1%
RESOURCE	4 fl oz			
CLETHODIM 2EC ⁵	6 – 8 fl oz	8 – 16 fl oz	!	· · · · · · · · · · · · · · · · · · ·
FIRSTRATE®	+ 0.3 oz	+ 0 3 oz	1%	 []
CLETHODIM 2EC ⁵	6 – 8 fl oz	8 – 16 fl oz +	; -	· · · ·
COBRA	6 – 8 fl oz	6 – 8 fl oz	1%	· - ·
+ FIRSTRATE®	+ '	+		
CLETHODIM 2EC	<u> </u>	0.3 oz		· ·
• • •	+	-	1%	-
	<u>4 – 5 fl oz</u>		-•	··· ·
CLETHODIM 2EC ⁵	6 – 8 fl oz +			P 1
COBRA	6 – 8 fl oz	*	1%	-
+ RAPTOR® (1AS)	+ 4 – 5 fl oz			i ·
CLETHODIM 2EC ⁵	$-\frac{4-3\pi 6}{6-8 \text{ fl oz}}$		·	· · ·
+	+	-	1 qt	-
CLETHODIM 2EC ⁵	0.5 oz/A 6 − 8 fi oz		+	· · · · · · · · · · · · · · · · · · ·
	+			
COBRA	4 – 8 fl oz	-	1 pt	j - I
	+ 0.5 oz		İ	1
SYNCHRONY® STS™ CLETHODIM 2EC ⁵	6 – 8 fl oz		· · · · ·	
+	+	•	1 qt	-
	$\frac{4 - 12 \text{ fl oz}}{8 - 10 \text{ fl oz}}$		· · · · · ·	- 1
CLETHODIM 2EC ⁵	o = 101102 , +	-	1%	· -
	fer to FRONTROW			

<u> </u>	CLETHODIM 2EC ⁵	6 – 8 fl oz	8 – 16 fl oz		 I	-
	+	+	+			
I	FIRSTRATE	0.3 oz	0 3 oz		•	I
	+	+	+	1%	-	
l I	FLEXSTAR HL⁵	Refer to the	Refer to the			1
		FLEXSTAR HL label for	FLEXSTAR HL label	1	t	
		specific application	for specific		I	,
		rates	application rates	· · · _		

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

- ² Broadleaf weed control can be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- ³ Always use a crop oil concentrate at the listed rate, but not less than 1 pt/A in the finished spray volume.
- ⁴ When CLETHODIM 2EC is tank mixed with glyphosate, the addition of 2.5 lb, ammonium sulfate is required. If the glyphosate formulation has a stand-alone build-in adjuvant, add 0.125% v/v nonionic surfactant in place of crop oil concentrate. Add 0.5% to 1% crop oil concentrate for ground application and 1% v/v for aerial application if the glyphosate formulation does not have a build-in adjuvant system.
- ⁵ When CLETHODIM 2EC is tank mixed with PURSUIT, RESOURCE. STORM FIRSTRATE. SYNCHRONY, RAPTOR, FRONTROW, COBRA plus CLASSIC, COBRA plus BASAGRAN, COBRA plus PURSUIT, COBRA plus FIRSTRATE COBRA plus SYNCHRONY, and COBRA plus RAPTOR, the addition of 1 – 2 qts/A of liquid fertilizer (10-34-0, 28%N, or 32%N) is recommended. An equivalent amount, 2.5 – 4.0 lbs/A of spray grade ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate
- ⁶ Refer to the FLEXSTAR HL label for geographic and rotational restrictions
- Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET RECOMMENDATIONS FOR SMALL ANNUAL GRASSES table

SOYBEAN (continued)

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

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

!	APPL APPL	ICATION RATES/	ACRE		
PRODUCT	ANNUAL GRASSES ²	PERENNIAL GRASSES	CROP C CONCENTR (V/V)		1
I			GROUND	AIR	-
CLETHODIM 2 EC	4 - 8 fl oz		:		- 1
+		-	1%	1%	1
FIRSTRATE	0.3 oz				
CLETHÔDIM 2 ÉC	4 – 6 fl oz				
+		-	, <u>1%</u> , ;	1 %	:
PURSUIT 70 DG	1 44 oz				

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

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

- ³ Always use a crop oil concentrate at the listed rates, but not less than 1 pt/A in the finished spray volume
- ⁴ When CLETHODIM 2EC is tank mixed at reduced rates, the addition of 1 2 qts/A of liquid fertilizer (10-34-0, 28%N, or 32%N) is required. An equivalent amount, 2.5 to 4.0 lbs/A of spray grade



ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

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

	APPLICATION RATES/ACRE				
PRODUCT ²	ANNUAL GRASSES ²	PERENNIAL	CROP CONCEN	(RATE ³	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	GROUND	_ AIR '	
CLETHODIM 2 EC	8 - 10 fl oz				
L +	, + ;	-	1% ,	1%	
BASAGRAN	1.0 – 2.0 pts				
CLETHODIM 2 EC	8 - 10 fl oz				
÷	+	•	1%	1%	
BLAZER	0.5 – 1 5 pts	=			
CLETHODIM 2 EC	8 - 10 fl oz		1		
+	, +	•	1%	1%	
STORM	1.5 pts			,	

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

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

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

RECOMMENDATIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH CLETHODIM 2EC

		RATE	HIGH
GRASS SPECIES	WEED STAGE	FL OZ/ ACRE	RATE
Annual and perennial grasses that exceed height claimed for control on height chart "RECOMMENDATIONS FOR ANNUAL GRASSES" & "RECOMMENDATIONS FOR PERENNIAL GRASSES"	Up to and including grasses in the seed head stage	16	32
	CLETHODIM 2EC for order of	UDDCOCRIOD A	dd a crop oil

Do not apply as part of a tank mix when applying CLETHODIM 2EC for grass suppression. Add a crop oil concentrate at 1 gt/A by ground to the finished spray volume.

SUGAR BEET

Table 12. CLETHODIM 2EC TANK MIXED WITH STINGER® APPLIED TO SUGAR BEET (See recommendation tables above for specific grasses and growth stages) APPLICATION RATES/ACRE¹

1	ALL		NUNE		
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES		CRÔP ÔIL CONCENTRATE ³ (V/V)	
			GROUND	AIR	
CLETHODIM 2 EC	6 - 8 fl oz	8 – 16 fl oz			
+			1%		
STINGER	See STINGER label for rate	s		· · · ·	

¹ Make a second application of CLETODIM 2EC alone – without a tank mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges
 ² Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept

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



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

Table 13. CLETHODIM 2EC TANK MIXED WITH BETAMIX® OR BETANEX® APPLIED TO SUGAR

		BEEI			
·		ONTROLLED	WEED	APPLICATION	-
PRODUCT ²	COMMON NAME	SCIENTIFIC NAME	HEIGHT	RATES/ACRE ¹	
	<u></u>	+	(Inches)		-
CLETHODIM 2EC ³	Barnyardgrass	Echinochloa crus-galli	1 to 3 💠	8 fl oz	
+	Foxtail	Setaria spp	1 to 3	See BETAMIX	
BETAMIX OR	Foxtail Millet	Setaria italica	1 to 3	label for rates to	
BETANEX	Wild Oat	Avena fatua	1 to 3	control broadleaf	
1	Wild Proso Millet	Panicum miliaceum	1 to 3	weeds. No	1
1			• · · · · · · · · · · · · · · · · · · ·	additives are	į.
	1 1	i -		recommended in	
	 	! 	4	this tank mix.	
			•	See BETANEX	
1				label for rates to	•
			1	control broadleaf	!
			I	weeds. No	
4		1	;	additives are	·
1		1		recommended in	
·		1	:	this tank mix	
	Lass and the first state of the	المحافية أستام والمتعام والمحاصر المتابع	المتحقي المتحقي		-

Do not use crop oil concentrate. No additives are recommended in this tank mix. Make a second application of CLETHODIM 2EC alone – without a tank mix herbicide – according to the appropriate size and rate recommendations, if grass regrowth occurs or an additional flush of new grass emerges

- ² Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- ³ Make a second application of CLETHODIM 2EC at the full label rate with appropriate rate of crop oil concentration if grass regrowth occurs or an additional flush of new grass emerges

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

)	ļ	APPLICATION RATES/ACRE					1	
PRODUCT		ANNUAL	GRASSES CONTROLL	ED			ED OIL ²	
· · · · · · · · · · · ·		GRASSES	⊥ (Inches)		<u></u> V	/V <u>)</u>		
i				1	GROUND		AIR	
CLETHODIM 2	2EC	2-3 fl oz	Green Foxtail (1-2)		1 5%	,	1 5%	
· +		+	 Yellow Foxtail (1-2) 					
BETANEX	1	0 8 - 12 fl oz ³	: Barnyardgrass (1-2)					
Or		or	i Wild Oat (1-2)					
BETAMIX	l	$0.8 - 12 \text{ fl } \text{oz}^3$	Volunteer Cereals (1-2)	i		، _ اد		-

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

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

3 When sugar beets are in the cotyledon to 4-leaf stage, use 8 fl oz/A rate. This rate can be increased up to 12 fl oz/A when the smallest sugar beet plants in the field are in the 4 true leaf stage or larger.

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

Multiple micro-rate applications of CLETHODIM 2EC in tank mixtures with reduced rates of BETANEX or BETAMIX and methylated seed oils can be applied by air or ground equipment to sugar beets to control early germinating annual grasses listed above. Do not exceed the rate of 0.12 lb ai/A broadcast application for BETANEX or BETAMIX when in combination with these spray adjuvants. Note that maximum rate allowed varies depending on crop growth stage. The use of wetting agents or spray

adjuvants with conventional rates (0.73 to 1.22 lb ai/A) or multiple low rate (0.24 to 0.73 lb ai/A) applications of BETANEX or BETAMIX is prohibited on the BETANEX and BETAMIX master label Favorable climatic conditions, i.e. good conditions for plant growth and development are essential for adequate weed control. All use precautions and restrictions on the BETANEX and BETAMIX master labels must be followed.

DIRECTIONS FOR USING MICRO-RATE MULTIPLE APPLICATIONS OF CLETHODIM 2EC TANK MIXES.

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

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

Even with favorable climatic conditions, not all weeds will be adequately controlled. If multiple micro-rate applications do not adequately control weeds, conventional rates of CLETHODIM 2EC, BETANEX or BETAMIX and/or hand labor may be required. Plugging of spray nozzles may be encountered, due to the potential for formation of a precipitate in the spray solution that is often associated with micro-rate applications. If the BETANEX or BETAMIX rate exceeds 0.12 lb ai/A broadcast, methylated seed oils must not be added. This addition of methylated seed oils could increase the possibility of crop injury at dosage rates greater than 0.12 lb ai/A.

GROUND APPLICATION

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

AERIAL APPLICATION

EMINENT®

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

		CATION OF CLETHODIW 280		FOR CONTROL OF
	GRA	SS, WEEDS AND DISEASES	IN SUGAR BEET	
;		ÁPPL	ICATION RATES/AC	RE ¹
1	PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES	CRÓP ÖIL CONCENTRATE ³ (V/V)
; -	CLETHODIM 2EC	6 - 8 fl oz	8 - 16 fl oz	1%

13 fl oz

THE 45 TANK MIN ADDUCATION OF A STUDDIM 200 AND SUNCIDIDED FOR CONTROL OF

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

Refer to CLETHODIM 2EC and fungicide label for rates and weeds and diseases controlled

13 fl oz

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

8 May 2006

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

		SUNFLOWER					~		-
ļ	APPL	ICATION RATES/AC	<u>CRE'</u>	, T		CR	OP	• ~ •
PRODUCT ²	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE ³ (V/V)	Alfalfa ⁴	Cotton	Mint ^{4.5}	Peanut	Soybean	Sunflower
CLETHODIM 2EC	6 - 8 fl oz	8 - 16 fl oz		. – .	Ň	X	Х	1	• •
+	+	· +							
ORTHENE® 75 S	0.33 – 1.33 lbs	0 33 – 1 33 lbs	1				•	i	
		+ 0.05 + 0.16	1	!				1	,
ORTHENE 97	0.25 – 1.0 lb 6 – 8 fl oz	0.25 – 1.0 lb 8 – 16 fl oz	1%	+	- <u>x</u> !	Ϋ́.	¥ v	·	-
	i +	6 - 10 11 02	: 170			~	. ^	~	
ORTHENE® 90 S	0.25 – 1 lb	0.25 – 1 lb							
CLETHODIM 2EC	6 – 8 fl oz	8 – 16 fl oz	1%	<u>+</u>	X	• •	X	-	i -ţ
+	(+	1 4							I.
DANITOL® 2.4 EC	<u>10-2/3 – 16 fl oz</u>	<u>10-2/3 – 16 fl oz</u>	• • • • • •	• •	4				
CLETHODIM 2EC	6 - 8 fl oz	8 – 16 fl oz	1%		. 1				X¦
+				1	ł				;
ASANA XL®	See ASANA XL label	See ASANA XL	ļ						
CLETHODIM 2EC	6 - 8 fl oz	8 – 16 fl oz	1%						x
+ CLE1110DIW12E0	+	i 0 = 10 ii 02 +	T XI						~
WARRIOR®	See WARRIOR	See WARRIOR							
CLETHODIM 2EC	10 – 16 fl oz	10 – 16 fl oz	1%	Ϋ́Χ΄			•		
+ WARRIOR®	i + See WARRIOR i iabel	See WARRIOR label		r					
CLETHODIM 2EC	10 – 16 fl oz	10 – 16 fl oz	1%	X				•	-
+	+	· +							
BAYTHROID®		See BAYTHROID	1	•					
CLETHODIM 2EC	label	label 10 – 16 fl oz	1%	; x	•		۰.	I	l.
	10 – 16 fl oz	10 - 10 11 02	1 70	. ^			,		
DIMETHOATE	See DIMETHOATE	See					•		
	label	DIMETHOATE	1	()	· .		1	I	1
	1	label		1			l .		
CLETHODIM 2EC	10 – 16 fl oz	10 – 16 fl oz	1 – 2 pt	X			r		
+	+	+	:						
	See LORSBAN label	See LORSBAN label							
CLETHODIM 2EC	10 – 16 fl oz	10 – 16 fl oz	1%	Х					
POUNCE®	See POUNCE label	+ See POUNCE							
FUUNCE		label			: 		i		1

Make a second application of CLETHODIM 2EC alone - without a tank mix insecticide - according to the appropriate size and rate recommendations. If grass regrowth occurs or an additional flush of new grass emerges. ² Refer to CLETHODIM 2EC and insecticide label for rates and weeds and insects controlled.

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

⁴ Certain insecticides can cause temporary phytotoxic symptoms on alfalfa and mint foliage. See the insecticide label for further information. Prior to using any of these insecticide/herbicide tank mixtures, it

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is suggested a small area of the field be treated and observed for crop injury before treating the entire field

- ⁵ Rates for CLETHODIM 2EC for annual grass control in baby mint should be 6 8 fl oz/A, minimum of 8 fl oz/A for annual grass control in established mint and 8 16 fl oz/A for perennial grass control. Add a crop oil concentrate at the rate of 1 0 2.0 pts/A.
- ⁶ ORTHENE 90 S insecticide tank mix use with CLETHODIM 2EC is permitted only in a state having an approved Section 24(c) registration for ORTHENE 90 S use in soybeans
- ⁷ The rate for CLETHODIM 2EC for annual grass control in seedling alfalfa should be 6 8 fl oz/A
- For CLETHODIM 2EC plus LORSBAN® tank mix, reduce the adjuvant rate down to 1 0 pt/A when the LORSBAN rate is 1 0 pt/A or higher

Table 17. RECOMMENDATIONS FOR ROUNDUP READY VOLUNTEER CORN CONTROL IN ROUNDUP READY SOYBEANS WITH CLETHODIM 2EC HERBICIDE TANK MIX

Roundup Ready	CLETHODIM	GLYPHOSATE' RATE FOR	· · · · · · · ·
Volunteer Corn	2EC RATE FL	FORMULATIONS WITH BUILT IN	ADJUVANT
Height (Inches)	OZ/A	ADJUVANT	
<12	4	1.0 – 2 0 lb ai/A	Nonionic surfactant @
12 – 18		(Approx. equivalent to 22 – 44 fl	0 125 – 0.25% v/v plus
12 - 10	J	oz/A of ROUNDUP Weather MAX)	ammonium (AMS) @
18 - 24	6		` 8 5 – 17 lbs per 100
		•	gallons carrier

ļ	Roundup Ready Volunteer Corn Height (Inches)	CLETHODIM 2EC RATE FL OZIA	GLYPHOSATE [®] RATE FOR FORMULATIONS <u>WITHOUT</u> BUILT IN ADJUVANT	ADJUVANT
1	<12	4	Up to 2 0 lb ai/A	Crop oil concentrate @
1	12 – 18	5	(Equivalent to 32 – 64 fl oz/A of ROUNDUP Original)	1 pt/A plus ammonium sulfate (AMS) @ 8 5 –
۴	18 - 24	6		17 lbs per 100 gallons carrier

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

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

FALLOW LAND DIRECTIONS FOR USE

CLETHODIM 2EC can be used to control annual and perennial grasses in land that has been left fallow the previous year and on other non-producing agricultural areas. Make application at 6 – 8 fl oz/A for annual grasses and 8 – 16 fl oz/A for perennial grasses. CLETHODIM 2EC can be tank mixed with 2 4-D

ester or BANVEL® SFG for broad spectrum control when both grass and broadleaf weeds are the target pest. Apply a minimum of 8 fl oz/A CLETHODIM 2EC when both annual and perennial grasses occur in the same field.

GENERAL INFORMATION

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

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

Do not apply to drought stressed grasses.

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

Do not flood jet nozzles.

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

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

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

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

1		APF		FALLOW LAND			CROP OIL CONCENTRATE ²
	PRODUCT	ANNUAL GRASSES	· ·	PEREÑNIAL GRASSES	į	GROUND	AIR
	CLETHODIM 2EC	6 – 8 fl oz		8 – 16 fl oz		1%	1%
	+	+					
	2,4-D ester	0.5 lb/A					
;	or	or					
ļ	BANVEL SGF	See BANVEL SGF					
i		label for rates	i				·
	See CLETHODIN	12EC label for weed in	ein	ht and species c	ontrol Re	WEW BANVE	LSGE and 2.4-D

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

² Always use a crop oil concentrate or methylated seed oil containing at least 15% emulsifier at the listed rate, but not less than 1 pt/A, in the finished spray volume

RECOMMENDATIONS FOR GRASS S		REAS WITH CLE	THODIM 2EC
GRASS SPECIES	WEED STAGE	RATE FL	HIGH RATE
Annual and perennial grasses that exceed height claimed for control on height chart 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 2EC for g	rass suppression	

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

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

NBL Clethodim 2E	C Draft Label	8 May 2006	Page 36 of 41
PRODUCT	PRODUCT RATES	GRASS WEEDS CONTROLL/SUPPRESSEI Common Name Scientific	
CLETHODIM 2EC	10 – 12 fl oz/A	Tall Fescue Festu arundina	acea _ 60% green-up)
ammonium sulfate	(AMS) at 2.5 – 4 lbs xing Order. Thoroug	be applied with a crop oil concentrates s/A. hly mix spray grade ammonium sulf	
application in the s	a minimum of 3 wee pring at 40 – 60% ta	ICATION INSTRUCTIONS/PRECA eks prior to application to remove ex ill fescue green-up, prior to emerger er the CLETHODIM 2EC application	cess crop residue. Make nce of warm-season grasses.
		20 gallons water per acre at a spra w cone nozzles. Do not use flood je	
of CLETHODIM 2E		e warm season grasses established a-season grasses may cause injury	
Do not graze treate	ed fields or feed treat	ted forage and/or hay to livestock	
		ations are most effective if applied when or equal to 47°F	when average nighttime
PRODUCT CLETHODIM 2EC ADJUVANT: CLET ammonium sulfate	NONPRO PRODUCT RA 1-1/2 – 2 fl oz/A HODIM 2EC must b (AMS) at 2 5 – 4 lbs king Order Thorough	 Tall Fescue Seed-Heads (Festuca arundinacea) e applied with a crop oil concentrate 	S APPLICATION TIMING (50 to 90% Tall Fescue green-up) e at 1 qt/A plus a spray grade
Make application a	SPECIAL APPL t 50 – 90% tall fescu	ICATION INSTRUCTIONS/PRECA	UTIONS
If less tall fescue g	reen matter is preser	nt. use the higher CLETHODIM 2E0	Cirate
Do not mow area f	or two (2) weeks afte	er the CLETHODIM 2EC application	
Make application in the nozzle. Make a	n a minimum of 15 – pplication using flat (20 gallons water per acre at a spra fan or hollow cone nozzles. Do not	y pressure of 40 – 60 PSI at use flood nozzle
2,4-D ester may be controlled).	e added to this tank r	mix for broadleaf control (see 2,4-D	ester label for weeds
Do not graze treate	ed fields or feed treat	ted forage and/or hay to livestock	
DIRECTIONS FOR	USE	ORNAMENTALS	

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

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

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

	ORNAMENTAL TREES				
COMMON NAME	SCIENTIFIC NAME				
Alder, Red	Alnus rubra				
Ash	Fraxinus spp				
Basswood	<u>Tilia spp</u>				
Birch, European White	Betula pendula				
Birch, River	, Betula nigra				
Birch, White	Betula papyrifera				
Crabapple, Flowering	Malus halliana				
Dogwood, Flowering	Comus florida				
Golden Chain Tree	Labumum anagyroides				
Maples	Acer spp				
Mulberry, White	Morus alba				
Oaks	Quercus spp				
Olive, Wild	Elaeagnus angustifolia				
Redbud, Eastern	Cercis Canadensis				
Sweet Gum. American	Liquidambar styracıflua				
	ND COVERS				
Bugleweed, Carpet	Ajuga reptans				
Ivy, English	Hedera helix				
Japanese Spruge	Pachysandra terminalis				
Lilytur <u>f</u>	Linope muscari				
Moneywort	Lysimachia nummularia				
Mondo Grass, White	Ophiopogon jaburan				
Mondo Grass, Dwarf	Ophiopogon japonicus				
Periwinkle, Lesser	Vinca minor				
GARDEN FLO	WERS AND PLANTS				
Ageratum	Ageratum spp				
Alyssum*. Sweet	Lobularia maritima				
Asparagus Fern	Asparagus setaceus				
Bleeding Heart	Dicentra spectabilis				
Cast Iron Plant	Aspidistra elatior				
Chrysanthemum	Chrysanthemum spp.				
Cinquefoil	Potentilla spp				
Coleus	Coleus spp.				
	Heuchera sanguinea				
Cranesbill	Gernanium spp				
Dahlia	Dahlia spp				
Daisy, Trailing African	Osteospermum fruticosum				
, Daylily	Hemerocallis spp				
Dusty Miller	Senecio cineraria				
Euonymus	Euonymus spp				

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Jasmine, Asiatic Trachelospermum asiaticum		
Jasmine. Star		· · · ·
Juniper Juniperus spp		
Lantana Lantana spp		
Nandina Bamboo, Heavenly Nandinia domestica		
Oleander, common Nerium oleander	leander, common	Iverium oleandei

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Oregon Grape	, Mahonia aquifolium
Photinia	Photinia spp.
Pittosporum	Pittosporum spp
Podocarpus	Podocarpus spp
Privet	Ligustrum spp
Pyracantha	, Pyracantha spp.
Rhododendron	Rhododendron spp
Rose	Spiraea bumalda
Sweet Olive	Osmanthus fragrans
Viburnum	Vibumum tinus
Wisteria	Wisteria spp.
Yellow Sage/Shrub Verbena	Lantana camara
*Slight foliage or flower speckling has	s been observed on these species

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

GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT	RATE FL OZ/ACRE	HIGH RATE ²
		(Inches)	OLMORE	
Barnyardgrass	Echinochloa crus-galli	2 - 8	. 8 .	16
Broadleaf Signalgrass	Brachiana platyphylla	2-6	· 8 · · · ·	16
Brome			• • • • •	
California	Bromus carinatus	2 - 6	8	16
Cheat	Bromus secalinus	2 - 6 2 - 6	8	
Downy	Bromus tectorum	2 - 6	8	16 16
Ripgut	Bromus diandrus	2 - 6		16
Canarygrass	Phalaris canariensis	1-4	8	16
Crabgrass				
Hairy	Digitaria adscendens	2 - 6'	8	16
Large	Digitaria sanguinalis	2 ~ 6**	8	16
Smooth	Digiteria ischaemum	2 - 6**	8	16
Southern	Digiteria ciliaris	2 ~ 6**	8	16 '
Crowfootgrass	Dactyloctenium aegyptium	2 - 6**	8	16
Fall Panicum	Panicum dichotomiflorum	2-8	8	16
Field Sandbur	Cenchrus incertus	2 - 6	8	16
Foxtail				
Giant	Setana faben	2 - 12	8	16
Green	Setaria vindis	2 - 8	8	16
Yellow	Setana glauca	2 – 8	8	16
Goosegrass	Eleusine indica	2 ~ 6**	8	16
Itchgrass	Rottboellia cochin	2 – 6	8	<u>16</u> <u>16</u> 16
Junglerice	Echinochloa colona	2 - 6	8	16
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 - 6	. 8 .	
Rabbitsfootgrass	Polypogon monspeliensis	1 – 4	8	16
Red Rice	Oryza sativa	1 – 3	8	16
Rygrass		·	· · · · · · · · · · · · · · · · · · ·	
Hardy	Lolium remotum	2 - 6		16
Italian	Lolium multiflorum	2 - 6	8	16
Seedling Johnsongrass	Sorghum halepense	4 - 10	8	16
Shattercane	Sorghum bicoloi	6 – 18	8	16
Southwestern Cupgrass	Enchloa gracilis	_2 - 6	8	16
Sprangletop				
Amazon	Leptochloa panicoides	2 - 6	8	16
Bearded	Leptochloa fascicularis	2 - 6	8	16

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Mexican	Leptochloa uninervia	2 - 6	8	16
Red	Leptochloa filiformis	2-6	8	16
Texas Panicum	Panicum texanum	2-6	8	16
Volunteer Cereals			· · · · · · · · · · · · · · · · · · ·	
Barley	Hordeum volgare	2-6	8	16
Oats	Avena sativa	2-6	8	16 '
Rye	Secale cereale	2 - 6	8	16
Wheat	Triticum aestivum	2 - 6	8	16
Volunteer Corn	Zea mays	4 – 12	6	8
Volunteer Corn	Zea mays	12 – 24	8	16
Volunteer Grain Sorghum	Sorghum bicolor	8 – 12	8	16
Wild Oats	Avena fatua	2-6	8	16
Wild Proso Millet	Panicum miliaceum	2 – 10	8	16
Witchgrass	Panicum capillare	2 - 8	8	16
Woolly Cupgrass	Eroichloa villosa	2 - 8	8	16

*Generally occurs between 3-leaf stage and tillering

**Length of lateral growth

8 fl oz/A = approximately 0 2 fl oz/1000 sq ft

16 fl oz/A = approximately 0 4 fl oz/1000 sq ft

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

RECOMMENDATIONS FOR PERENNIAL GRASSES

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

GRASS SPECIES	WEED HEIGHT	RATE FL	HIGH
	(Inches)	OZ/ACRE ¹	RATE ²
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)	\perp 3 (or up to 6° runners)	8	16
Quackgrass (Elytrigia repens)			
First Application	4-8	8	16
Repeat Application(s) (If regrowth occurs)	4 - 8	8	16
Rhizome Johnsongrass (Sorghum halepense)		······································	/
First Application	12 - 24	. 8	16
Repeat Application(s) (if regrowth occurs)	6 – 18	16	8
Wirestem Muhly (Muhlenbergia frondosa)	<u></u>	· · · · · · · · · · · · · · · · · · ·	
First Application	4 - 8	8	16
Repeat Application(s) (if regrowth occurs) 8 fl oz/A = approximately 0.2 fl oz/1000 sq ft	4 8	8	_ 16

² 16 fl oz/A = approximately 0.4 fl oz/1000 sq ft

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

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The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of NISSO BASF Agro Co., Ltd. ("NBL") or the Seller. All such risks shall be assumed by the Buyer.

NBL warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks, referred to above

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