GROUP

HERBICIDE



Active Ingredient:	By Weight:
Clethodim, (E)-2[1-[[(3-chloro-2-propenyl)oxy]limino]propyl]-5-[2-(eth	ylthio)propyl]-3-hydroxy-2-cyclohexen-1-one 36.7%
Other Ingredients*:	
Total:	
*Contains Petroleum Distillates	Contains: 3.0 lb Clethodim per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCÍON

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

See inside booklet for additional First Aid, Directions for Use, and Precautionary Statements.

FOR PRODUCT INFORMATION CALL: 1-866-761-9397

Produced For: **ARYSTA LIFESCIENCE NORTH AMERICA, LLC** 15401 Weston Parkway, Suite 150 Cary, NC 27513

EPA Reg. No. 66330-414 EPA Est. No. 070989-M0-001 AD041113V2 103439-A



	FIRST AID				
If swallowed: Immediately call a poison control center or doctor. Do not induce vomitting 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 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 clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.				
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 treatment advice. 				

NOTE TO PHYSICIAN: Contains petroleum distillates. Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause aspiration pneumonitis.

HOT LINE NUMBER

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

FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROSAR: 1-866-303-6952 or 1-651-603-3432.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contact with eyes or clothing. Wear protective eyewear, long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Viton, Selection Category F. G).

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves, Category G (such as Barrier Laminate or Viton ≥ 14 mils).
 - For more options, follow the instructions for Category G on an EPA chemical-resistance category selection chart.
- · Shoes plus socks
- · Protective eyewear

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

ENGINEERING CONTROLS STATEMENTS

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

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

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

Important.

Read these entire DIRECTIONS FOR USE and WARRANTY AND DISCLAIMER STATEMENT before using SHADOW® 3EC HERBICIDE.

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 produce 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, Category G (such as Barrier Laminate or Viton ≥ 14 mils)
- · Shoes plus socks
- · Protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

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

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

PRODUCT INFORMATION

SHADOW 3EC HERBICIDE is a selective postemergence herbicide for control of annual and perennial grasses. SHADOW 3EC HERBICIDE does not control sedges or broadleaf weeds. SHADOW 3EC HERBICIDE is a systemic herbicide which is translocated from the treated foliage to the growing points of the leaves, shoots and roots. Uptake into the plant is primarily through its leaves. Thorough coverage of the foliage is important for consistent grass control. The treated grass weeds show a reduction in vigor and growth. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Depending on grass species treated and environmental conditions, symptoms will generally be observed in 7 to 14 days after application. Avoid contact of this product with desirable grass crops, such as corn, rice, sorghum, small grains, or turf as these and other grass crops will be injured or killed.

RESISTANCE MANAGEMENT

For resistance management, **SHADOW 3EC HERBICIDE** is a Weed Science Society of America Group 1 Herbicide listed under the Herbicide Resistant Action Committee (HRAC). Any weed population may contain or develop plants naturally resistant to **SHADOW 3EC HERBICIDE** and other Group 1 Herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Where possible, rotate the use of **SHADOW 3EC HERBICIDE** with herbicides that have a different mode of action. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. If poor performance occurs and cannot be attributed to adverse weather or application conditions, a resistant biotype may be present.

The use of **SHADOW 3EC HERBICIDE** should conform to resistance management strategies established for the use area. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area. Appropriate resistance-management strategies should be followed.

CROPS AND USES

SHADOW 3EC HERBICIDE is not recommended for use on vegetable crops being grown for seed production unless specific instructions are included in this labeling.

This product is for use on the following crops and uses:

Alfalfa, Asparagus, Canola*, Clover**, Corn (Field)***, Cotton, Flax*, Garlic, Hops, Mint, Mustard Seed*, Peach, Peanuts, Safflower, Sesame, Soybeans, Strawberry, Sunflower, and

Root vegetables Crop Group Subgroup 1B [Beets (Garden), Burdock (edible), Carrot, Celeriac, Chervil (Turnip-rooted), Chicory, Ginseng, Horseradish, Parsley (Turnip-rooted), Parsnip, Radish, Radish (Oriental), Rutabaga, Salsify (Black and Spanish), Skirret, Turnip],

Root vegetables Crop Group Subgroup 1C (Arracacha, Arrowroot, Artichoke* (Globe, Chinese and Jerusalem), Canna (Edible), Cassava (Bitter and Sweet), Chayote (Root), Chufa, Dasheen, Ginger, Leren, Potato. Sweet Potato. Tanier, Tumeric, Turnio, Yam (Bean and Truel).

Leaves of Root and Tuber Vegetables Crop Group 2 [Beet (Garden and Sugar), Burdock (edible), Carrot, Cassava (Bitter and Sweet), Celeriac, Chervil (Turnip-rooted), Chicory, Dasheen (Taro), Parsnio, Radish, Radish (Oriental). Rutabaga. Salsify (Black), Sweet Potato, Tanier (Cocovam), Turnio, Yam (Truel).

Bulb Vegetables Crop Group 3 [Garlic (Bulb and Great head (Elephant)), Leek, Onion (Dry Bulb and Green, Welsh), and Shallot],

Leafy Greens Crop Group Subgroup 4A [Amaranth, Arugula, Chervil, Chrysanthemum (Edible leaved and Garland), Corn Salad, Cress (Garden and Upland), Dandelion, Dock, Endive, Lettuce, Orach, Parsley, Purslane (Garden and Winter), Radicchio (Red Chicory), Spinach (New Zealand and Vine)],

Leafy Petioles Crop Group Subgroup 4B [Cardoon, Celery, Celery (Chinese), Celtuce, Fennel (Florence), Rhubarb, Swiss Chard],

Head and Stem Brassica Crop Group Subgroup 5A [Broccoli, Broccoli (Chinese), Brussels Sprouts, Cabbage, Cabbage (Chinese (napa) and Chinese Mustard), Cauliflower, Cavalo Broccolo, Kohlrabi], Leafy Brassica Greens Crop Group Subgroup 5B [Broccoli Raab, Cabbage (Bok Choy), Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens].

Legume Vegetables Crop Group 6 (except soybeans) [Bean (Lupinus spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (Phaseolus spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean), Bean (Vigna spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean), Broad bean (flava bean) (Vicia faba), Chickpea (garbanzo bean) (Cicer arietinum), Guar (Cyamopsis tetragonoloba), Jackbean (Canavalia ensiformis), Lablab bean (hyacinth bean) (Lablab purpureus), Lentil (Lens esculenta), Pea (Pisum spp.) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), Pigeon pea (Cajanus cajan), and Sword bean (Canavalia gladiatā),

Fruiting Vegetables (Except Cucurbits) Crop Group 8 [Eggplant, Groundcherry, Pepino, Pepper including bell pepper, chili pepper, cooking pepper, pimento and sweet pepper, Tomatillo, and Tomato], Cucurbit Vegetables Crop Group Melon Subgroup 9A [Citron Melon, Muskmelon, and Watermelon],

Cucurbit Vegetable Crop Group Squash/Cucumber Subgroup 9B [Chayote (fruit), Chinese Waxgourd, Cucumber, Gherkin, Gourd (Edible), Momordica spp., Pumpkin, Squash (Summer and Winter)],

Berry and Small Fruit Crop Group Caneberry Subgroup 13-07A* [Blackberry, Loganberry, Raspberry (Red and Black), Wild Raspberry, cultivars, varieties and/or hybrids of these],

Berry and Small Fruit Crop Group Bushberry Subgroup 13-078* [Aronia Berry, Blueberry (Highbush and Lowbush), Currant (Black, Buffalo, and Red), Guava (Chilean), Elderberry, European Barberry, Gooseberry, Cranberry (Highbush), Honeysuckle (Edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Native Currant, Salal, Sea Buckthorn, Cultivars, varieties and/or hybrids of these], Herbs and Spice Crop Group, Herbs Subgroup 19A [Angelica, Balm, Basil, Borage, Burnet, Chammille, Catnir, Chervil (Dried), Chive, Chive (Chinese and Clary), Coriander (Leaf), Costmary, Cilantro (Leaf), Curry, Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (Leaf), Marigold, Marigram (Origanum spp.), Nasturtium, Parsley (Dried), Pennyroyal, Rosemary, Rue, Sage, Savory (Summer and Winter). Sweet Bay, Tansu, Tarragon, Thyme, Wintergreen, Woodruff, and Wormwoodl.

- * Not registered for use in California.
- ** For use on clover grown in the states of Idaho, Oregon and Washington only.
- *** SHADOW 3EC HERBICIDE is for use to control existing stands of field corn.

PRECAUTIONS

- Always read and follow label directions of all products. Always follow the most restrictive label language for all products whether used alone or in a tank mix. The most restrictive label language of any product used applies in tank mixtures, including all crop rotational and other crop restrictions.
- This product is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.
- While all the vegetable crops on this label have been tested and are tolerant to SHADOW 3EC HERBICIDE, not all specialty varieties of these crops have been tested. Before
 applying SHADOW 3EC HERBICIDE to specialty varieties of vegetable crops on this label, it is advised that crop tolerance be investigated first using a small section of the field. It
 is possible that injury symptoms can occur. Symptoms may appear as leaf speckling or stunting.
- Grass crops such as corn, rice, sorghum, small grains, or turf, etc. are highly sensitive to SHADOW 3EC HERBICIDE.
- Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (disking, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, such as continuous no-tiliage in which the perennial grass rhizomes or stolons are not cut up, result in a very staggered, non-uniform weed emergence.
 No fewer than two (2) SHADOW 3EC HERBICIDE applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions, due to this non-uniform weed emergence.
- Tank mixes of SHADOW 3EC HERBICIDE and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of this product may be necessary.

RESTRICTIONS

- . Do not plant any crop for 30 days after application unless SHADOW 3EC HERBICIDE is registered for use on that crop.
- Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- Application in Nassau and Suffolk Counties of New York State is restricted to no more than 10.67 fl oz of SHADOW 3EC HERBICIDE (0.25 lb ai) per acre per season.
- Do not apply under conditions of stress. Applying SHADOW 3EC HERBICIDE under conditions that do not promote active grass growth will reduce herbicide effectiveness. These
 conditions include, drought, excessive water, low humidity and extremes in temperature, and grasses either partially controlled or stunted from prior pesticide applications.
 Grasses under these kinds of stressful conditions will not absorb and translocate SHADOW 3EC HERBICIDE effectively, and will be less susceptible to herbicide activity.
- Do not apply a postemergence broadleaf herbicide within one day following application of SHADOW 3EC HERBICIDE or reduced grass control may result.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank ½ to % of desired level with clean water. While agitating, add the correct amount of **SHADOW 3EC HERBICIDE**, making sure that agitation makes a rippling or rolling action on the water surface.
- 2. When tank mixing this product with other labeled herbicides, add water-soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
- 3. Add any required adjuvants (crop oil concentrate, nonionic surfactant and/or nitrogen solution).
- 4. Fill spray tank to desired level with water.

Continue agitation until all spray solution has been applied.

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

APPLICATION INFORMATION

Make applications of **SHADOW 3EC HERBICIDE** postemergence to actively growing grasses according to the rate table recommendations. Applications to grass plants exceeding recommended growth stages could result in unsatisfactory control.

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

Cultivation of treated grasses 7 days prior to or within 7 days after application of this product could reduce weed control.

GROUND APPLICATION

To ensure complete coverage, it is essential to use sufficient spray volumes and pressure. Use a minimum of 5 gallons and a maximum of 40 gallons of spray solution per acre. Ten gallons per acre can improve grass control under certain conditions such as: ultra narrow row cotton, narrow row soybeans, broadleaf herbicide tank mixes, perennial grasses, volunteer corn, drought or stress conditions, heavy grass pressure or when grasses are at or near maximum height. Set spray pressures to reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Spot Treatment

Mix 1/3% (0.44 oz to 0.85 oz per gal) product when using hand sprayers or high volume sprayers utilizing hand guns. While not allowing runoff of spray solution, apply to wet vegetation.

NOTE: If SHADOW 3EC HERBICIDE is applied as a spot treatment, do not exceed the maximum rate allowed on a "per acre" basis or crop injury could occur. Care must be taken when SHADOW 3EC HERBICIDE is applied as a spot treatment to onions, garlic, shallots, or non-bearing food crops or crop injury could occur.

AERIAL APPLICATION

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

For onions (dry bulbs), garlic or shallots (dry bulbs): do not exceed 5.33 fl oz/A in a single application when applying by air. Do not exceed 2 applications per season on garlic and shallot. In California do not exceed 2 applications per season on onion. Apply a minimum of 20 gallons of spray solution per acre when applying by air to onions, garlic or shallots in the state of California. In states other than California, make air applications to onions, garlic, and shallots in a minimum of 10 gallons per acre.

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

CHEMIGATION (SPRINKLER IRRIGATION APPLICATION)

ONIONS (dry bulbs) and GARLIC ONLY

May be applied to onions and garlic by sprinkler irrigation systems.

Only apply to onions and garlic using chemigation.

Do not apply by chemigation to any other crop other than Onions and Garlic.

Do not apply this product by chemigation in the states of Idaho, Montana, Oregon, and Washington,

Make application of **SHADOW 3EC HERBICIDE** 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 **SHADOW 3EC HERBICIDE** 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.

Do not apply SHADOW 3EC HERBICIDE through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regular serves an average of at least 25 individuals daily at least 60 days out of the year.

Precautions

- Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move system(s). Do not apply this
 product through any other type of irrigation system.
- · Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- . If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
- A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

RESTRICTIONS

- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices
 for public water systems are in place.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the
 system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- . The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide
 distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible
 with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRAY DRIFT MANAGEMENT

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

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- . Nozzles must always point backward, parallel with the air stream and never be pointed downwards more than 45 degrees.

When applying **SHADOW 3EC HERBICIDE** in a tank mix with other herbicides (e.g. 2,4-D, bromoxynil, MCPA, and sulfonylurea herbicides) in eastern Washington, observe all applicable Washington State Department of Agriculture herbicide rules.

The applicator must be familiar with and take into account the information covered in the SPRAY DRIFT MANAGEMENT section.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind**, **Temperature and Humidity, and Temperature Inversions**).

Controlling Droplet Size

- Volume—Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure—Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles—Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation—Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice.
 Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type—Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Lenath

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications must not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications must not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue in the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates nodo vertical air mixing.

USE RATES AND APPLICATION PROCEDURES

ADJUVANT OR CROP OIL CONCENTRATE RECOMMENDATIONS

SHADOW 3EC HERBICIDE does not contain an adjuvant system. For its activation adjuvants are required for control. Crop oil concentrate (COC) provides the most consistent activation of SHADOW 3EC HERBICIDE. Crop oil concentrates can cause crop injury with certain tank mix partners or on sensitive crops. Under these circumstances non-ionic surfactants (NIS) can be used in replace of crop oil concentrate. Reduced weed control may result from use of non-ionic surfactant. Under drought conditions methylated seed oils can increase crop injury potential and care should be taken when considering its use. Ammonium sulfate (AMS) or urea-ammonium nitrate (UAN) can improve control of hard to control grasses and help overcome potential antagonism from tank mix partners. The use of AMS or UAN is only allowed on specified crops. Follow the SHADOW 3EC HERBICIDE USE RATES / RESTRICTIONS / LIMITATIONS table for guidelines. Follow the table below for adjuvant use rates:

	Specified Adjuvant use with SHADOW 3EC HERBICIDE					
Adjuvant	Adjuvant Use Rate	Comment				
COC (Crop Oil Concentrate) OR	1% v/v or 1 Qt/A	Use with SHADOW 3EC HERBICIDE in most use patterns other than the listed directly below				
MSO (Methylated Seed Oil) OR	1% v/v or 1.5 pt/A	Use for improved control under drought conditions or other weed stress conditions. MSO can increase injury with some tank mix partners				
NIS (Non-ionic surfactant)	0.25-0.5% v/v	Use when tank mix partners or crop sensitivity limit the use of oil adjuvants. Grass control from SHADOW 3EC HERBICIDE will be reduced				
Nitrogen Fertilizer Adjuvant ¹	Adjuvant Use Rate	Comment				
Ammonium Sulfate (AMS) OR	1–4 lb/A or 8.5–17 lb/100 gallons of spray solution	Use for improved control of difficult grass species. AMS is not to be used on all crops				
28-32% Urea Ammonium Nitrate (UAN)	1-2 Qt/A	Use when a source of AMS is not available.				

1 The addition of liquid fertilizer is not recommended for the following crops:

Artichoke, Asparagus, Berry and small fruit crops; Bushberry, Caneberry, Carrot, Cranberry, Cucurbits, Fruiting Vegetables (except Tomato), Garden Beet, Garlic, Head & Stem Brassica Vegetables, Herbs, Hops, Leaf Petioles, Leafy Brassica Greens, Leafy Greens, Leek, Mustard Seed, Non-Bearing Food Crops, Onion (Dry Bulb), Peach, Radish, Root Vegetables, Sesame, Shallots (Dry Bulb), Strawberry, Tomato, and Root and Tuber Leaves.

The use of adjuvants can increase crop injury of tank mix partners. Consult the tank mix partner label for further guidance.

When an adjuvant is to be used with this product, Arysta LifeScience North America, LLC recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

APPLICATION RATES BY CROP

SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS					
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS	
Alfalfa Established including: Sainfoin Holy Clover Birdsfoot trefoil Alfalfa Seedling	15 days before grazing, feed- ing or harvesting (cutting) for forage or hay. Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5-4.0 lb/A or 8.5-17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. This product can be applied to seedling or established alfalfa grown for seed.	

N/A—Not Applicable

A Refer to Crops and Uses section of this label.

* Not registered for use in California.

		1	E RATES/RESTRICTIONS/LIMITATIONS	
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- Monium Sulfate (AMS)	SPECIAL USE INSTRUCTIONS
Artichoke* (Globe)	5 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Asparagus	1 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Beans ^(A) , Dry Shelled including: Bean (Lupinus spp.) Grain Sweet White White Sweet Bean (Phaseolus spp.) Field Kidney Lima (dry) Navy Pinto Runner Snap Tepary Wax	30 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Beans ^(A) , Dry Shelled including: Bean (Vigna spp.) Adzuki Asparagus Blackeyed Pea Catjang Chinese longbean Cowpea Crowder Pea Moth Mung Rice Southern Pea Urd Yardlong Broad (dry) Chickpea (garbanzo) Guar Jackbean Labilab	30 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.

N/A—Not Applicable

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	SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS				
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS	
Bean ^(A) , Succulent including: Bean (<i>Phaseolus</i> spp.) Broad Bean (succulent) Lima (dry) Bean (<i>Vigna</i> spp.) Black-eyed Pea Cowpea Southern Pea	21 day PHI	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: AMS 2.5-4 lb/A or 8.5-17.0 lb/100 gallons of spray solution	Do not apply more than one (1) application per acre per season.	
Beet, Garden	30 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	
Beet, Sugar	40 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	
Berry and Small Fruit Crops; Bushberry* including (for Cranberry refer to the Cranberry refer to the Cranberry specific crop informa- tion): Aronia Berry Blueberry (Highbush) Guava, Chilean Currant, Black Currant, Buffalo Currant, Red Elderberry European Barberry Gooseberry Honeysuckle Edible Huckleberry Jostaberry Juneberry Lingonberry Salal Sea Buckthorn	14 days PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not apply for Bushberry grown for root stock. Direct the application towards the base of the plant to avoid contact with leaf tissue. Contact with the upper portions of the plant can result in crop injury.	

N/A—Not Applicable

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	SHADOV	V 3EC HERBICIDE US	E RATES/RESTRICTIONS/LIMITATIONS	
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS
Caneberry * including: Blackberry Loganberry Raspberry Black Raspberry Red Raspberry	7 days Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not apply for Caneberry grown for root stock Direct the application towards the base of the plant to avoid contact with leaf tissue. Contact with the upper portions of the plant can result in crop injury.
Canola*	70 day PHI	2.67–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply after crop has begun bolting. Do not exceed 5.33 fl oz/A in a season. Crop injury could occur when this product is applied during the bloom period.
Carrot	30 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Clover	15 day PHI before grazing, feeding, or harvesting (cutting) for forage or hay. Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not exceed 10.67 fl oz/A in a season. For use on clover grown in the states of Idaho, Oregon and Washington only.
Cotton	60 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not graze treated fields or feed treated forage or hay to livestock.
Cranberry	30 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not apply between the "hook" stage and full fruit set.

N/A—Not Applicable

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	SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS				
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS	
Cucurbits ^(A) , including: Chayote (fruit) Chinese Wax Gourd Citron Melon Cucumber Gherkin Gourd, Edible Muskmelons (all) including: Cantaloupes Honeydew Melon Pumpkin Squash (all) Watermelon	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	
Fallow Land (and other non-producing agricul- tural areas) Non-Crop or Non-Planted areas	N/A Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not plant any crop for 30 days following application unless clethodim is registered for use on that crop. See NON-CROP OR NON-PLANTED AREAS section for additional information.	
Flax*	60 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 10.67 fl oz/A per season. Make application prior to bloom. If applied during bloom, crop injury could occur.	
Fruiting Vegetables ^(A) (except Cucurbits) (for Tomatoes refer to Tomato specific crop information) including: Eggplant Groundcherry Pepino Peppers (all) Tomatillo	20 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	

N/A—Not Applicable

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	SHAD0	W 3EC HERBICIDE US	E RATES/RESTRICTIONS/LIMITATIONS	
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS
Garlic Bulb Great head (elephant) Leek Onions (Dry Bulbs Only) Shallots (Dry Bulbs Only)	45 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz For ground applica- tion do not exceed 5.33 fl oz/A in a single application to garlic or shallots. For aerial applica- tion do not exceed 5.33 fl oz/A in a single application to onion garlic and shallots.	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	California only: do not apply until the crop has at least two full leaves. Minimum 20 gals/A spray volume by ground in entire U.S. Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. See SPOT APPLICATION and AERIAL APPLICATION sections for additional information and restrictions.
Leek Onion (Green only) Shallot (Green only)	14 day PHI Maintain a 14 day interval for repeat applications	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application.
Head & Stem Brassica Vegetables ^(A) , including: Broccoli (Chinese) Brussels Sprouts Cabbage (Chinese and Chinese Mustard) Cauliflower Cavalo Broccolo Kohlrabi	30 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.

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	SHADOV	V 3EC HERBICIDE US	E RATES/RESTRICTIONS/LIMITATIONS	
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS
Herbs ^(A) including: Angelica Balm Basil Borage Burnet Chamomile Catnip Chervil, (dried) Chive Chinese Clary Coriander (leaf) Costmary Cilantro (leaf) Curry (leaf) Dill (dillweed) Horehound Hyssop Lavender Lemongrass Lovage (leaf) Marjoram (Origanum spp.) Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Savory: Summer and Winter Sweet Bay Tansy Tarragon Thyme Wintergreen Woodruff	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. This product has not been tested on all herbs, and herb varieties. It is the respon sibility of the user to test this product on a small portion of the crop to be treated before treating the entire field. Verify crop tolerance to this product on a small area of the herb crop, at the desire rate. If no crop response is evident seven (7) days after treatment, this product may be used on the entire field at the same rate tested and with the same crop oil used in the tolerance test.
Wormwood				
Hops	21 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Leaf Petioles ^(A) including: Cardoon Celery Chinese Celery Celtuce Fennel (Florence) Rhubarb Swiss chard	30 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.

N/A—Not Applicable
A Refer to Crops and Uses section of this label.

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	SHADOV	V 3EC HERBICIDE US	E RATES/RESTRICTIONS/LIMITATIONS	
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS
Leafy Brassica Greens ^(A) , including: Broccoli Raab Cabbage, Chinese (Bok choy) Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A pe application. Do not apply more than 21.33 fl oz/A per season.
Leafy Greens ^(A) including: Amaranth Chinese Spinach Leafy Amaranth Tampala Arugula (roquette) Chervil Chrysanthemum, Edible-leaved Garlan Corn Salad Cress Garden Upland Dandelion Dock (sorrel) Endive (escarole) Lettuce (head and leaf) Orach Parsley Purslane Garden Winter Badicchio (red chicory) Spinach New Zealand	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.

N/A—Not Applicable

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	SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS				
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS	
Legume Vegetables, Ed- ible Podded(**) including: Bean (Phaseolus spp.) Runner Snap Wax Bean (Vigna spp.) Asparagus Chinese Longbean Moth Yardlong Jackbean Pea (Pisum spp.) Dwarf Edible-pod Snow Sugar Snap Pigeon Sword Bean	21 day PHI	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 5.33 fl oz/A in a single application. Do not apply more than one (1) application per acre per season. For peas apply before bloom, but no later than 21 days before harvest.	
Lentils	30 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	
Mint	21 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	
Mustard Seed*	75 day PHI Maintain a 14 day interval for repeat applications.	2.67–4.0 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 10.67 fl oz in a season. Do not apply after crop has begun bolting. If applied during the bloom period, crop injury could occur.	
Non-Bearing Food Crops	N/A Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: not recommended due to injury to flowers and foliage. Use a non-ionic surfactant (NIS) at 0.25% v/v	Sugar Maples cannot be tapped for syrup within one year of application. Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. See SPOT APPLICATION and AERIAL APPLICATION sections for additional information and restrictions. See NON-BEARING FOOD CROPS section for specific use sites.	

N/A—Not Applicable

A Refer to Crops and Uses section of this label.

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CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL	USE RATES PER	CROP OIL CONCENTRATE (COC) and AM-	SPECIAL USE
	(PHI)	ACRE ALLOWED FOR EACH CROP	MONIUM SULFATE (AMS)	INSTRUCTIONS
ncluding: Pea (<i>Pisum</i> spp.)	30 day PHI For peas apply before bloom, but no later than 30 days be- fore harvest.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5—4.0 lb/A or 8.5—17.0 lb/100 gallons of spray solution	Do not apply more than 5.33 fl oz/A in a single application. Do not apply more than one (1) application per acre per season. Applications of this product to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.
ncluding: Pea (<i>Pisum</i> spp.)	21 day PHI For peas apply before bloom, but no later than 21 days be- fore harvest.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5—4.0 lb/A or 8.5—17.0 lb/100 gallons of spray solution.	Do not apply more than 5.33 fl oz/A in a single application. Do not apply more than one (1) application per acre per season. Applications of this product to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.
	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not apply for Peach grown for root stock Direct the application towards the base of the plant to avoid contact with leaf tissue. Contact with the upper portions of the plant can result in crop injury.
perennial)	40 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5—4.0 lb/A or 8.5—17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. For Florida Perennial peanuts do not apply more than 21.33 fl oz/A per year.
	30 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Radish (Oriental)	15 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 10.67 fl oz/A per season.

	APPLICATION TIMING AND	USE RATES PER	E RATES/RESTRICTIONS/LIMITATIONS	
CROPS	PRE-HARVEST INTERVAL (PHI)	ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS
Root Vegetables ^(A) (for Carrot and Radish, refer to Carrot and Radish specific crop information), including: Burdock (edible) Celeriac Chervil (Turnip-rooted) Chicory Ginseng Horseradish Parsley (Turnip-rooted) Parsnip Rutabaga Salsify Black Spanish Skirret Turnip	30 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Safflower	70 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 10.67 fl oz/A per season.
Sesame	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not apply during flowering.
Soybean	60 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season. Do not graze treated fields or feed treated forage or hay to livestock.
Strawberry	4 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.3 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
Sunflower	70 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5—4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.
N/A—Not Applicable A Refer to Crops and Uses s Not registered for use in C				

	SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS					
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS		
Sweet Potato, Yam and other tuberous and corm vegetables/a/ (for Potato, refer to Potato specific crop information), including: Arracacha Arrowroot Artichoke* Chinese Jerusalem Canna Cassava Bitter Sweet Chayote Chufa Dasheen Ginger Leren Sweet Potato Tanier Tumeric Turnip Yam	30 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: 2.5–4.0 lb/A or 8.5–17.0 lb/100 gallons of spray solution	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.		
Tomato	20 day PHI Maintain a 14 day interval for repeat applications.	4–10.67 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 10.67 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.		

N/A—Not Applicable

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SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS					
CROPS	APPLICATION TIMING AND PRE-HARVEST INTERVAL (PHI)	USE RATES PER ACRE ALLOWED FOR EACH CROP	CROP OIL CONCENTRATE (COC) and AM- MONIUM SULFATE (AMS)	SPECIAL USE INSTRUCTIONS	
Root and Tuber Leaves (for Beets, Carrots, and Radish, refer to Beets, Carrot and Radish spe- cific crop information) Burdock (edible) Cassava; bitter and sweet Celeriac Chervil Chicory Dasheen Parsnip Rutabaga Salsify (Black) Sweet potato Tanier Turnip Yam (True)	14 day PHI Maintain a 14 day interval for repeat applications.	4–5.33 fl oz	COC: 1% v/v or 1 qt/A by ground. 1% v/v or 1 pt/A by air. AMS: None	Do not apply more than 5.33 fl oz/A per application. Do not apply more than 21.33 fl oz/A per season.	

N/A-Not Applicable

ATTENTION

Plant tolerance to **SHADOW 3EC HERBICIDE** 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 **SHADOW 3EC HERBICIDE** has investigated the safety factor to plants not listed on this label.

NON-BEARING FOOD CROPS

DO NOT APPLY SHADOW 3EC HERBICIDE TO NON-BEARING FRUIT OR NUT CROPS GROWN FOR ROOT STOCK.

If **SHADOW 3EC HERBICIDE** is improperly applied, crop injury to non-bearing fruit and nut crops can occur. Do not apply **SHADOW 3EC HERBICIDE** directly over the top of these plant types. Rather, direct the spray at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants, which will not bear fruit or nuts for at least one year following an application of SHADOW 3EC HERBICIDE.

NON-BEARING FOOD CROPS

COMMON NAME	SCIENTIFIC NAME
Apples	Malus spp.
Berries	Vaccinium spp.
	Rubus spp.
Cherry, sweet	Prunus avium
Citrus fruit	Citrus spp.
Grapes	Vitis spp.
Olives	Olea spp.
Peach	Prunus persica
Pears	Pyrus communis
Prunes	Prunus spp.
Stone fruit	Prunus spp.
Strawberries	Fragaria spp.
Tree nuts	

A Refer to Crops and Uses section of this label.

^{*} Not registered for use in California.

COMMON NAME	SCIENTIFIC NAME
Almond	Prunus tribola
Filbert	Corylus maxima
Pecan	Carya illinoinensis
Pistachio	Pistacia vera
Walnut	Juglans spp.

NON-CROP OR NON-PLANTED AREAS

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

DIRECTIONS FOR ANNUAL GRASSES

(EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)

Make application to actively growing grasses at recommended weed heights.

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

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

Grass Species	Scientific Name	Weed Height (inches)	Rate ⁽³⁾	FL OZ/A
Barnyardgrass	Echinochloa crus-galli	2 to 8	4	5.33
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	4	5.33
Brome				
California	Bromus carinatus	2 to 6	4	5.33
Cheat	Bromus secalinus	2 to 6	4	5.33
Downy	Bromus tectorum	2 to 6	4	5.33
Ripgut	Bromus diandrus	2 to 6	4	5.33
Canarygrass	Phalaris canariensis	1 to 4	4	5.33
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	4	5.33
Large	Digitaria sanguinalis	2 to 6**	4	5.33
Smooth	Digitaria ischaemum	2 to 6**	4	5.33
Southern	Digitaria ciliaris	2 to 6**	4	5.33
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	4	5.33
Fall Panicum	Panicum dichotomiflorum	2 to 8	4	5.33
Field Sandbur	Cenchrus incertus	2 to 6	4	5.33
Foxtail				
Giant	Setaria faberi	2 to 12	4	5.33
Green	Setaria viridis	2 to 8	4	5.33
Yellow	Setaria glauc	2 to 8	4	5.33
Goosegrass	Eleusine indica	2 to 6**	4	5.33
Itchgrass	Rottboellia cochinchinensis	2 to 6	4	5.33
Junglerice	Echinochloa colona	2 to 6	4	5.33
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	4	5.33
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	4	5.33
Red Rice	Oryza sativa	1 to 3	4	5.33
Ryegrass				
Hardy	Lolium remotum	2 to 6	4	5.33
Italian	Lolium multiflorum	2 to 6	4	5.33
Seedling Johnsongrass	Sorghum halepense	4 to 10	4	5.33
Shattercane	Sorghum bicolor	6 to 18	4	5.33
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	4	5.33

Grass Species	Scientific Name	Weed Height (inches)	Rate ⁽³⁾	FL OZ/A
Sprangle top				
Amazon	Leptochloa panicoides	2 to 6	4	5.33
Bearded	Leptochloa fascicularis	2 to 6	4	5.33
Mexican	Leptochloa uninervia	2 to 6	4	5.33
Red	Leptochloa filiformis	2 to 6	4	5.33
Texas Panicum	Panicum texanum	2 to 6	4	5.33
Volunteer Cereals ⁽²⁾				
Barley	Hordeum vulgare	2 to 6	4	5.33
Oats	Avena sativa	2 to 6	4	5.33
Rye	Secale cereale	2 to 6	4	5.33
Wheat	Triticum aestivum	2 to 6	4	5.33
Volunteer Corn ⁽¹⁾	Zea mays	up to 12	2.67	4
Volunteer Corn ⁽¹⁾	Zea mays	up to 24	4	5.33
Volunteer Corn ⁽¹⁾	Zea mays	up to 36	5.33	6.67
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	4	5.33
Wild Oats	Avena fatua	2 to 6	4	5.33
Wild Proso Millet	Panicum miliaceum	2 to 10	4	5.33
Witchgrass	Panicum capillare	2 to 8	4	5.33
Woolly Cupgrass	Eriochloa villosa	2 to 8	4	5.33

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

³ Where experience has shown that higher rates are needed for satisfactory control of annual grasses, rates higher than 5.33 fl oz/A may be applied in certain geographic areas, cropping situations, or environmental conditions. In these situations, rates from 5.33 to 10.67 fl oz/A can be applied. Follow the use rate restrictions in that SHADOW 3EC HERBICIDE USE RATES/RESTRICTIONS/LIMITATIONS table before applying higher rates.

DIRECTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT WITH SHADOW 3EC HERBICIDE					
GRASS SPECIES WEED STAGE RATE FL 0Z/A					
Annual & perennial Grasses Listed in Grass Table	See Table	6.67	10.6		

Mowing: Achieving the best control of annual grasses can be made by applying SHADOW 3EC HERBICIDE before grass weeds are mowed. Once grass is mowed it becomes tougher to control, as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. Even though these grasses may be an annual grass, they may require repeated application of SHADOW 3EC HERBICIDE for partial or complete control.

Irrigated Alfalfa and Mint: Irrigation practices can be very critical to the successful use of SHADOW 3EC HERBICIDE in established alfalfa and mint and may be necessary to initiate active growth of the weeds prior to application. Generally applications 2 to 4 days after an irrigation are most effective. Irrigation made shortly after application (2 days) can be effective, but more consistent grass control occurs when the irrigation is made before the application.

Aerial Application: When applying by air in established alfalfa and mint, apply SHADOW 3EC HERBICIDE in a minimum of 10 GPA.

Annual Grass Control: Make application at the grass sizes indicated in the Recommendation for Annual Grass Table and rates indicate. If a grass has been cut, make application after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Make application before the alfalfa/mint canopy covers the grasses and interfers 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 SHADOW 3EC HERBICIDE may vary from region to region. In addition, some annuals germinate over an extended period of time and because control of small grasses is desired, application after each weed flush may be required. As a general rule spray spring and summer-germinating grasses as early in the season as possible, after initial green-up. Spray fall-germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth, or the onset of flowering.

Perennial Grass Control: SHADOW 3EC HERBICIDE 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.

^{**} Length of lateral growth.

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

² The minimum **SHADOW 3EC HERBICIDE** use rate for control when a cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment is 5.33 fl oz/A.

DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH SHADOW 3EC HERBICIDE					
GRASS SPECIES WEED STAGE RATE FL OZ/A					
Annual Bluegrass (Poa annua)	1 to 4-leaf	4 *	10.67**		

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.

* Use a minimum of 6.67 fl oz/A to control annual bluegrass in seedling and established alfalfa and mint.

**See CROP SPECIFIC USE DIRECTIONS, for maximum application rates and restrictions.

DIRECTIONS FOR REDUCED RATE USE IN CANOLA, DRY SHELLED BEAN & PEA (INCLUDING SOYBEAN), EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT BEAN & PEA AND SUGAR BEET

DIRECTIONS FOR SMALL ANNUAL GRASSES

(REDUCED RATE DIRECTIONS NOT FOR USE IN CALIFORNIA)

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

ANNUAL GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	RATE FL OZ/A
Barnyardgrass	Echinochloa crus-galli	1 to 4	2.66
Broadleaf Signalgrass	Brachiaria platyphylla	1 to 4	3.33
Crabgrass			
Large	Digitaria sanguinalis	1 to 3*	2.66
Large	Digitaria sanguinalis	1 to 4*	3.33
Smooth	Digitaria ischaemum	1 to 3*	2.66
Smooth	Digitaria ischaemum	1 to 4*	3.33
Southern	Digitaria ciliaris	1 to 4*	3.33
Fall Panicum	Panicum dichotomiflorum	1 to 4	2.66
Foxtail			
Giant	Setaria faberi	1 to 4	2.66
Green	Setaria viridis	1 to 4	2.66
Millet	Setaria italica	1 to 4	3.33
Yellow	Setaria glauca	1 to 4	2.66
Seedling Johnsongrass	Sorghum halepense	1 to 6	3.33
Shattercane	Sorghum bicolor	4 to 10	2.66
Texas Panicum	Panicum texanum	1 to 4	3.33
Volunteer Cereals		·	
Barley	Hordeum vulgare	1 to 4	3.33
Oats	Avena sativa	1 to 4	3.33
Wheat	Triticum aestivum	1 to 4	3.33
Volunteer Corn	Zea Mays	4 to 12	2.66
Wild Proso Millet	Panicum miliaceum	1 to 6	2.66
Wild Oats	Avena fatua	1 to 4	3.33

DIRECTIONS FOR PERFNNIAL GRASSES

Make application only to actively growing grasses at the listed weed heights. Make application when the first grass weed species in a mixed grass weed population reaches the
listed growth stage for treatment.

PERENNIAL GRASS SPECIES(1)	WEED HEIGHT (inches)	RATE	(2) FL OZ/A
Bermudagrass (Cynodon dactylon)	•		
First Application	3 (or up to 6 runners)	5.33	10.67
Repeat Application(s) (if regrowth occurs)	3 (or up to 6 runners)	5.33	10.67
Fescue, Tall (Festuca arundinacea)			
First Application	4 to 8	5.33	10.67
Repeat Application(s) if regrowth occurs)	4 to 8	5.33	10.67
Foxtail Barley (Hordeum jubatum)			
First Application	2 to 6	5.33	10.67
Repeat Application(s) (if regrowth occurs)	2 to 6	5.33	10.67
Orchardgrass (Dactylis glomerata)			
First Application	4 to 8	5.33	10.67
Repeat Application(s) (if regrowth occurs)	4 to 8	5.33	10.67
Quackgrass (Elytrigia repens)			
First Application	4 to 12	5.33	10.67
Repeat Application(s) (if regrowth occurs)	4 to 12	5.33	10.67
Rhizome Johnsongrass (Sorghum halepense)			
First Application	12 to 24	5.33	10.67
Repeat Application(s) (if regrowth occurs)	6 to 18	4	5.33
Wirestem Muhly (<i>Muhlenbergia frondosa</i>)			
First Application	4 to 8	5.33	10.67
Repeat Application(s) (if regrowth occurs)	4 to 8	5.33	10.67
Perennial Bluegrass			
Roughstalk (Poa trivialis)			
Kentucky (<i>Poa prantensis</i>)			
First Application	2 to 4	5.33	10.67
Repeat Application(s) (if regrowth occurs)	2 to 4	5.33	10.67
Bentgrass (Agrostis spp.)			
First Application	2 to 4		10.67
Repeat Application(s) (if regrowth occurs)	2 to 4		10.67
1 Control of parappial grassas such as guackgrass, parappial bluggrass and hantgrass	with this product may be enhanced by adding AMS		

Control of perennial grasses such as quackgrass, perennial bluegrass and bentgrass with this product may be enhanced by adding AMS.

TANK MIXES

INFORMATION

The labels for each of the herbicides recommended for tank mixing with **SHADOW 3EC HERBICIDE** are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than **SHADOW 3EC HERBICIDE** in certain considerations. Those concerns may include, but are not limited to:

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

Use the higher rate under heavy grass pressure and/or when grasses are at maximum height. Follow the use rate restrictions in that **SHADOW 3EC HERBICIDE USE RATES/ RESTRICTIONS/LIMITATIONS** table before applying higher rates.

ALWAYS FOLLOW THE MOST RESTRICTIVE LARFLING OF ANY PRODUCT LISED IN A TANK MIX.

DIRECTIONS FOR TANK MIX APPLICATION OF SHADOW 3EC HERBICIDE AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- · Make application only to actively growing grass and broadleaf weeds at listed height or growth stage listed on each label.
- Make application when the first grass or broadleaf weed species in a mixed population reaches the listed height or growth stage for treatment.
- Make application under favorable soil moisture and humidity that exist a few days after rainfall or within seven (7) days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate directions for each specific tank mix combination.
- Tank mix application can sometimes result in reduced grass control and possible increases in crop injury as compared to either product used alone. If regrowth occurs or an
 additional flush of new grass emerges, apply a second application of SHADOW 3EC HERBICIDE as specified in the respective size and rate tables.
- . Do not tank mix SHADOW 3EC HERBICIDE when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

ANTAGONISM INFORMATION

Tank mixes of SHADOW 3EC HERBICIDE with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species, which would have otherwise been controlled by SHADOW 3EC HERBICIDE alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA		
SHADOW 3EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA (See crop specific tables for application directions)		
TANK MIX PRODUCT ^{1,2}	SHADOW 3EC HERBICIDE APPLICATION RATES/A	
TANK WIX PRODUCT***	ANNUAL GRASSES	PERENNIAL GRASSES
GLYPHOSATE (for use on Roundup Ready Alfalfa only)		
2,4-DB ³		
PURSUIT® DG4 or PURSUIT4	6.67–10.67 fl oz	6.67-10.67 fl oz
RAPTOR®		
BUCTBIL® 2L 5,6]	

- 1 If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of SHADOW 3EC HERBICIDE alone—without a tank mix herbicide, according to the appropriate size and rate directions.
- ² Follow the label of the broadleaf tank mix partner for specified rates and adjuvant use.
- 3 SHADOW 3EC HERBICIDE plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa will generally outgrow this temporary crop injury within a few weeks. Do not apply SHADOW 3EC HERBICIDE 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.
- 4 Before using this tank mix, read and understand the PURSUIT or PURSUIT DG labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. DO NOT feed, graze or harvest alfalfa for 30 days following an application of PURSUIT to alfalfa.
- States of Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming and the western halves of Kansas, Nebraska, North Dakota, South Dakota: The tank mix of SHADOW 3EC HERBICIDE plus BUCTRIL must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliate. Unacceptable crop injury can occur to alfalfa seedlings less than the 2 trifoliate leaf stage. BUCTRIL plus SHADOW 3EC HERBICIDE applications made when temperatures are expected to exceed 80°F and days following application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. Unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage growth, when alfalfa stand is uneven and conditions favor leaf burn. When applications of SHADOW 3EC HERBICIDE plus BUCTRIL are made when temperatures are expected to exceed 70°F and three days following such application can result in unacceptable crop injury. Crop leaf burn can occur following SHADOW 3EC HERBICIDE plus BUCTRIL applications. Warm, humid conditions may enhance leaf burn. However, new crop orowth will not be affected.
- 6 Do not make application when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.

CANOLA

REDUCED RATE SHADOW 3EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES

See crop specific tables for application directions

TANK MIX PRODUCT ¹	SHADOW 3EC ² HERBICID	E APPLICATION RATES/A
TANK WIX PRODUCT	ANNUAL GRASSES ⁴	PERENNIAL GRASSES
Ignite® 280 SL Herbicide ³	2.66-4 fl oz	NA

- ¹ Follow the label of the broadleaf tank mix partner for specified rates and adjuvant use.
- Do not apply SHADOW 3EC HERBICIDE tank mix during or after bolting or flowering or crop injury could occur.
- For use only on LibertyLink® canola.
- 4 Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

COTTON

SHADOW 3EC HERRICIDE TANK MIXED WITH CORRA® AND MSMA APPLIED POST DIRECTED

CIMPON OLO NELLONDE INTINIONE INTINI			
TANK MIX PRODUCT ¹ SHADOW 3EC HERBICIDI		APPLICATION RATES/A ²	COMMENTS
IANK WIX PRODUCT	ANNUAL GRASSES ³	PERENNIAL GRASSES ³	COMMENTS
COBRA + MSMA (4.0 lbs/gal)			Reduce broadcast rate in proportion to the band area
or	4–5.33 fl oz	5.33-10.67 fl oz	actually treated.
MSMA (6.6 lbs/gal)			

- Follow the label of the broadleaf tank mix partner for specified rates and adjuvant use.
- If grass regrowth occurs or an additional flush of new grass emerges, apply a second application of SHADOW 3EC HERBICIDE alone—without a tank mix herbicide—according to the appropriate size and rate directions.
- If at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control can result and a second non-post directed application of SHADOW 3EC HERBICIDE may be necessary.

COTTON

SHADOW 3EC HERBICIDE TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN ROUNDUP READY® COTTON AS A BROADCAST APPLICATION

TANK MIX PRODUCT ¹	SHADOW 3EC HERBICIDE APPLICATION RATES/A	
TANK WIX PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES
GLYPHOSATE	4–5.33 fl oz	5.33-10.67 fl oz
1 Follow the label of the tank mix partner for specified rates and adjuvant use		

COTTON

SHADOW 3EC HERBICIDE TANK MIX- WITH IGNITE 280 SL HERBICIDE FOR THE CONTROL OF GRASSES AND VOLUNTEER CORN IN LIBERTYLINK COTTON

SHADOW 3EC HERBICIDE Application Rates/A	CORN HEIGHT (inches)
2.67 fl oz	Up to 12 inches
4 fl oz	Up to 24 inches
5.33 fl oz	Up to 36 inches
	APPLICATION RATES/A 2.67 fl oz 4 fl oz

Follow the label of the tank mix partner for specified rates and adjuvant use.

DRY SHELLED BEANS

SHADOW SEC HERBICIDE TANK WILES WITH BROADLEAF HERBICIDES (See Grop specific tables for application directions)		
TANK MIX PRODUCT ²	SHADOW 3EC HERBICIDE APPLICATION RATES/A ¹	
IANK WILL PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES
BASAGRAN®	5.33–6.67 fl oz	6.67–10.67 fl oz
RAPTOR	5.55-0.07 11 02	0.07-10.07 11 02

- If grass regrowth occurs or an additional flush of new grass emerges, make a second application of SHADOW 3EC HERBICIDE alone—without a tank mix herbicide—according to the appropriate size and rate directions.
- Follow the label of the tank mix partner for specified rates and adjuvant use.

DRY SHELLED PEAS

SHADOW 3EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES (See crop specific tables for application directions)		
TANK MIX PRODUCT ²	SHADOW 3EC HERBICIDE APPLICATION RATES/A ¹	
IANK WIA PRODUCT	ANNUAL GRASSES ³	PERENNIAL GRASSES
BASAGRAN	4–5.33 fl oz	NA
RAPTOR	4-5.33 11 02	

- Apply prior to bloom.
- Follow the label of the tank mix partner for specified rates and adjuvant use.
- Grass regrowth or incomplete control may occur with these tank mixes. Make applications to small grasses and if regrowth occurs retreat with another graminicide.

FLAX

REDUCED RATE SHADOW 3EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES

(See crop specific tables for application directions)

TANK MIX PRODUCT ^{1,2,3}	SHADOW 3EC HERBICIDE APPLICATION RATES/A ¹	
IANK WIX PRODUCT	ANNUAL GRASSES ⁴	PERENNIAL GRASSES
BRONATE ADVANCED™		
Bromoxynil + MCPA		
BUCTRIL	2.67–3.33 fl oz	NA
Curtail® M		
MCPA		

- ¹ Follow the label of the tank mix partner for specified rates and adjuvant use.
- ² Do Not apply during or after the bud stage or to ornamental flax as crop injury can occur
- ³ Do Not apply tank mixes when temperatures are expected to exceed 85°F at or for 3 days following application as crop injury can occur.
- 4 Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

SOYBEAN BURNDOWN

SHADOW 3EC HERBICIDE TANK MIX WITH 2,4-D ESTER IN A BURNDOWN APPLICATION IN NO-TILL SOYBEAN FOR CONTROL OF ANNUAL GRASSES.

TANK MIX PRODUCT ¹	SHADOW 3EC HERBICIDE APPLICATION RATE/A	ANNUAL GRASS HEIGHT ^{2,3} (inches)
	2.67 fl oz	1–3 Inch foxtail
2,4-D ester	4 fl oz	1–4 Inch foxtail
	5.33 fl oz	Follow grass chart for heights

- Follow the 2,4-D ester label for specified rates and drift control measures required.
- Always use Crop Oil Concentrate at 1 qt/A and nitrogen fertilizer for best control of burndown grasses.
- 3 Additional products can be tank mixed with SHADOW 3EC HERBICIDE + 2,4-D Ester for residual control. These include: Valor®, Canopy® XL, metolachlor, Prowl® and metribuzen.

SOYBEAN

SHADOW 3EC HERBICIDE TANK MIX- WITH GLYPHOSATE FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN

TANK MIX PRODUCT ^{1,2}	SHADOW 3EC HERBICIDE Application Rate/A	CORN HEIGHT (inches)
	2.67 fl oz	Up to 12 inches
GLYPHOSATE (for use on Roundup Ready Soybean only)	4 fl oz	Up to 24 inches
	5.33 fl oz	Up to 36 inches

- 1 For adjuvant loaded glyphosate formulations add 0.25% v/v of additional non-ionic surfactant. For unloaded glyphosate formulations add 1% v/v Crop Oil Concentrate.
- ² This tank mix may be applied postemergence to Roundup Ready soybeans up through full flowering stage. Do not apply less than 60 days before harvest.

SOYBEAN

SHADOW 3EC HERBICIDE TANK MIX- WITH IGNITE 280 SL HERBICIDE FOR THE CONTROL OF GRASSES AND VOLUNTEER CORN IN SOYBEAN

TANK MIX PRODUCT ¹	SHADOW 3EC HERBICIDE Application Rate/a	CORN HEIGHT (inches)
IGNITE 280 SL (for use on LIBERTYLINK Soybean only)	2.67 fl oz	Up to 12 inches
	4 fl oz	Up to 24 inches
	5.33 fl oz	Up to 36 inches
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Follow the label of the tank mix partner for specified rates and adjuvant use.

SOYBEAN		
SHADOW 3EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES (See crop specific tables for application directions)		
TANK MIX PRODUCT ^{2,3,4}	SHADOW 3EC HERBICIDE APPLICATION RATE FOR ANNUAL GRASS CONTROL ^{1,5}	
COBRA		
FIRSTRATE®		
FLEXSTAR® HL		
FRONTROW™	4–5.33 fl oz/A	
HARMONY® GT		
PH0ENIX TM		
RESOURCE®		
BASAGRAN		
PURSUIT	F 22 C C7 fl cz/A	
RAPTOR	5.33–6.67 fl oz/A	
SYNCHRONY® STS® or SYNCHRONY XP (mp) (STS soybeans only)		

¹ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of **SHADOW 3EC HERBICIDE** alone—without a tank mix herbicide—according to the appropriate size and rate directions.

- ² Follow the label of the tank mix partner for specified rates and adjuvant use.
- AMS can be added to all tank mix partners for improved grass control.

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- ⁴ Refer to the label of the tank mix partner for geographic and rotational restrictions.
- 5 Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

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SHADOW 3EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES (See crop specific tables for application directions)			
TANK MIX PRODUCT ²	SHADOW 3EC HERBICIDE APPLICATION RATES/A ¹		
IANK MIX PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	
BASAGRAN			
STORM®	5.33–6.67 fl oz	NA NA	
ULTRA BLAZER®			

Make a second application of SHADOW 3EC HERBICIDE alone—without a tank mix herbicide—according to the appropriate size and rate directions, if grass regrowth occurs or an additional flush of new grass emerges.

² Follow the label of the tank mix partner for specified rates and adjuvant use.

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DIRECTIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY WITH SHADOW 3EC HERBICIDE			
GRASS SPECIES	WEED STAGE	RATE F	L OZ/A
Annual and perennial grasses that exceed height claimed for control on height charts, DIRECTIONS FOR ANNUAL GRASSES & DIRECTIONS FOR PERENNIAL GRASSES	Up to and including grasses in the seed head stage	10.67	21.33
Do not apply as part of a tank mix when applying SHADOW 3EC HERBICIDE for grass suppression.			

SLIGAR REET

SHADOW 3FC HERRICIDE TANK MIXED WITH STINGER® HERRICIDE OR FUNGICIDES (See crop specific tables for application directions)

SHADOW SEC HERDICIDE TANK MIXED WITH STINGER TERBICIDE ON FONGICIDES (See Crop specific tables for application directions)				
TANK MIX PRODUCT ²	SHADOW 3EC HERBICIDE APPLICATION RATES/A ¹			
TANK WIX PRODUCT	ANNUAL GRASSES ³	PERENNIAL GRASSES		
STINGER				
GLYPHOSATE (for use on Roundup Ready Sugarbeet only)				
EMINENT®	4–5.33 fl oz	5.33-10.67 fl oz		
HEADLINE®				
GEM®				

- Make a second application of **SHADOW 3EC HERBICIDE** alone—without a tank mix herbicide—according to the appropriate size and rate directions, if grass regrowth occurs or an additional flush of new grass emerges.
- Follow the label of the tank mix partner for specified rates and adjuvant use.
- 3 Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET FOR SMALL ANNUAL GRASSES table.

TANK MIX APPLICATION OF SHADOW 3EC HERBICIDE AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS.

SHADOW 3EC HERBICIDE can be tank mixed with insecticides that are registered for use in each specific crop. Certain insecticides can cause temporary phytotoxic symptoms on alfalfa and mint foliage. For further information on tank mixing with an insecticide, refer to the insecticide product label. Prior to using any of these insecticide/herbicide tank mixtures, it is recommended to treat a small area of the field and observed for crop injury before treating the entire field with the tank mixture.

Follow the label of the tank mix partner for specified rates and adjuvant use.

FALLOW LAND

DIRECTIONS FOR USE

SHADOW 3EC HERBICIDE can be used to control annual and perennial grasses in land that has been left fallow the previous year and on other non-producing agricultural areas. Make application at 4–5.33 fl oz/A for annual grasses and 10.67–21.33 fl oz/A for perennial grasses. SHADOW 3EC HERBICIDE can be tanked mixed with 2,4-D ester or BANVEL® for broad spectrum control when both grass and broadleaf weeds are the target pest. Apply a minimum of 10.67 fl oz/A SHADOW 3EC HERBICIDE when both annual and perennial grasses occur in the same field.

INFORMATION

Use a minimum spray volume of 5 gal/A for aerial applications and 15 gal/A for ground applications. Make applications only to actively growing grasses when the first grass reaches the recommended weed height as specified by the **DIRECTIONS FOR ANNUAL AND PERENNIAL GRASSES** section of this label.

Do not apply to drought stressed grasses.

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

Do not plant any crop for 30 days after application unless SHADOW 3EC HERBICIDE is registered for use on that crop.

Annual grasses that emerge after the SHADOW 3EC HERBICIDE application will not be controlled and a second application could be necessary.

Do not mow area for two (2) weeks prior to or after the SHADOW 3EC HERBICIDE application.

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

SHADOW 3EC HERBICIDE IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND		
TANK MIV PROPILET	SHADOW 3EC HERBICIDE APPLICATION RATES/A ^{1,2}	
TANK MIX PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES
2,4-D ester		
or	4–5.33 fl oz	10.67-21.33 fl oz.
BANVEL		

- See the BANVEL and 2.4-D ester labels for use rates, weeds controlled and crop rotation restrictions.
- ² Always use a crop oil concentrate at 1% v/v.

SHADOW 3EC HERBICIDE TO CONTROL EXISTING STANDS OF FIELD CORN AND VOLUNTEER FIELD CORN (BURNDOWN)			
Time From Application to Re-seeding corn	Use Rate per Acre	Adjuvant Recommendation	Special Use Instructions and Restrictions
6 days	2 fl oz	COC at 1% v/v plus AMS at 2.5 to 4.0 lb/A	Weed Size—up to 12 inches. Do not make more than 1 application per season. Do not apply more than 2 fl oz/A per season. Care must be taken to avoid in-field boom (spray) overlaps or excessive crop injury may occur. 90 day Pre-Harvest Interval

DIRECTIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH SHADOW 3EC HERBICIDE				
WEED STAGE	RAT	E FL OZ/A		
Up to and including grasses in the seed head stage	8	21.33		
	WEED STAGE	WEED STAGE RATE		

SHADOW 3EC HERBICIDE FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS				
PRODUCT PRODUCT PATES		GRASS WEEDS CONTROLLED/SUPPRESSED		WEED STACES
PRODUCT	PRODUCT RATES	Common Name	Scientific Name	WEED STAGES
SHADOW 3EC HERBICIDE	6.67-8 fl oz/A	Tall Fescue	Festuca arundinacea	4 to 6 inches tall (40-60% green-up)

ADJUVANT: SHADOW 3EC HERBICIDE must be applied with crop oil concentrate at 1 qt/A and a spray grade ammonium sulfate (AMS) at 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution.

Specified Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, then add SHADOW 3EC HERBICIDE.

SPECIAL APPLICATION INSTRUCTIONS

- Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue.
- Make application in the spring at 40–60% tall fescue green-up, prior to emergence of warm-season grasses.
- Make application in a minimum of 15-20 gallons water per acre.
- Make application only to fields that have warm season grasses established for two (2) years.

PRECAUTIONS

. Application of SHADOW 3EC HERBICIDE to emerged warm-season grasses may cause injury.

RESTRICTIONS

- Do not mow area for two (2) weeks after the SHADOW 3EC HERBICIDE application.
- Do not make applications to warm-season grasses grown for seed.
- Do not graze treated fields or feed treated forage and/or hav to livestock.
- . Do not plant any crop for 30 days after application, unless clethodim is registered for use on that crop.

SHADOW 3EC HERBICIDE FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS				
PRODUCT PRODUCT RATE		GRASS WEEDS CONTROLLED/SUPPRESSED		APPLICATION TIMING
PRODUCT	PRODUCT NATE	Common Name	Scientific Name	AFFEIGATION TIMING
SHADOW 3EC HERBICIDE	1-1.33 fl oz/A	Tall Fescue Seed-Heads	Festuca arundinacea	(50 to 90% Tall Fescue green-up)

ADJUVANT: **SHADOW 3EC HERBICIDE** must be applied with crop oil concentrate at 1 qt/A and a spray grade ammonium sulfate (AMS) at 2.5–4 lb/A or 8.5–17.0 lb/100 gallons of spray solution. Specified Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, then add **SHADOW 3EC HERBICIDE**.

SPECIAL APPLICATION INSTRUCTIONS

- Make application at 50–90% tall fescue green-up.
- If less tall fescue green matter is present, use the higher SHADOW 3EC HERBICIDE rate.
- Make application in a minimum of 15–20 gallons water per acre at a spray pressure of 40–60 PSI at the nozzle. Make application using flat fan or hollow cone nozzles. Do not
 use flood nozzles.

PRECAUTIONS

• 2,4-D ester, Tordon® 22K, Grazon®, P+D or Crossbow® may be added to this tank mix for broadleaf control (see the tank mix label for use rates, and for weeds controlled.)

RESTRICTIONS

- Do not mow area for two (2) weeks after the SHADOW 3EC HERBICIDE application.
- . Do not graze treated fields or feed treated forage and/or hay to livestock.
- Do not plant any crop for 30 days after application unless clethodim is registered for use on that crop.

STORAGE AND DISPOSAL

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

Pesticide Storage:

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC (800) 424-9300 or (703) 527-3887 if calling from outside of the U.S.

Pesticide Disposal:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling:

Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons). Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) prompty after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is rinsed, offer for recycling if available, or puncture and dispose of in a sanitary landfill.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

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GROUP HERBICIDE



Active Ingredient:	By Weight:
Clethodim, (E)-2[1-[[(3-chloro-2-propenyl)o	xy]limino]propyl]-5-
[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexe	en-1-one
* Contains Petroleum Distillates	Contains: 3.0 lb Clethodim per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

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

See inside booklet for additional First Aid, Directions for Use, and Precautionary Statements. FOR PRODUCT INFORMATION CALL: 1-866-761-9397

	FIRST AID
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 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 clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.
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 treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillates. Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause aspiration pneumonitis.

HOT LINE NUMBER

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

FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROSAR:

1-866-303-6952 or 1-651-603-3432.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contact with eyes or clothing. Wear protective eyewear, long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Viton, Selection Category F, G).

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.

STORAGE AND DISPOSAL

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

Pesticide Storage:

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children. preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC (800) 424-9300 or (703) 527-3887 if calling from outside of the U.S.

Pesticide Disposal:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling:

Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons). Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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

Once container is rinsed, offer for recycling if available, or puncture and dispose of in a sanitary landfill.

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