34704-	-954		07/2	5/200	6	
SAVINOUN PROTECTION	Offic Regis 1200	e of Pest tration D: Pennsylv	PROTECTIO Licide Prog ivision (75 Tania Ave., D.C. 2046	rams 505P) NW	EPA Reg. Number: 34704- 954	Date of Issuance:
Name and Add	cess of Regi	x Regi Rero (under strant (i	ESTICIDE: istration egistrati FIFRA, as amen nclude ZIP	ON (ded)	Term of Issuance Condition Name of Pestició LPI Clethe	al
Loveland Pr PO Box 1280 Greeley, CO Note: Changes in registration must label in commerce number.	5 0 80632-12 1 labeling diff st be submitted	86 ering in su to and acc	epted by the	Registration	Division prior	
On the basis of registered/rereg is in no way to order to protect suspend or cance name in connect	pistered under be construed a bealth and th ol the registra on with the re	the Federal s an endors e environme tion of a p gistration	Insecticide, ement or recont, the Admin esticide in a of a product	Fungicide a mmendation c istrator, on ccordance wi under this A	nd Rodenticide A of this product A his motion, may th the Act. The act is not to be	Act. Registration by the Agency. In y at any time acceptance of any
FIFRA sec. 1. Su reregistrat	3(c)(7)(A ubmit and/ tion of yo) provid or cite our produ	led that all data uct when	you: require the Agen	d in accord d for regia cy requires	stration/
registrants 2. Ma release the	ake the fo	llowing	label ch			before you
b. Whe Non-p: not 1:	roducing A	appears gricultu his labe	on the l iral Area el, appli	abeling s sectio	in the Fall ns delete	low Land and "For crops de at least
Signature of App PA Form 8570-6			J. Mil	Ver	Date: JUL	2 5 2006

1/41

page 2 EPA Reg. No. 34704-954

> Fallow land is defined as arable land not under rotation that is set at rest for a period of time ranging from one to five years before it is cultivated again, or land usually under permanent crops, meadows or pastures, which is not being used for that purpose for a period of at least one year. Land that is treated with pesticide and planted with food crops 30 days after application is, by definition, not fallow land nor non-producing agricultural areas.

> It is also reasonable to expect that uses of pesticides on food crops or in soil in which food crops are to be grown will result in residues on the harvested crop. Therefore, direct application to land that is planted to a food crop is considered a food use. Tolerances or exemption from the requirement of a tolerance must be established for the pesticide in the crop planted in the treated soil.

c. If all of the Precautionary Statements section does not appear on the front panel add a referral statement similar to the following:

See side panel for additional precautionary statements.

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.

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)

LPI Clethodim

with COMMENTS In EPA Letter Dated: JUL 2.5 2006 Under the Federal Insecucide, Fungicide, and Rodenticide Act as amended, for the pesticide

registered under EPA Reg. No.

341<u>04 - 954</u>

ACCEPTED

314

ACTIVE INGREDIENT:	By Wt.
Clethodim*	
OTHER INGREDIENTS:	
Total:	100.0%
Contains petroleum distillates	

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

EPA Reg No. 34704-NET CONTENTS EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

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 on skin or	Take off contaminated clothing.
clothing:	Rinse skin immediately with plenty of water for 15-20 minutes.
-	Call a poison control center or doctor for treatment advice.
If swallowed:	Immediately call a poison control center or doctor.
	Do not induce vomiting unless told to do so by 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 inhaled:	Move person to fresh air.
	If person is not breathing, call 911 or an ambulance, then give artificial respiration,
	preferably mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
Have the produ treatment. FOR	ct container or label with you when calling a poison control center or doctor, or going for R A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-
7976.	
Note to Physic	ians: Contains petroleum distillate vomiting may cause aspiration pneumonia.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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



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PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart. **Applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton ≥ 14 mils, shoes plus socks, and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination,

notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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

NON-AGRICULTURAL USE REQUIREMENTS

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

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

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or applicator advisor. Read and follow the entire label of each product to be used in the tank mix with this product.

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

FOR USE ON: Soybeans, Cotton, Ornamentals, Sugar beets, Onions (dry bulbs and green), Garlic, Shallots (dry bulbs and green), Alfalfa, Peanuts, Dry Beans, Sunflower, Canola, Flax, Mustard Seed, Potato, Sweet Potato, Yam (and other Tuberous¹ and Corm¹ Vegetables), Tomatoes, Peppers (bell and non-bell), Eggplants (and other Fruiting Vegetables), Carrot, Radish, Garden Beet, Horseradish (and other Root Vegetables²), Leaf Lettuce, Broccoli, Cabbage, Cauliflower (and other Head and Stem Brassica Vegetables³), Mustard Greens (and other Leafy Brassica Greens⁴), Spinach, Celery, Rhubarb (and other Leaf Petioles⁵), Cranberry, Strawberry, Squash (including Pumpkins), Cucumber, Melons (including Cantaloupes and Watermelons), Mint, 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 LPI CLETHODIM 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 LPI CLETHODIM include: burdock, edible; celeriac; chervil, turniprooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.

³ Other head and stem brassica vegetables approved include: Chinese broccoli; Brussels sprouts; Chinese (napa) cabbage; Chinese mustard; cavalo broccoli; and kohlrabi.

⁴ Other leafy brassica greens approved for use with LPI CLETHODIM 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.

LPI CLETHODIM is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided in this label.

LPI CLETHODIM is a selective postemergence herbicide for control of annual and perennial grasses. LPI CLETHODIM does not control sedges or broadleaf weeds.

Repeated use of LPI CLETHODIM (or similar postemergence grass herbicide with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species.

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

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

Control Symptoms

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

APPLICATION INFORMATION

Timing of Applications

Apply LPI CLETHODIM postemergence to actively growing grasses according to rate table recommendations. Applications made to grass plants stressed by insufficient moisture, hot or cold temperatures, or to grass plants exceeding recommended growth stages may result in unsatisfactory control. Do not apply under these conditions.

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

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

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ADDITION OF ADJUVANT OR CROP OIL CONCENTRATE

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Сгор	Adjuvant Recommendations
Soybeans, Alfalfa, Dry Bean, Cotton, Peanuts, Sugar Beet, Sunflower, Potatoes	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 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 LPI CLETHODIM applications, in addition to the recommended rate of crop oil concentrate. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.
Onions (dry bulbs and green), Garlic, Shallots (dry bulbs and green), Carrot, Radish, Garden	Always use a crop oil concentrate at 1% v/v to finish spray volume unless tank mix instructions indicate otherwise.
Beet, Horseradish (and other Root Vegetables), Leaf Lettuce, Broccoli, Cabbage, Cauliflower (and other Head and Stem Brassica Vegetables), Mustard Greens (and other Leafy Brassica Greens), Spinach, Celery, Rhubarb (and other leafy petioles), Cranberry, Sweet Potatoes, Yams (and other tuberous and corm vegetables), Canola, Flax, Mustard Seed, Tomatoes, Peppers (bell and non-bell), Eggplants (and other fruiting vegetables), Strawberry, Squash (including Pumpkins), Cucumber, Melons (including Cantaloupes and Watermelons), Mint, and Clover	Addition of liquid fertilizer is not recommended for these crops.
Ornamental Plants, Non- Bearing Food Crops	Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. $(0.25\% v/v)$. Use of crop oil concentrate is not recommended since it may injure flowers and foliage.
Conifer Trees, Fallow Land (and other non—producing agricultural areas), and Non- Crop or Non-Planted Areas	Always use a crop oil concentrate containing at least 15% emulsifier at $1\% v/v$ (but not less than 1 pt./A) in the finished spray volume.
*Acceptable crop oil concer and 15% emulsifier. A crop oil base and must meet all th exempt ingredients, provide	trates would be those that contain a minimum of 80% oils oil concentrate must contain either a petroleum or vegetable he following criteria: be non-phytotoxic, contain only EPA- good mixing quality and be successful in local experience. s have proven more satisfactory than unrefined vegetable

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Ground Application

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

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

Air Application

Use a minimum of 3 gals. of spray solution per acre unless otherwise directed in this label. Increase spray volumes up to 10 gals. as grass or crop foliage becomes dense.

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

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

Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix $\frac{1}{4}\%$ to $\frac{1}{2}\%$ (0.33 oz. to 0.65 oz. per gal.) LPI CLETHODIM and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz. per gal.) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at $\frac{1}{4}\%$ (0.33 oz. per gal.) by volume.

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

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

This product may be applied to onions and garlic by sprinkler systems including center pivot, lateral move, end tow, side (wheel) row, travelers, big gun, solid set, or hand move. Do not apply by chemigation to any other crop or to this crop using any other type of irrigation system.

Apply LPI CLETHODIM at the high rate recommended for annual grasses (16 fl. oz./A) 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.

Apply LPI CLETHODIM 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 LPI CLETHODIM into the irrigation water at a constant flow. Constant agitation must be maintained in the chemical supply tank during the entire period of herbicide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period.

It is not recommended that LPI CLETHODIM be applied through an irrigation system connected to a public water system. 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.

Use Precautions

- 1. Apply this product only through irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- 2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.
- 3. If you have any questions about calibration, you should contact your State Extension Service Specialists, equipment manufacturers or other experts.
- 4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
- 5. A person knowledgeable of chemigation system and responsible for its operation or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 6. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must also contain a functional, normally closed solenoidoperated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 12. Do not apply when wind speed favors drift beyond the area intended for treatment.

RESTRICTIONS AND LIMITATIONS

GENERAL

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 LPI CLETHODIM or reduced grass control may result.

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

For canola, flax, mustard seed, clover and radish crops, do not apply more than 8 fl. oz. of LPI CLETHODIM (0.08 lb. ai) per acre per season. For clover and radish crops, do not apply more than 16 fl. oz of LPI CLETHODIM (0.25 lb ai) per acre per season. For all other crops, do not apply more than 32 fl. oz. of LPI CLETHODIM (0.50 lb ai) per acre per season. Application on Long Island, New York, is restricted to no more than 16 fl. oz. of LPI CLETHODIM (0.25 lb. ai) per acre per season.

Do not apply more than 8 fl. oz/A of LPI CLETHODIM **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, and strawberry. Do not apply more than 5 fl. oz./A of LPI CLETHODIM per application to canola, flax or mustard seed. **Exceeding these recommendations may result in unacceptable crop injury.**

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

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

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

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

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

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

AVOID SPRAY DRIFT

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

- Do not spray if wind speeds are or become excessive.

- Do not spray if wind speed is 10 MPH or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions.

- Do not spray if winds are gusty.

- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive plants are located nearby.

- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.

- Further reductions in drift can be obtained by:

1. Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications. 2. Orienting nozzles straight back with the windstream, using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.

3. Increasing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift.

4. Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

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

Crops ¹	Minimum	Use Rates Per	Crop Oil	Special Use Instructions
	Time from	Acre	Concentrate Rates Per	
	Application to Harvest (PHI)		Acre ⁽²⁾	
Alfalfa including: Sainfoin, Holy Clover. Birdsfoot Trefoil ⁽³⁾	15 days before grazing, feeding or harvesting (cutting) for forage or hay	6 – 16 fl. oz. ⁽³⁾	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 LPI CLETHODIM. ⁽⁶⁾ The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
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⁾	Refer to appropriate Table for reduced rate recommendations for the control of small annual grasses. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass. rhizome Johnsongrass, red rice, wild oats, volunteer cereals, and volunteer

CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS FOR LPI CLETHODIM

	L	*		corn.
Beet, Garden	30 days	6 – 8 fl. oz.	1% v/v in the	Do not apply more than 8 fl.
			finished spray	oz./A in a single application.
			volume.	For repeat applications make on
				a minimum of a 14 day interval.
Carrot	30 days	6 – 8 fl. oz.	1% v/v in the	Do not apply more than 8 fl.
		-	finished spray	oz./A in a single application.
			volume.	For repeat applications make on
			, ordinated	a minimum of a 14 day interval.
Canola	75 days	4 – 5 fl. oz.	1% v/v in the	Do not apply after crop has
Canola	15 uays	4 = 5 11. 02.	finished spray	begun bolting. Crop injury may
			volume.	occur when LPI CLETHODIM
			volume.	
				is applied during the bloom
				period.
				Do not exceed 5 fl. oz./A in a
			1.01	season.
Celery including:	30 days	6 – 8 fl. oz.	1% v/v in the	Do not apply more than 8 fl.
Cardoon Chinese Celery			finished spray	oz./A in a single application.
Celtuce			volume.	For repeat applications make on
Florence Fennel				a minimum of 14 day interval.
Swiss Chard				
Clover (Idaho,	15 days before	6 – 16 fl. oz.	1% v/v in the	For use on clover grown in
Oregon, Washington	grazing,	• ••	finished spray	Idaho, Oregon and Washington
Only)	feeding, or		volume.	only.
	harvesting			Do not exceed 16 fl. oz. of LPI
	(cutting) for			CLETHODIM (0.25 lb. ai) per
	forage or hay			acre in a season.
Cotton	60 days	6 – 16 fl. oz.	1 qt. by ground	Do not graze treated fields or
Cotton	oouays	0 - 10 11, 02.	or $1\% v/v$ (but	feed treated forage or hay to
			not less than 1	livestock.
			pt./A) by $air^{(5)}$	The addition of AMS has shown
			pure by an	improved grass control for
				difficult to control species
:	1			including: quackgrass, rhizome
				Johnsongrass, red rice, wild oats,
				volunteer cereals, and volunteer
Creation	20 days	6 – 8 fl. oz.	1% v/v in the	Corn.
Cranberry	30 days	0 – 0 H. 0Z.		Do not apply more than 8 fl.
			finished spray	oz./A in a single application.
			volume.	For repeat applications make on
Cusurbite	14 days	6 – 8 fl. oz.	1% v/v in the	a minimum of a 14 day interval.
Cucurbits including:	14 days	0 – ŏ H. OZ.		Do not apply more than 8 fl.
Cantaloupes (all)			finished spray	oz./A in a single application.
Cucumber			volume.	For repeat applications make on
Gherkin				a minimum of a 14 day interval.
Honeydew Melon				
Muskmelons (all)				
Pumpkin				
· · · · · ·				
Squash (all)				
Watermelon				
Watermelon Fallow Land	N/A	6 – 16 fl. oz.	1% v/v (but	Do not plant any crop for 30
Watermelon Fallow Land Conifer Trees (and	N/A	6 – 16 fl. oz.	not less than 1	days after application unless
Watermelon Fallow Land Conifer Trees (and other non-producing	N/A	6 – 16 fl. oz.		
Watermelon Fallow Land Conifer Trees (and other non-producing agricultural areas)	N/A	6 – 16 fl. oz.	not less than 1	days after application unless
Watermelon Fallow Land Conifer Trees (and other non-producing agricultural areas) Non-Crop or Non-	N/A	6 – 16 fl. oz.	not less than 1 pt./A) in the	days after application unless clethodim is registered for use in
Watermelon Fallow Land Conifer Trees (and other non-producing agricultural areas)	N/A	6 – 16 fl. oz.	not less than 1 pt./A) in the finished spray	days after application unless clethodim is registered for use in

			containing at least 15% emulsifier.	
Flax	75 days	4 – 5 fl. oz.	1% v/v in the finished spray volume.	Apply prior to bloom. Crop injury may occur when LPI CLETHODIM is applied during the bloom period. Do not exceed 5 fl. oz. (0.06 lb. ai) per acre in a season.
Fruiting Vegetable (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. For repeat applications make on a minimum of a 14 day interval.
Head and Stem Brassica Vegetables, including: Broccoli, Cabbage, Caul:flower, 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. For repeat applications make on a minimum of 14 day interval.
Leafy Brasscia Greens including: Broccoli Raab, Cabbage, Chinese (Bok Choy), Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens, Turnip Greens	14 days	6 - 8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval.
Leaf 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. For repeat applications make on a minimum of a 14 day interval.
Mint	21 days	6 – 16 fl. oz. ⁽⁴⁾	l 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. For repeat applications make on a minimum of a 14 day interval.
Mustard Seed	75 days	4 – 5 fl. oz.	1% v/v in the finished spray volume.	Do not apply after crop has begun bolting. Crop injury may occur when LPI CLETHODIM is applied during the bloom period. Do not exceed 5 fl. oz.(0.08 lb. ai) of LPI CLETHODIM per acre in a season.
Onions (Dry Bulbs Only) Gartic Shallots (Dry Bulbs Only)	45 days	6 – 16 fl. oz. ^{(7), (8)}	1% v/v in the finished spray volume.	Minimum of 20 gals./A spray volume by ground in entire U.S. Minimum of 20 gals./A spray volume by air in California ⁽⁹⁾
Onions, Green including: Leeks, Scallions or Spring Onions. Japanese Bunching Onions, Green Shallots, Green Eschalots	14 days	6 – 8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval.

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14/41

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Ornamentals	N/A	6 – 16 fl. oz.	Use of crop oil	Add a non-ionic surfactant
-			concentrate is	containing at least 80% active
Non-Bearing Food Crops	N/A	6 – 8 fl. oz. ⁽⁸⁾	not	ingredient at the rate of 1 pt. per
Crops			recommended	50 gals. (0.25% v/v).
			since it may injure flowers	Sugar maples cannot be tapped for syrup within one year of LPI
			and foliage.	CLETHODIM application.
			See Special	
			Use	
			Instructions	
Peanut	40 days	6 – 16 fl. oz.	l qt. by ground or 1% v/v (but	The addition of AMS has shown
			not less than 1	improved grass control for difficult to control species
			pt./A) by air ⁽⁵⁾	including; quackgrass, rhizome
				Johnsongrass, red rice, wild oats,
				volunteer cereals, and volunteer
Patuto	30 401-	6 – 16 fl. oz.		Corn.
Potato	30 days	0 – 10 II. OZ,	l qt. by ground of 1% v/v (but	The addition of AMS has shown improved grass control for
			not less than 1	difficult to control species
			pt./A) by air ⁽⁵⁾	including: quackgrass, rhizome
				Johnsongrass, red rice, wild oats,
				volunteer cereals, and volunteer
Radish	15 days	6 – 8 fl. oz.	1% v/v in the	corn. Do not apply more than 8 fl.
Racish	15 days	0 - 0 11. 02.	finished spray	oz./A in a single application.
			volume.	Do not apply more than 16 fl. oz.
				(0.25 lb. ai) per acre in a season.
				For repeat applications make on
Root Vegetables		6 – 8 fl. oz.	1% v/v in the	a minimum of 14 day interval. Do not apply more than 8 fl.
(except Radish),	50 days	0 4 0 11. 02.	finished spray	oz./A in a single application.
including: Chicory,			volume.	For repeat applications make on
Ginseng, Horseradish, Tumip				a minimum of a 14 day interval.
Rhubarb	30 days	6 – 8 fl. oz.	1% v/v in the	Do not apply more than 8 fl.
	-		finished spray	oz./A in a single application.
			volume.	For repeat applications make on
Southean	60 days	6 – 16 fl. oz.	Lat hy man -	a minimum of a 14 day interval.
Soybean	oo days	0 - 10 H. 0Z.	l qt. by ground or 1% v/v (but	Do not graze treated fields or feed treated forage or hay to
			not less than 1	livestock.
			pt./A) by air ⁽⁵⁾	Refer to appropriate Table for
				reduced rate recommendations
				for the control of small annual
				grasses. The addition of AMS has shown
			ł	improved grass control for
				difficult to control species
				including: quackgrass, rhizome
			1	Johnsongrass, red rice, wild oats,
				volunteer cereals and volunteer corn.
Spinach	14 days	6 – 8 fl. oz.	1% v/v in the	Do not apply more than 8 fl.
o humon		5 0 H. UZ.	finished spray	oz./A in a single application.
			volume.	For repeat applications make on
I	I			
Strawberry	4 days	6 – 8 fl. oz.	1% v/v in the	a minimum of a 14 day interval. Do not apply more than 8 fl.

·····		1	-T	
			finished spray	oz./A in a single application.
			volume.	For repeat applications make on
				a minimum of a 14 day interval.
Sugar Beet	40 days	6 – 16 fl. oz.	1 qt. by ground	Refer to appropriate Table for
			or 1% v/v (but	reduced rate recommendations
			not less than 1	for the control of small annual
			pt./A) by $air^{(5)}$	grasses.
				The addition of AMS has shown
				improved grass control for
				difficult to control species
				including: quackgrass, rhizome
				Johnsongrass, red rice, wild oats,
				volunteer cereals, and volunteer
<u> </u>		6 – 16 fl. oz.	1	corn. The addition of AMS has shown
Sunflower	70 days	0 - 10 Il. 02.	1 qt. by ground	· · · · ·
			or 1% v/v (but	improved grass control for
			not less than i	difficult to control species
			pt./A) by $air^{(5)}$	including: quackgrass, rhizome
				Johnsongrass, red rice, wild oats,
				volunteer cereals, and volunteer
				corn.
Sweet Potato, Yam	30 days	6 – 16 fl. oz.	1% v/v in the]
and other tuberous			finished spray	
and corm			volume.	
vegetables (except				
potato), including:				
Artichoke				
Chinese				
Jerusalem Cassava				
Bitter				
Sweet				
Ginger				
Tomato	20 days	6 – 16 fl. oz.	1% v/v in the	
	20 du j 5		finished spray	
			volume.	
N/A = Not Applicable		I	volume.	

N/A = Not Applicable

⁽¹⁾LPI CLETHODIM 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. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. See the Addition of Adjuvant and Crop Oil Concentrate section for further information.

⁽³⁾ LPI CLETHODIM may be applied to seedling or established alfalfa grown for seed, hay, silage, green chop, or direct grazing.

⁽⁴⁾ For weed control in established alfalfa and mint, the minimum use rates is 8 fl. oz./A

⁽⁵⁾ 1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N, or 32%N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to LPI CLETHODIM applications, in addition to the recommended rate of crop oil concentrate.

⁽⁶⁾ Do not apply LPI CLETHODIM and 2,4-DB as a tank mix to alfalfa unless the 60 day feeding, grazing, and harvesting restriction on the 2,4-DB label can be observed.

⁽⁷⁾ For ground applications to garlic or shallots, do not exceed 8 fl. oz./A in a single application. For air applications to onions, garlic or shallots, do not exceed 8 fl. oz./A in a single application. For garlic and shallots, do not exceed 2 applications per season. In CA for air applications to onions, do not exceed 2 applications per season.

⁽⁸⁾ If LPI CLETHODIM is applied as a spot treatment to onions, garlic, shallots, or non-bearing food crops, care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.
⁽⁹⁾ In California, do not apply LPI CLETHODIM to onions, garlic, or shallots until crop has at least two full

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leaves. In California, 14 day spray intervals are recommended between the application of LPI CLETHODIM and liquid nitrogen or other herbicide applications. Injury to crop may 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 nonbell), EGGPLANTS (and other Fruiting Vegetables), CARROT, RADISH, GARDEN BEET, HORSERADISH, (and other Root Vegetables²), LEAF LETTUCE, BROCCOLI, CABBAGE, CAULIFLOWER (and other Head and Stem Brassica Vegetables³), MUSTARD GREENS (and other Leafy Brassica Greens⁴), SPINACH, CELERY, RHUBARB (and other Leaf Petioles⁵), CRANBERRY, STRAWBERRY, SQUASH (including PUMPKINS), CUCUMBER, MELONS (including CANTALOUPES and WATERMELONS), MINT, 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 LPI CLETHODIM 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 LPI CLETHODIM include: burdock, edible; celeriac; chervil, turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret and turnip.

³ Other head and stem brassica vegetables approved include: Chinese broccoli; Brussels sprouts; Ch:nese (napa) cabbage; Chinese mustard; cavalo broccoli; and kohlrabi.

⁴ Other leafy brassica greens approved for use with LPI CLETHODIM 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.

IMPORTANT

Plant tolerance to LPI CLETHODIM 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 LPI CLETHODIM have investigated the safety factor to plants not listed on the label.

NON-BEARING FOOD CROPS

LPI CLETHODIM SHOULD NOT BE APPLIED TO NON-BEARING FRUIT OR NUT CROPS WHICH ARE GROWN FOR ROOT STOCK.

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

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

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

CONIFER TREES

LPI CLETHODIM 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	Tsuga canadensis
Hemlock, Western	Tsuga heterophylla
Pines	Pinus spp.
Spruces	Picea spp.
Yew	Taxus spp.

NON-CROP OR NON-PLANTED AREAS

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

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

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

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.
- Do not apply more than 8 fl. oz./A of LPI CLETHODIM 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 and strawberry. Do not apply more than 5 fl. oz./A of LPI CLETHODIM per application to canola, flax, or mustard seed.

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

Mexican	Leptochloa uninervia	2 to 6	6	8
Red	Leptochloa filiformis 2 to 6		6	8
Texas Panicum	Panicum texanum	2 to 6	6	8
Volunteer Cereals ⁽³⁾				
Barley	Hordeum vulgare	2 to 6	6	8
Oats	Avena sativa	2 to 6	6	8
Rye	Secale cereale	2 to 6	6	8
Wheat	Triticum aestivum	2 to 6	6	8
Volunteer Corn ⁽²⁾	Zea mays	4 to 12	4	6
Volunteer Corn (S.R.) ⁽¹⁾	Zea mays	4 to 12	8	(Suppression only)
Volunteer Corn ⁽²⁾	Zea mays	12 to 24	6	8
Volunteer Grain	Sorghum bicolor	8 to 12	6	8
Sorghum 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) When a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum LPI CLETHODIM use rate for control is 8 fl. oz./A.

(4) Rates higher than 8 fl. oz./A may be applied in certain geographic areas, cropping situations, or environmental conditions or cropping situations, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 8 to 16 fl. oz./A may be applied. Do not apply more than 8 fl. oz./A of LPI CLETHODIM 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, and strawberry. Do not apply more than 5 fl. oz./A of LPI CLETHODIM per application to canola, flax or mustard seed.

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

GRASS SPECIES	WEED STAGE	RATE (FL. OZ/A)	HIGH RATE
Annual & Perennial Grasses Listed in	See Table	8	16
Grass Table			

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

Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of LPI CLETHODIM 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.

Annual Grass Control: Apply LPI CLETHODIM at the grass sizes indicated in the Recommendation for Annual Grass Table and rates indicated above (8 to 16 fl. oz./A). If a grass has been cut, apply LPI CLETHODIM after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint

canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring and summer-germinating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to LPI CLETHODIM may vary from region to region. Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule spray spring and summer germinating grasses as early in the season as possible, after initial green-up. Spray fall-germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth, or the onset of flowering.

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

Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height. Always add a crop oil concentrate at 1 qt./A by ground or 1% v/v (but not less than 1 pt./A) to the finished spray volume by air.

RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH LPI CLETHODIM

GRASS SPECIES	WEED STAGE	RATE (FL. OZ./ACRE)	HIGH RATE
Annual Bluegrass (Poa annua)	to 4-leaf	6*	16
*Use a minimum of 8 fl. oz.	/A to control annual	bluegrass in seedling an	d established

alfalfa and mint.

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

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

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

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

21/41

DIRECTIONS FOR USE IN DRY BEANS, SOYBEANS & SUGAR BEETS AT A REDUCED RATE

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

- Apply only to actively growing grasses at recommended weed heights.

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

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

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (INCHES)	RATE FL. OZ/ACRE ⁽¹⁾
Barnyardgrass	Echinochloa crus-galli	1 to 4	4
Broadleaf Signalgrass	Brachiaria 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 cilaris	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	Setaria glauca	1 to 4	4
Seedling Johnsongrass	Sorghum halepense	1 to 6	5
Shattercane	Sorghum bicolor	4 to 10	4
Texas Panicum	Panicum texanum	1 to 4	5
Volunteer Corn**	Zea mays	4 to 12	4
Wild Proso Millet Panicum milaceum		1 to 6	4
Wild Oats Avena fatua		1 to 4	5

*Length of lateral growth

** Not S.R. Corn

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



DIRECTIONS FOR USE IN CANOLA, FLAX, AND MUSTARD SEED AT REDUCED RATES

RECOMMENDATIONS FOR ANNUAL GRASSES

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

Grass Species	Scientific Name	Weed Height	Rate
		(inches)	(fl. oz./acre)
Barnyardgrass	Echinochloa crus-galli	1 – 4	4
Crabgrass			
Large	Digitaria sanguinalis	1-4*	5
Smooth	Digitaria ischaemum	1 - 4*	5
Fall Panicum	Panicum	1-4	4
	dichotomiflorum		
Foxtail			
Giant	Setaria faberi	1-4	4
Green	Setaria viridis	1-4	5
Yellow	Setaria glauca	1-4	5
Shattercane	Sorghum bicolor	4 - 10	4
Volunteer Cereals			
Barley	Hordeum vulgare	1-4	5
Oats	Avenaa satifa	1-4	5
Wheat	Triticum aestivum	1-4	5
Volunteer Corn**	Zea mays	4 - 12	4
Wild oats	Avena fatua	1-4	5
Wild Proso Millet	Panicum miliaceum	1-6	4

* Length of lateral growth

** Not S.R. corn.

RECOMMENDATIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.
- Do not apply more than 8 fl. oz./A of LPI CLETHODIM 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, and strawberry. Do not apply more than 5 fl. oz./A of LPI CLETHODIM per application to canola, flax or mustard seed.

GRASS SPECIES/SCIENTIFIC NAME	WEED HEIGHT (INCHES)	RATE (FL. OZ./ACRE)	HIGH RATE
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	8	16
Fescue, Tall (Festuca arundicnacea)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	8	16
Repeat Application(s) (if regrowth occurs)	2 to 6	8	16
Orchardgrass (Dactylis glomerata)			
First Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Quackgrass* (Agropyron repens)			
First Application	4 to 12	8	16
Repeat Application(s) (if regrowth occurs)	4 to 12	8	16
Rhizome Johnsongrass (Sorghum			
halepense)			
First Application	12 to 24	8	16
Repeat Application(s) (if regrowth occurs)	6 to 18	6	8
Wirestem Muhly (Muhlenbergia frondosa)			
Firs: Application	4 to 8	8	16
Repeat Application(s) (if regrowth occurs)	4 to 8	8	16
Perennial Bluegrass*			
[Roughstalk (Poa trivialis)]			
[Kentucky (Poa prantensis)]			
First Application	2 to 4	8	16
Repeat Application(s) (if regrowth occurs)	2 to 4	8	16

*Control of quackgrass and perennial bluegrass with LPI CLETHODIM may be enhanced by adding AMS at 2.5 to 4.0 lbs./A.

TANK MIXES GENERAL INFORMATION

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

- 1. Geographic restrictions all products are not registered for use in all areas and rates may vary from one region of labeled use to another;
- 2. Crop rotation restrictions;
- 3. Applicator certification requirements;
- 4. Worker safety rules (e.g. protective clothing, reentry time, posting);
- 5. Soil type or soil characteristics (e.g. pH, OM);
- 6. Maximum dosage or number of applications per season;
- 7. Rain free period required; or
- 8. Application timing (e.g. pre-harvest interval).
- 9. For all crops except clover and radish: Do not exceed a total of 32 fl. oz./A (0.5 lb. ai/A) of LPI CLETHODIM per season, whether applied alone or in tank mix applications.



For clover and radish: Do not exceed a total of 16 fl. oz. LPI CLETHODIM (0.25 lb. ai) per acre per season.

For Canola, mustard and flax: Do not exceed a total of 5 fl. oz LPI CLETHODIM (0.08 lb. ai) per acre per season.

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

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

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

MIXING INSTRUCTIONS

Use the jar test to verify mixing and compatibility properties. Maintain agitation throughout the spray application. Failure to agitate the spray mixture may result in improper mixing of the herbicides and unsatisfactory weed control.

LPI CLETHODIM Tank Mix: Add ¹/₂ of the required water to the spray tank and begin agitation. Add the required amount of LPI CLETHODIM and mix thoroughly. Then add the required amount of tank mix partner and continue mixing. Finally, add the required amount of crop oil concentrate and/or the nitrogen fertilizer and the remaining water.

INFORMATION ON ANTAGONISM

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

PRODUCT	PRODUCT RATE/ACRE ⁽¹⁾	GRASS HEIGHT (inches)	CROP OIL CONCENTRATE/ ACRE ⁽²⁾	28%N OR 32%N QTS./A OR 2.5 TO 4.0 LBS. AMS
LPI	3 fl. oz.	Foxtail 1 to 3	l qt.	I to 2 qts./A or
CLETHODIM		Fall Panicum 1 to 3		2.5 to 4.0 lbs. AMS
+	4 fl. oz.	Foxtail 1 to 4	1 qt.	1 to 2 qts./A or
2,4-D ester		Fall Panicum 1 to 4		2.5 to 4.0 lbs. AMS

Table 1. LPI CLETHODIM TANK MIXES⁽³⁾ TO CONTROL ANNUAL GRASSES WHEN USED AS A BURNDOWN IN NO-TILL SOYBEANS

6 to 8 fl. oz.	(See Grass Chart	l qt.	I to 2 qts./A or
+	for grasses		2.5 to 4.0 lbs. AMS
 0.5 lb. ai	claimed)		

25/41

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

⁽¹⁾ If regrowth occurs or an additional flush of new grass emerges, make a second application of LPI CLETHODIM according to the appropriate size and rate recommendations.

⁽²⁾ Always use a crop oil concentrate with at least 15% emulsifier at the listed rate in the finished spray volume. ⁽³⁾ The following products can be tank mixed with LPI CLETHODIM plus 2,4-D Ester: DUAL®

MAGNUM, PROWL®, SENCOR® and SENCOR plus DUAL MAGNUM.

LPI CLETHODIM MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (Refer to the recommendation tables above for specific grasses and growth stages.)

Int recommendation	APPLICATION RATES/ACRE ⁽¹⁾				
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP CONCENTR	OIL ATE ⁽³⁾ V/V	
	GRASSES	GRASSES	GROUND	AIR	
LPI CLETHODIM	6 to 8 fl. oz.	8 to 16 fl. oz.		·····	
+	+	+	0.5 to 1%	1%	
COBRA®	12.5 fl. oz.	12.5 fl. oz.			
LPI CLETHODIM	8 to 10 fl. oz.	10 to 16 fl. oz.			
+ BASAGRAN® 4 SL	+ 1 to 2 pts.	+ 1 to 2 pts.	1%	1%	
LPI CLETHODIM	6 to 8 fl. oz.	6 to 8 fl. oz.			
÷	+	+	0.5 to 1%	1%	
BLAZER® 2 SL	1 to 1.5 pts.	1 to 1.5 pts.			
	6 to 8 fl. oz.	6 to 8 fl. oz.			
LPI CLETHODIM	Refer to the	Refer to the			
+ FLEXSTAR® HL ⁽⁵⁾	FLEXSTAR HL label	FLEXSTAR HL label	1%	. 1%	
FLEXSTAR® HL ^C	for specific application	for specific application			
	rates.	rates.			
LPI CLETHODIM	8 to 10 fl. oz.	8 to 16 fl. oz.	.~		
+	+	+	1%	1%	
CLASSIC® 25 DG	0.5 to 0.75 oz.	0.5 to 0.75 oz			
LPI CLETHODIM (4)	6 to 8 fl. oz.	8 to 16 fl. oz.	10	1.07	
+ PURSUIT®	+ 4 fl. oz.	+ 4 fl. oz.	1%	1%	
LPI CLETHODIM ⁽⁴⁾	6 to 8 fl. oz.	8 to 16 fl. oz.		····	
	+	8 10 10 II. 02. +	0.5 to 1%	1%	
+ REFLEX® 2 LC	0.75 to 1.5 pts.	0.75 to 1.5 pts.	0.5 10 170	1 70	
LPI CLETHODIM ⁽⁴⁾	8 to 10 fl. oz.	0.75 to 1.5 pts.			
+	+		0.5%	1%	
GALAXYTM	32 fl oz.		0.5 10	170	
LPI CLETHODIM (4)	8 to 10 fl. oz.				
+	+				
COBRA	6 to 8 fl. oz.		0.5%	1%	
+	+				
CLASSIC 25 DG	0.5 to 0.75 oz.		1		
LPI CLETHODIM (4)	8 to 10 fl. oz.				
+	+		ļ		
COBRA	6 to 10 fl. oz.		0.5%	1%	
+	+		-		
BASAGRAN 4 SL	1 to 1.5 pts.				
LPI CLETHODIM ⁽⁴⁾	8 to 10 fl. oz.		0.5%	1%	



· · · · · · · · · · · · · · · · · · ·	1	1	1	
COBRA	+ 6 to 10 fl. oz.			
+ PURSUIT	+ 4 fl. oz.			
LPI CLETHODIM ⁽⁴⁾	8 to 10 fl. oz.		· · · · · · · · · · · · · · · · · · ·	
+	+		0.5%	1%
STORM®	1.5 pts.			
+	8 to 10 fl. oz. +			
RESOURCE®	4 fl. oz.		1%	1%
+	+			1
PURSUIT	4 fl. oz. 8 to 10 fl. oz.			· · · · · · · · · · · · · · · · · · ·
+	8 t0 10 n. 02.			
RESOURCE	4 fl. oz.		1%	1%
+	+			
BASAGRAN	l pt.			
LPI CLETHODIM ⁽⁴⁾ +	8 to 10 fl. oz. +			
RESOURCE	4 fl. oz.		1%	1%
+	+			
CLASSIC	0.5 oz.			
LPI CLETHODIM ⁽⁴⁾	6 to 8 fl. oz.			
+ COBRA	+ 6 fl. oz.		0.5%	1%
+	+		0.5 /0	170
RESOURCE	4 fl. oz.			
LPI CLETHODIM ⁽⁴⁾	6 to 8 fl. oz.	8 to 16 fl. oz.		
+ FIRSTRATE®	+ 0.3 oz./A	+ 0.3 oz./A	1%	
LPI CLETHODIM ⁽⁴⁾	6 to 8 fl. oz.	8 to 16 fl. oz.	····	
+	+	+		
COBRA	6 to 8 fl. oz.	6 to 8 fl. oz.	1%	
+	+	+	:	
FIRSTRATE LPI CLETHODIM ⁽⁴⁾	0.3 oz./A 6 to 8 fl. oz.	0.3 oz.	·····	
	+		1%	
RAPTOR® (1 AS)	4 to 5 fl. oz.			
LPI CLETHODIM (4)	6 to 8 fl. oz.			
+	+		1.07	
COBRA +	6 to 8 fl. oz. +		1%	
RAPTOR (1 AS)	4 to 5 fl. oz./A			
LPI CLETHODIM ⁽⁴⁾	6 to 8 fl. oz./A ⁽⁷⁾			
+	+		1 qt./A]
SYNCHRONY® STS® LPI CLETHODIM ⁽⁴⁾	$\begin{array}{c} 0.5 \text{ oz.} \\ 6 \text{ to } 8 \text{ oz.} / \text{A}^{(7)} \end{array}$			(
	6 10 8 02./A]
COBRA	4 to 8 fl. oz.	••	J pt./A	[
+	+			
SYNCHRONY STS	0.5 oz./A			
LPI CLETHODIM (4)	6 to 8 fl. oz.		1 at / A	
+ RESOURCE	+ 4 to 12 fl. oz./A		l qt./A	
LFI CLETHODIM ⁽⁴⁾	8 to 10 fl. oz.			{
+	+		1%	}
FRONTROW TM	Refer to FRONTROW			L

label for use rates			
⁽¹⁾ If grass regrowth occurs or an additional f	lush of new grass emer	rges, make a second ap	plication of

LPI CLETHODIM alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.

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

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

⁽⁴⁾ The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, or 32% N) is recommended when LPI CLETHODIM is tank mixed with PURSUIT, RESOURCE, GALAXY, STORM, FIRSTRATE, SYNCHRONY, RAPTOR, FRONTROW, COBRA plus CLASSIC, COBRA plus BASAGRAN, COBRA plus PURSUIT, COBRA plus FIRSTRATE, COBRA plus SYNCHRONY and COBRA plus RAPTOR. An equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

⁽⁵⁾ Refer to FLEXSTAR HL label for geographic and rotational restrictions.

⁽⁶⁾ Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN SOYBEANS AT A REDUCED RATE table.

PRODUCT ⁽²⁾	APPLICATION RATES/ACRE ⁽¹⁾ V/V		COMMENTS	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	
LPI CLETHODIM ⁽⁴⁾	6 to 8 fl. oz.	8 to 16 fl. oz.	1% v/v	
+ COBRA® + MSMA (4.0 lbs./gal.) or	height limitations i label for weed heig See MSMA label f	for cotton. Refer to ght and species cont for rates to control b	broadleaf weeds and the LPI CLETHODIM rolled. proadleaf weeds and the LPI CLETHODIM	Reduce broadcast rate in proportion to the band area actually treated.
MSMA (6.6 lbs /gal.)	label for weed heig	ght and species cont	rolled.	

LPI CLETHODIM TANK MIXED WITH COBRA® AND MSMA APPLIED POST DIRECTED TO COTTON

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

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

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

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

LPI CLETHODIM TANK MIXED WITH BUCTRIL® 4 EC TO CONTROL EMERGED WEEDS IN BXN COTTON AS A BROADCAST APPLICATION

28/41

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

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

⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of LPI CLETHODIM 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 at 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 LPI CLETHODIM plus BUCTRIL tank mix within 75 days of harvest.

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

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

LPI CLETHODIM TANK MIXED WITH STINGER® APPLIED TO SUGAR BEET

PRODUCT ⁽²⁾	APPLICATION RATES/ACRE ⁽¹⁾		CROP OIL CONCENTRATE ⁽³ V/V	
PRODUCI	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
LPI CLETHODIM +	6 to 8 fl. oz.	8 to 16 fl. oz.	1%	1%
STINGER	See STINGER la	bel for rates		

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

⁽²⁾ Broadleaf weed control may be reduced when grass populations are tall 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.

LPI CLETHODIM TANK MIXED WITH BETAMIX® OR BETANEX® APPLIED TO SUGAR BEET

PRODUCT ⁽²⁾	WEEDS (CONTROLLED	WEED HEIGHT	APPLICATION
	COMMON NAME	SCIENTIFIC NAME	(inches)	RATE/ACRE ⁽¹⁾
LPI CLETHODIM ⁽³⁾	Barnyardgrass	Echinochloa crus-galli	1 to 3	8 fl. oz.
+	Foxtail	Setaria spp.	1 to 3	
BETAMIX	Foxtail Millet	Setaria italica	1 to 3	
OR	Wild Oat	Avena fatua	1 to 3	
BETANEX	Wild Proso Millet	Panicum miliaceum	1 to 3	
			control broadle additives are tank mix.	recommended in the
			control broadle	X label for rates to eaf weeds. No recommended in the

⁽¹⁾ Do not use crop oil concentrate. No additives are recommended in the tank mix.

⁽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⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of LPI CLETHODIM at full label rate with appropriate rate of crop oil concentrate.

TANK MIX APPLICATION OF LPI CLETHODIM AND 2,4-DB HERBICIDE FOR THE CONTROL OF GRASSES AND BROADLEAF WEEDS IN ALFALFA

A tank mix of LPI CLETHODIM plus 2,4-DB (up to 1.0 lb. ai./A) can be used to control grass and broadleaf weeds listed on the two product labels. Include a crop oil concentrate containing at least 15% emulsifiers at 1% v/v in the finished spray. Follow rate and other recommendations on the individual herbicide labels when applying this tank mix.

NOTE: LPI CLETHODIM 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.

TANK MIX APPLICATION OF LPI CLETHODIM AND PURSUIT HERBICIDE FOR THE CONTROL OF GRASSES AND BROADLEAF WEEDS IN ALFALFA

A tank mix of LPI CLETHODIM plus PURSUIT herbicide or PURSUIT DG herbicide can be used to control annual grass and broadleaf weeds listed on the two product labels. Include a crop oil concentrate at 1% v/v in the finished spray. For annual grass control in alfalfa using LPI CLETHODIM plus PURSUIT, use 8 to 16 fl. oz./A of LPI CLETHODIM.

Before using this tank mix, read and understand the PURSUIT and PURSUIT DG herbicide 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.

TANK MIX APPLICATION OF LPI CLETHODIM AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN SOYBEANS, COTTON & PEANUTS

	·····	APPLICATION RATES/ACRE ⁽¹⁾		
	PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE (V/V) ⁽³⁾
ł	LPI CLETHODIM	6 to 8 fl. oz.	8 to 16 fl. oz.	1%
	+	+	+	
	ORTHENE® 75 S	0.33 to 1.33 lbs.	0.33 to 1.33 lbs.	
	or ORTHENE 97 (for use in cotton and peanuts only)	0.25 to 1.0 lb.	0.25 to 1.0 lb	
	LPI CLETHODIM	6 to 8 fl. oz.	8 to 16 fl. oz.	1%
	+	+	+	
	ORTHENE 90 S ⁽⁴⁾	0.25 to 1 lb.	0.25 to 1 lb.	
[LPI CLETHODIM	6 to 8 fl. oz.	8 to 16 fl. oz.	1%
	÷	+	+	
	DANITOL® 2.4 EC(5)	10 2/3 to 16 fl. oz.	10 2/3 to 16 fl. oz.	
	(for use in cotton and peanuts only)			

⁽¹⁾ If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of LPI CLETHODIM alone (without a tank mix insecticide) according to the appropriate size and rate recommendations.

⁽²⁾ Refer to LPI CLETHODIM 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⁾ Insecticide tank mix use with ORTHENE 90 S in soybeans is permitted only in a state having an approved Section 24(c) registration for ORTHENE 90 S use in soybean.

⁽⁵⁾ DANITOL tank mix is labeled for use in cotton and peanuts only, not soybeans.

TANK MIX APPLICATION OF LPI CLETHODIM AND INSECTICIDES FOR THE CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA

LPI CLETHODIM can be tank mixed with the following insecticides for use in alfalfa: BAYTHROID®, Dimethoate, LORSBAN®, POUNCE® or WARRIOR®. The LPI CLETHODIM rate should be 6 to 8 fl. oz./A for annual grass control in seedling alfalfa, minimum of 8 fl. oz./A for annual grass control in established alfalfa and 8 to 16 fl. oz./A for perennial grass control. Crop oil concentrate should be added at the rate of 1.0 to 2.0 pts./A. For the LPI CLETHODIM 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.

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

Applications must be made at a timing which falls within the guidelines of the LPI CLETHODIM label relative to weed sizes and application equipment. For these applications it is necessary to use application equipment designed for herbicide applications.

TANK MIX APPLICATION OF LPI CLETHODIM AND INSECTICIDES FOR THE CONTROL OF GRASS WEEDS AND INSECTS IN MINT

LPI CLETHODIM can be tank mixed with the following insecticides for use in mint: ORTHENE®. The LPI CLETHODIM rate should be 6 to 8 fl. oz./A for annual grass control in baby mint, minimum of 8 fl. oz./A for annual grass control in established mint and 8 to 16 fl. oz./A for perennial grass control. Crop oil concentrate should be added at the rate of 1.0 to 2.0 pts./A.

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

Applications must be made at a timing which falls within the guidelines of the LPI CLETHODIM label relative to weed sizes and application equipment. For these applications, it is necessary to use application equipment designed for herbicide applications.

RECOMMENDATIONS FOR ROUNDUP READY VOLUNTEER CORN CONTROL IN ROUNDUP READY SOYBEANS WITH LPI CLETHODIM TANK MIX

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Product	Grass Species	Weed Stages	Rate (fl. oz./A)	Adjuvant Rate ⁽¹⁾	
LPI CLETHODIM	RR	Up to 12 inches	$4^{(1)}$ to $6^{(2)}$	AMS 2.5 lbs./A	
+	Volunteer				
GLY STAR® Plus	Corn	Up to 24 inches	6 to 8		
or			+		
ROUNDUP			Up to 2 qts./A		
Ultra®			(See the GlyStar Plus,		
(or glyphosate			Roundup Ultra, or		
formulations			other glyphosate		
labeled for RR			labels for use rates).		
soybean) ⁽³⁾					

⁽¹⁾ At the 4 fl. oz./A rate of LPI CLETHODIM, the adjuvant recommendation is 1 pt./A crop oil concentrate plus AMS at 2.5 lbs./A.

⁽²⁾ Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height.
 ⁽³⁾ For glyphosate formulations that do not contain a built-in adjuvant system, the adjuvant recommendation is 1 pt./A crop oil concentrate plus AMS at 2.5 lbs./A or NIS at 0.25% v/v plus

AMS at 2.5 lbs./A.

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

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

DIRECTIONS FOR USE IN FALLOW LAND

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

GENERAL INFORMATION

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

LPI CLETHODIM IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

PRODUCT	APPLICATION RATE/ACRE ⁽¹⁾		CROP OIL CONCENTRAT	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
LPI CLETHODIM +	6 to 8 fl. oz.	8 to 16 fl. oz.	10	70
2,4-D Ester	0.5 lb./A			
or Albaugh DICAMBA SG or	See the Albaugh DICAMBA SG or BANVEL SGF label for rates			
BANVEL SGF				

⁽¹⁾ Refer to LPI CLETHODIM label for weed height and species control. Review Albaugh DICAMBA SG, BANVEL SGF and 2,4-D labels for crop restrictions, use rates and weeds controlled.

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

LPI CLETHODIM FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

PRODUCT	PRODUCT RATE	GRASS WEEDS CONTROLLED/SUPPRESSED		WEED STAGE
		Common Name	Scientific Name	
LPI CLETHODIM	10 to 12 fl. oz./A	Tall Fescue	Festuca arundinacea	4 to 6 inches tall (40 to 60% green-up)
2			concentrate at 1 qt./A, p	1

ammonium sulfate at 2.5 to 4 lbs./A. Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add LPI CLETHODIM, then add crop oil concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

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

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

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

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

NOTE: LPI CLETHODIM applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47 degrees Fahrenheit.

LPI CLETHODIM FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

Product	Product Rate	Suppression	Application Timing
LPI CLETHODIM	1 1/2 to 2 fl. oz./A	Tall Fescue Seed-Heads	50 to 90% Tall Fescue
		(Festuca arundinacea)	green-up
ADJUVANT: LPI CLE	FHODIM must be appl	ied with crop oil concentrate	at 1 qt./A, plus a spray
grade ammonium sulfate	e at 2.5 to 4 lb./A. Reco	ommended Mixing Order: T	horoughly mix spray
grade ammonium sulfate	e in water, add LPI CLI	ETHODIM, then add crop oil	concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

Apply at 50 to 90% tall fescue green-up.

Use the higher LPI CLETHODIM rate if less tall fescue green matter is present.

Do not mow area for two weeks after the LPI CLETHODIM application.

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

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

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

DIRECTIONS FOR USE IN ORNAMENTALS

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

IMPORTANT

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

The following plants have shown a tolerance for LPI CLETHODIM applications:

ORNAMENTAL TREES			
COMMON NAME	SCIENTIFIC NAME		
ALDER, RED	Alnus rubra		
ASH	Fraxinus spp.		
BASSWOOD	Tilia spp.		
BIRCH, EUROPEAN WHITE	Betula pendula		
BIRCH, RIVER	Betula nigra		
BIRCH, WHITE	Betula papyrifera		
CRABAPPLE, FLOWERING	Malus halliana		
DOGWOOD, FLOWERING	Cornus florida		



GOLDON CHAIN TREE	Labumum anagyroides	
MAPLES	Acer spp.	
MULBERRY, WHITE	Morus alba	
OAKS	Quercus spp.]
OLIVE,WILD	Elaeagnus angustifolia	
REDBUD, EASTERN	Cercis canadensis	
SWEETGUM	Liquidambar styraciflua	

GARDEN FLOWERS AND PLANTS

COMMON NAME	SCIENTIFIC NAME
AGERATUM	Ageratum spp.
ALYSSUM*, SWEET	Lobularia maritima
ASPARAGUS FERN	Asparagus setaceus
BLEEDING HEART	Dicentra spectabilis
CAST IRON PLANT	Aspidistra elatior
CHRYSANTHEMUM	Chrysanthemum spp.
CINQUEFOIL	Potentilla spp.
COLEUS	Coleus spp.
CORALBELLS	Heuchera sanguinea
CRANESBILL	Geranium spp.
DAHLIA	Dahlia spp.
DAISY, AFRICAN	Arctotis stoechadifolin
DAYLILY	Hemerocallis spp.
DUSTY MILLER	Centaurea cineraria
EUONYMUS	Euonymus spp.
GAZANIA	Gazania spp.
GERANIUM, HOUSE	Pelargonium hortorum
HEATHER, FALSE	Cuphea hyssopifolia
HOSTA	Hosta fortunei
IRIS	Iris spp
JASMINE TOBACCO	Nicotiana alata
LOOSESTRIFE	Lythrum salicaria
MARIGOLD	Tagetes spp.
PARTRIDGEBERRY	Mitchella repens
PETUNIA*	Petunia hybrida
PHLOX	Phlox spp.
PINKS	Dianthus spp.
PORTULACA	Portulaca grandiflora
SALVIA	Salvia spp.
SAXIFRAGE	Saxifraga spp.
SEDUM	Sedum spp.
SELLOUM	Philodendron selloum
SNAPDRAGON*	Antirrhinum majus
SWEET FLAG	Lacorus spp.
TICKSEED	Coreopsis grandiflora
TOUCH-ME-NOT	Impatiens spp.

.

36/41

VERBENA	Verbena spp.	
VIOLET	Viola spp.	
YARROW, COMMON	Achillea millefolium	
ZINNIA	Zinnia elegans	

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

GROUND COVERS

COMMON NAME	SCIENTIFIC NAME	
BUGLEWEED, CARPET	Ajuga reptans	· · · ·
IVY, ENGLISH	Hedera helix	
JAPANESE SPURGE	Pachysandra terminalis	
LILYTURF	Liriope muscari	
MONEYWORT	Lysimachia nummularia	
MONDO GRASS, WHITE	Ophiopogon jaburan	
MONDO GRASS, DWARF	Ophiopogon japonicus	
PERIWINKLE, COMMON	Vinca minor	

<u>SHRUBS</u>			
COMMON NAME	SCIENTIFIC NAME		
ABELIA	Abelia spp.		
ANISE, PURPLE	Illicium floridanum		
AUCUBA	Aucuba spp.		
AZALEA*	Rhododendron spp.		
BAMBOO	Bambusa spp.		
BARBERRY, JAPANESE	Berberis thunbergii		
BARBERRY, MAGELLAN	Berberis buxifolia		
BAYBERRY	Myrica pensylvanica		
BOTTLEBRUSH	Callistemon citrinus		
BOXWOOD, COMMON	Buxus sempervirens		
CAMELLIA	Camellia japonica		
CANDYTUFT	Iberis sempervirens		
CLEYERA	Cleyera japonica		
CORALBERRY	Ardisia crenata		
CRAPE MYRTLE	Lagerstroemia indica		
COYOTE BRUSH	Baccharis pilularis		
FIG, CREEPING	Ficus pumila		
GARDENIA	Gardenia spp.		
HOLLY	Ilex spp.		
HONEYSUCKLE	Lonicera spp.		
INDIAN HAWTHORN	Raphiolepis indica		
JASMINE	Jasminum spp.		
JASMINE, ASIATIC	Trachelospermum asiaticum		
JASMINE, CONFEDERATE	Trachelospermum jasminoides		
JUNIPER	Juniperus spp.		
LANTANA	Lantana spp.		
NANDINA*	Nandinia domestica		

OLEANDER, COMMON	Nerium oleander
OREGON GRAPE	Mahonia aquifolium
PHOTINIA	Photinia spp.
PITTOSPORUM	Pittosporum spp.
PODOCARPUS	Podocarpus spp.
PRIVET	Ligustrum spp.
PYRACANTHA	Pyracantha spp.
RHODODENDRON	Rhododendron spp.
ROSE	Rosa spp.
SPIREA	Spiraea bumalda
TEA OLIVE	Osmanthus fragrans
VIBURNUM	Viburnum tinus
WISTERIA	Wisteria spp.
YELLOW SAGE/SHRUB VERBENA/LANTANA	Lantana camara

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

RECOMMENDATIONS FOR ANNUAL GRASSES IN ORNAMENTALS

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

GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT	RATE FL.	HIGH RATE ⁽²⁾
		INCHES	OZ./ACRE ⁽¹⁾	
Barnyardgrass	Echinochloa crus-galli	2 to 8	8	16
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	8	16
Brome				
California	Bromus carinatus	2 to 6	8	16
Cheatgrass	Bromus secalinus	2 to 6	8	16
Downy	Bromus tectorum	2 to 6	8	16
Ripgut	Bromus diandrus	2 to 6	8	16
Canarygrass	Phalaris canariensis	1 to 4	8	16
Crabgrass				
Наігу	Digitaria adscendens	2 to 6**	8	16
Large	Digitaria sanguinalis	2 to 6**	8	16
Smooth	Digitaria ischaemum	2 to 6**	8	16
Southern	Digitaria ciliaris	2 to 6**	8	16
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	8	16
Fall Panicum	Panicum dichotomiflorum	2 to 8	8	16
Field Sandbur	Cenchrus incertus	2 to 6	8	16
Foxtail				
Giant	Setaria faberi	2 to 12	8	16
Green	Setaria viridis	2 to 8	8	16
Yellow	Setaria glauca	2 to 8	8	16
Goosegrass	Eleusine indica	2 to 6**	8	16
Itchgrass	Rottboellia cochinchinensis	2 to 6	8	16
Junglerice	Echinochloa colona	2 to 6	8	16
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	8	16
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	8	16
Red Rice	Oryza sativa	1 to 3	8	16

Ryegrass				
Hardy	Lolium remotum	2 to 6	8	16
Italian	Lolium multiflorum	2 to 6	8	16
Seedling Johnsongrass	Sorghum halepense	4 to 10	8	16
Shattercane	Sorghum bicolor	6 to 18	8	16
Southwestern	Eriochloa gracilis	2 to 6	8	16
Cupgrass				
Sprangletop	T			
Amazon	Leptochloa panicoides	2 to 6	8	16
Bearded	Leptochloa fascicularis	2 to 6	8	16
Mexican	Leptochloa uninervia	2 to 6	8	16
Red	Leptochloa filiformis	2 to 6	8	16
Texas Panicum	Panicum texanum	2 to 6	8	16
Volunteer Cereals	Ţ			
Barley	Hordeum vulgare	2 to 6	8	16
Oats	Avena sativa	2 to 6	8	16
Rye	Secale cereale	2 to 6	8	16
Wheat	Triticum aestivum	2 to 6	8	16
Vo.unteer Corn	Zea mays	4 to 12	8	16
Volunteer Corn	Zea mays	12 to 24	8	16
Volunteer Grain	Sorghum bicolor	8 to 12	8	16
Sorghum		_		
Wild Oats	Avena fatua	2 to 6	8	16
Wild Proso Millet	Panicum miliaceum	2 to 10	8	16

38/41

Eriochloa villosa * Generally occurs between 3-leaf stage and tillering.

Panicum capillare

** Length of lateral growth.

Witchgrass

Woolly Cupgrass

⁽¹⁾ 8 fl. oz./A = approximately 0.2 fl. oz./1000 sq. ft.

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

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

2 to 8

2 to 8

8

8

16

16

RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH LPI CLETHODIM IN ORNAMENTALS

GRASS SPECIES	WEED STAGE	RATE FL. OZ./ACRE	HIGH RATE		
Annual Bluegrass (Poa annua) to 4-leaf 6 16					
Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within					

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

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

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature. Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

31/41

RECOMMENDATIONS FOR PERENNIAL GRASSES

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

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

(1) 8 fl. oz./A = approximately 0.2 fl. oz./1000 sq. ft.

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

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

STORAGE AND DISPOSAL

PROHIBITIONS

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

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

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

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

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

40/41

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41/41

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