

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

March 8, 2021

Robert L. Hamilton Sr. Regulatory Manager Valent U.S.A. LLC 4600 Norris Canyon Road P. O. Box 5075

Subject: Notification per PRN 98-10 – Updating chemical name, correcting spelling of two uses,

updating company address, adding non-ACC resistant foot note.

Product Name: **V-10137 1 EC Herbicide** EPA Registration Number: 59639-132

Application Date: 02/10/2021 Decision Number: 571600

Dear Mr. Hamilton,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

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

If you have any questions, you may contact please contact Sayed Islam at 703-347- 0290 or by email at islam.sayed@epa.gov.

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Sincerely,

Erik Kraft, Product Manager 24 Fungicide and Herbicide Branch Registration Division (7505P) Office of Pesticide Programs



CLETHODIM GROUP 1 HERBICIDE

REDLINE COPY

[Bracketed Italicized text are notes for reviewer] [Bracketed text is optional]

V-10137 1 EC HERBICIDE

NOTIFICATION

59639-132

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

03/08/2021

Active Ingredient	By Wt
*Clethodim	12.6%
Other Ingredients	<u>87.4%</u>
Total	100.0%

*(5RS)-2-[(1EZ)-N-{[(2E)-3-chloroallyl]oxy}propanimidoyl]-5-[(2RS)-2-(ethylthio)propyl]-3-hydroxycyclohex-2-en-1-one(E) 2 [1-[[(3-chloro-2-propenyl)exy]imine]propyl] 5 [2-(ethylthio)propyl] 3-hydroxy-2-cyclohexen-1-one

Contains Petroleum Distillates

V-10137 1 EC Herbicide is an emulsifiable concentrate containing 0.97 lb clethodim active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT [PAGE][PANEL] FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 59639-132

NET CONTENTS [2.5 Gallon]
[15 Gallon]
[120 Gallon]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed.

	FIRST AID						
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. 						
If 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 treatment advice. 						
If swallowed:	 Immediately call a poison control center or doctor. Do not induce vomiting unless told to by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. 						
If inhaled:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 						

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves including barrier laminate or viton ≥ 14 mils, shoes plus socks and protective eyewear.

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

USER SAFETY RECOMMENDATIONS

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

ENVIRONMENTAL HAZARDS

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

NON-TARGET ORGANISM ADVISORY

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

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

Solano Grass: Solano County, California: the vernal lakes area bounded by the Union Pacific Railroad

and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south and

Travis Air Force Base to the west.

Wild Rice: Hays County, Texas.

[Note to EPA reviewer: if this product is shipped in containers greater than 50 lb, the following environmental hazard statement will be added to the label:]

[Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.]

PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

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

NON-AGRICULTURAL USE REQUIREMENTS

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

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

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CROP INFORMATION

V-10137 1 EC Herbicide is a selective postemergence herbicide for control of annual and perennial grasses in labeled crops. V-10137 1 EC Herbicide does not control sedges or broadleaf weeds.

RESTRICTIONS

- Application on Long Island, New York, is restricted to no more than 32 fl oz of V-10137 1 EC Herbicide (0.25 lb ai) per acre per year.
- **DO NOT** apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- DO NOT plant rotational crops until 30 days after application of V-10137 1 EC Herbicide unless crop is listed on V-10137 1 EC Herbicide label.
- DO NOT apply a postemergence broadleaf herbicide within one day following application of V-10137 1 EC
 Herbicide or reduced grass control may result.
- DO NOT apply under conditions of stress. Applying V-10137 1 EC Herbicide under conditions that do not
 promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive
 water, extremes in temperature, low humidity and grasses either partially controlled or stunted from prior
 pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate
 V-10137 1 EC Herbicide effectively and will be less susceptible to herbicide activity.
- Aerial applications for all tree fruits and tree nuts uses are prohibited.
- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Tank mixes of V-10137 1 EC Herbicide and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of V-10137 1 EC Herbicide may be necessary.

PRECAUTIONS

- Grass crops including corn, rice, small grains, sorghum or turf, etc. are highly sensitive and may be injured or killed if they come in contact with V-10137 1 EC Herbicide.
- Drift onto food, forage or other plantings may render them unfit for sale, use or consumption.
- V-10137 1 EC Herbicide is not specified for use on vegetable crops being grown for seed production unless specific use directions are provided.
- Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, including continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, results in a very staggered, non-uniform weed emergence. Due to this non-uniform weed emergence, no fewer than two V-10137 1 EC Herbicide applications per year are directed at the appropriate weed-growth stage rate under continuous no-till conditions.
- While all the vegetable crops on this label have been tested for crop safety with V-10137 1 EC Herbicide, not
 all specialty varieties of these crops have been tested. Before applying V-10137 1 EC Herbicide to specialty
 varieties of vegetable crops on this label, first apply to a small section of the field to evaluate potential injury.
 Injury symptoms may appear as leaf speckling or stunting.

Control Symptoms

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

APPLICATION INFORMATION

Timing of Applications

Apply V-10137 1 EC Herbicide postemergence to actively growing grasses according to prescribed rates in the tables. Applications made to grass plants stressed by insufficient moisture, hot or cold temperatures, or to grass plants exceeding specified growth stages may result in unsatisfactory control. **Restriction: DO NOT** apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, V-10137 1 EC Herbicide must be applied, as soon as possible, after an irrigation (within 7 days). In arid regions, a second application of V-10137 1 EC Herbicide will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of V-10137 1 EC Herbicide may reduce weed control.

Ground Application

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

Applications to garlic or onions (dry bulb and green) must be made in a minimum of 20 gals of spray solution per acre.

Air Application

Use a minimum of 3 gals of spray solution per acre unless otherwise directed in this label. Increase spray volumes up to 10 gals as grass or crop foliage becomes dense. For garlic or onions (dry bulb and green): When applying by air **DO NOT** exceed 16 fl oz/A (0.121 lb ai/A) in a single application. In California, air applications to garlic or onion must be made in a minimum of 20 gals of spray solution per acre. In states other than California, air application to garlic or onion must be made in a minimum of 10 gals of spray solution.

NOTE: Crop injury may occur when V-10137 1 EC Herbicide is applied to garlic or onion with aerial equipment.

Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/3 to 2/3% (0.44 oz to 0.85 oz per gal.) V-10137 1 EC Herbicide and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz per gal) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at 1/4% (0.33 oz per gal) by volume.

Restriction: If V-10137 1 EC Herbicide is applied as a spot treatment take care not to exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.

CHEMIGATION – GARLIC, ONIONS (Dry Bulb) and GREEN ONION SPRINKLER IRRIGATION APPLICATION

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

Apply V-10137 1 EC Herbicide at the high rate prescribed for annual grasses (32 fl oz/A with 0.242 lb ai/A) when the grass height is at the high end of the range (application to larger grasses may not provide adequate control). Add a crop oil concentrate containing at least 15% emulsifier at 1 quart per acre or non-ionic surfactant with at least 80% active ingredient at 0.25% v/v of total spray solution.

Apply V-10137 1 EC 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 directed 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 V-10137 1 EC 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 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 regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Restrictions

- DO NOT apply V-10137 1 EC Herbicide by chemigation in the states of Idaho, Montana, Oregon and Washington.
- **DO NOT** apply by chemigation to any other crop, or to this crop using any other type of irrigation system.
- DO NOT apply this product through any other type of irrigation system.
- **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
- DO NOT apply when wind speed favors drift beyond the area intended for treatment.
- Apply this product only through irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set or hand move.
- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 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, including 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.
- A person knowledgeable of chemigation system and responsible for its operation or under supervision of the responsible person, shall shut the system down and make all necessary adjustments.

Use Precautions

- 1. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.
- 2. If you have any questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

MANDATORY SPRAY DRIFT

Aerial Application

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater
 application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Ground Boom Applications

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

SPRAY DRIFT ADVISORIES

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

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size – Ground Boom

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

Controlling Droplet Size – Aircraft

 Adjust Nozzles – Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

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

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TERMPERATURE INVERSIONS

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

WIND

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

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

Weed Resistance Management

For resistance management, V-10137 1 EC Herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to V-10137 1 EC Herbicide and other Group 1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of V-10137 1 EC Herbicide or other Group 1 herbicides within a growing season sequence
 or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method including hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistancemanagement and/or integrated weed-management recommendations for specific crops and weed biotypes.
- Report any incidence of non-performance of this product against a particular weed species to your Valent U.S.A. retailer, representative or call 800-682-5368. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE								
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions		
Alfalfa, Seedling	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/Methyl ated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant directions.	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 2 applications per acre per year.		
Alfalfa, Established including: Sainfoin, Holy clover, Birdsfoot trefoil	15 days before grazing, feeding or harvesting (cutting) for forage or hay	12 to 16 fl oz (0.091 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/Methyl ated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant directions.	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. For Annual Grasses: DO NOT t make more than 4 applications per acre per year. For Perennial Grasses: DO NOT make more than 2 applications per acre per year.		
Artichoke (Globe)	5 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.		

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE								
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions		
[Dried Shelled Pea and Bean (except Soybean) Subgroup 6C] Bean, Dry (except soybean) including: Bean (Lupinus spp.) Grain Sweet White White Sweet Bean (Phaseolus spp.) Field Kidney Lima (dry) Navy Pinto Tepary Bean (Vigna spp.) Adzuki Bean Black-eyed Pea Catjang Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Broad (dry) Chickpea (garbanzo) Guar Lablab Bean Lentil	30 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS)at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz/A (0.121 lb ai/A) per year. • For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz/A (0.242 lb ai/A) per year. • For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 8 applications at 8 fl oz/A (0.061 lb ai/A) per year.		

(Continued) (Continued)

Table 1. CROP SP	Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE								
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions			
[Succulent Shelled Pea and Bean Subgroup 6B] Bean, Succulent Shelled including: Bean (Phaseolus spp.) Broad Bean (succulent) Lima Bean (green) Bean (Vigna spp.) Black-eyed Pea Cowpea Southern Pea	21 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 1 application per acre per year. • For Annual and Perennial Grasses: DO NOT make more than 1 application at 16 fl oz/A (0.121 lb ai/A) per year. • For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 2 applications at 8 fl oz/A (0.061 lb ai/A) per year.			
Beet, Garden	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.			

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE							
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions	
Berry Low Growing (except Cranberry and Strawberry) [Subgroup 13-07G] including: Bearberry Bilberry Blueberry, lowbush Cloudberry Lingonberry Muntries Partridgeberry	45 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make a minimum of a 14 day interval. Verify Crop safety to V-10137 1 EC Herbicide on a small area of the crop, at the desired V-10137 1 EC Herbicide rate and with the same Non-ionic Surfactant (NIS) that will be used on the field. If no crop response is evident 7 days after treatment, V-10137 1 EC Herbicide may be used on the entire field at the rate tested and with the same NIS used in the crop safety test. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications.	
Brassica Head and Stem Vegetable [Crop Group 5-16][*] including: Broccoli Brussels Sprouts Cabbage Cabbage, Chinese (Napa) Cauliflower cultivars, varieties and/or hybrids of these commodities	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.	

Table 1. CROP SP		IRECTIONS		RICTIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Brassica Leafy Greens [Subgroup 4-16B] (except Radish Leaves, Turnip Greens and Watercress)[*] including: Arugula Broccoli, Chinese Broccoli Raab Cabbage, Abyssinian Cabbage, Chinese (bok choy) Cabbage, Seakale Collards Cress, Garden Cress, Upland Hanover Salad Kale Maca (leaves) Mizuna Mustard Greens Rape Greens Rocket, Wild Shepherd's Purse Cultivars, varieties, and hybrids of these commodities	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.
Bushberry [Subgroup 13-07B] Bushberry including: Aronia Berry Blueberry, Highbush Chilean Guava Cranberry, Highbush Currant, Black Currant, Black Currant, Native Currant, Red Elderberry European Barberry Gooseberry Honeysuckle Edible Huckleberry Juneberry, Saskatoon Berry Native Currant Salal Sea Buckthorn Cultivars, varieties and/or hybrids of these.	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make a minimum of a 14 day interval. Restrictions Do NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. Do NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. Do NOT make more than 4 applications per acre per year.

Table 1. CROP SP	ECIFIC USE D	IRECTIONS	AND RESTRI	CTIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
[Subgroup 13-07A] Caneberry including: Blackberry Loganberry Raspberry, Black Raspberry, Red Raspberry, Wild Cultivars, varieties and/or hybrids of these.	7 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.
Canola [including Rapeseed [Subgroup 20A], except flax seed, mustard seed and sesame seed] (Not for use in California) Borage Crambe Cuphea Echium Gold of Pleasure (Camelina) Hare's Ear Mustard Lesquerella Lunaria Meadowfoam Milkweed Oil Radish Poppy seed Rapeseed (canola) Sweet Rocket	70 days	9 to 12 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 fl oz (0.091 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	Verify crop safety to V- 10137 1 EC Herbicide on a small area of the crop, at the desired V-10137 1 EC Herbicide rate and with the same Non-ionic Surfactant (NIS) that will be used on the field. If no crop response is evident 7 days after treatment, V-10137 1 EC Herbicide may be used on the entire field at the rate tested and with the same NIS used in the crop safety test. Restrictions • DO NOT apply more than 12 fl oz/A (0.091 lb ai/A) per application. • For Annual and Perennial Grasses: DO NOT make more than 1 application at 12 fl oz/A (0.091 lb ai/A) per year. • For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 1 application at 8 fl oz/A (0.061 lb ai/A) per year. • DO NOT apply after crop has begun bolting. Crop injury may occur when V-10137 1 EC Herbicide is applied during the bloom period.

Table 1. CROP SP	ECIFIC USE D	IRECTIONS	AND RESTRICT	Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE								
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions						
Carrot	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.						
Clover	15 days before grazing, feeding or harvesting (cutting) for forage or hay	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	2.5 to 4 lb/A	For use on clover grown in the states of Idaho, Oregon and Washington only. For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 2 applications at 16 fl oz/A (0.121 lb ai/A) per year. • For Perennial Grasses: DO NOT make more than 1 application at 32 fl oz/A (0.242 lb ai/A) per year.						

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Corn, Field	90 days	6 fl oz (0.045 lb ai)	-	Non-ionic surfactant (NIS) at 0.25% v/v plus Ammonium Sulfate DO NOT use Crop Oil Concentrate or Methylated Seed Oil with V-10137 1 EC Herbicide in this use pattern.	2.5 to 4 lb/A	To control existing stand, replant no sooner than 6 days after application. For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn. See DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN) table. Restrictions DO NOT make more than 1 application per acre per year. DO NOT apply more than 6 fl oz/A (0.045 lb ai/A) per year.
Cotton (including cotton grown for seed)	60 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/Meth ylated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant directions.	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz/A (0.121 lb ai/A) per year. For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz/A (0.242 lb ai/A) per year. DO NOT graze treated fields or feed treated forage or hay to livestock.

Table 1. CROP SP	Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE								
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions			
Cranberry	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year. DO NOT apply between the "hook" stage and full fruit set.			
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas	N/A	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. • DO NOT apply more than 64 fl. oz/A (0.485 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz/A (0.121 lb ai/A) per year. • For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz/A (0.242 lb ai/A) per year. • DO NOT plant any crop for 30 days after application unless clethodim is registered for use in that crop.			

Table 1. CROP SP	ECIFIC USE D	IRECTIONS	AND RESTRIC	TIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Flax (Not for use in California)	60 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	Apply prior to bloom. Crop injury may occur when V-10137 1 EC Herbicide is applied during the bloom period. For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 32 fl oz (0.242 lb ai/A) per year. • For Annual and Perennial Grasses: DO NOT make more than 2 applications at 16 fl oz/A (0.121 lb ai/A) per year. • For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 4 applications at 8 fl oz/A (0.061 lb ai/A) per year.
Fruiting Vegetables (except Okra and Tomato) [Crop Group 8-10] including: African Eggplant Bush Tomato Bell Pepper Cocona Currant Tomato Eggplant Garden Huckleberry Goji Berry Groundcherry Martynia Naranjilla Pea Eggplant Pepino Non-bell Pepper; Roselle Scarlet Eggplant Sunberry Tomatillo Tree Tomato cultivars, varieties, and/or hybrids of these.	20 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • DO NOT make more than 4 applications per acre per year.

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE							
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions	
[Subgroup 19A] Herbs including: Angelica Balm Basil Borage Burnet Chamomile Catnip Chervil (dried) Chive Chive, Chinese Clary Coriander (leaf) Costmary Culantro (leaf) Curry (leaf) Dill (dillweed) Horehound Hyssop Lavender Lovage (leaf) Marigold Marjoram (Origanum spp.) Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Savory, Summer and Winter Sweet Bay Tansy Tarragon Thyme Wintergreen Woodruff Wormwood	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. V-10137 1 EC Herbicide has not been tested on all herbs, and herb varieties. It is the responsibility of the user to test V-10137 1 EC Herbicide on a small portion of the crop to be treated before treating the entire field. Verify crop safety to V-10137 1 EC Herbicide on a small area of the crop, at the desired V-10137 1 EC Herbicide rate and with the same crop oil concentrate that will be used on the field. If no crop response is evident 7 days after treatment, V-10137 1 EC Herbicide may be used on the entire field at the rate tested and with the same crop oil used in the crop safety test. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb. ai/A) per year. DO NOT make more than 4 applications per acre per year.	

Table 1. CROP SP		IKECTIONS A		TIONS FOR V-1013	/ 1 EC HERBICIDE	T
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Hops	21 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat application make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A(0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.
Leaf Lettuce	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.
[Subgroup 22B] Leaf Petiole Vegetables[*] including: Cardoon Celery Celery, Chinese Fuki Rhubarb Udo Zuiki Cultivars, varieties, and hybrids of these commodities.	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.

Crops ¹¹ Minimum Time From Grass Application to Harver Mapplication	Table 1. CROP SPI	ECIFIC USE DI	RECTIONS .	AND RESTRI	CTIONS FOR V-1013	7 1 EC HERBICIDE	
Subgroup 4	Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	And Restrictions
	[Subgroup 4- 16A][*] including: Amaranth, Chinese Amaranth, Leafy Aster, Indian Blackjack Cat's Whiskers Cham-chwi Cham-na-mul Chervil (fresh leaves) Chipilin Chrysanthemum, Garland Cilantro (fresh leaves) Corn Salad Cosmos Dandelion (leaves) Dang-gwi (leaves) Dillweed Dock Dol-nam-mul Ebolo Endive Escarole Fameflower Feather Cockscomb Good King Henry Huauzontle Jute (leaves) Lettuce, Bitter Lettuce, Head Lettuce, Leaf Orach Parsley (fresh leaves) Plantain, Buckhorn Primrose, English Purslane, Garden Purslane, Winter Radicchio Spinach Spinach, Malabar Spinach, New Zealand Spinach, Tanier Swiss Chard Violet, Chinese (leaves) Cultivars, varieties and hybrids of these	14 days	fl oz (0.068 to 0.121 lb	fl oz (0.091 to		None	make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per

Table 1. CROP SP	ECIFIC USE DI	RECTIONS A	ND RESTRIC	TIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Legume Vegetables, Edible Podded [Subgroup 6A]including: Bean (Phaseolus spp.) Runner Snap Wax Bean (Vigna spp.) Asparagus Chinese Longbean Moth Yardlong Jackbean Edamame, immature soybean Pea (Pisum spp.) Dwarf Edible-pod Snow Sugar Snap Pigeon Sword Bean	21 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For peas apply before bloom, but no later than 21 days before harvest. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 1 application per acre per year. • DO NOT apply more than 0.121 lb ai/A per year.
Melon [Subgroup 9A] Citron melon Muskmelon (including cantaloupe) Watermelon	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Mustard Seed[*]	75 days	9 to 12 fl oz ⁽⁵⁾ (0.068 to 0.091 lb ai)	12 fl oz (0.091 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	Restrictions DO NOT apply more than 12 fl oz/A (0.091 lb ai/A) per year. For Annual and Perennial Grasses: DO NOT make more than 1 application at 12 fl oz/A (0.091 lb ai/A) per year. For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 1 application at 8 fl oz/A (0.061 lb ai/A) per year. DO NOT apply after crop has begun bolting. Crop injury may occur when V-10137 1 EC Herbicide is applied during the bloom period.
Okra[*]	3 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT make more than 4 applications per acre per year. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year.

Table 1. CROP SP		IRECTIONS		CTIONS FOR V-10137	1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Onions (Dry Bulbs Only) [Onion, bulb]	45 days	9 to 16 fl oz (0.068 to	12 to 32 fl oz (0.091 to	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval.
[Subgroup 3-07A] Including: Daylily, Bulb Fritillaria Bulb		0.121 lb ai)	0.242 lb ai)			Minimum of 20 gals/A spray volume by ground in entire U.S.
Garlic, Bulb Garlic, Great- headed, Bulb						Minimum of 20 gals/A spray volume by air in California.
Garlic, Serpent, Bulb Lily Bulb Onion, Bulb Onion, Chinese, Bulb						In states other than California, make all air applications to onions or garlic in a minimum of 10 gals/A.
Onion, Pearl Onion, Potato, Bulb Shallot, Bulb cultivars, varieties, and/or hybrids of these.						Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz/A (0.121 lb ai/A) per year. For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz/A (0.242 lb ai/A) per year. If V-10137 1 EC Herbicide is applied as a spot treatment to garlic or onion crops, care must be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur. In California, DO NOT apply V-10137 1 EC Herbicide to garlic or onion until crop has at least two full leaves. Use a14 day spray interval between the application of V-10137 1 EC Herbicide and liquid nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.

Table 1. CROP SP	ECIFIC USE D	IRECTIONS	AND RESTRI	CTIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Onions, Green [Subgroup 3- 07B][*] including: Chive (fresh leaves) Chive, Chinese (fresh leaves) Elegans Hosta Fritillaria (leaves) Kurrat Lady's Leek Leek Leek, Wild Onion, Beltsville (bunching) Onion (fresh) Onion, Green Onion, Macrostem Onion, Tree (tops) Onion, Welsh (tops) Shallot (fresh leaves) Cultivars, varieties, and hybrids of these commodities.	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Minimum of 20 gals/A spray volume by air in California. In states other than California, make all air applications to onions or garlic in a minimum of 10 gals/A. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • DO NOT make more than 4 applications per acre per year. If V-10137 1 EC Herbicide is applied as a spot treatment to onion crops, care must be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur. In California, DO NOT apply V-10137 1 EC Herbicide to onions until crop has at least two full leaves. Use a 14 day spray interval between the application of V-10137 1 EC Herbicide and liquid nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.

Table 1. CROP SP	ECIFIC USE D	IRECTIONS	AND RESTR	RICTIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Dried Shelled Pea [Subgroup 6C] (Pisum spp.) including: Field Pigeon	30 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	Apply before bloom but not later than 30 days prior to harvest. Applications of V-10137 1 EC Herbicide to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 1 application at 16 fl oz/A (0.121 lb ai/A) per year. For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 2 applications at 8 fl oz/A (0.061 lb ai/A) per year.

Table 1. CROP SP	PECIFIC USE	DIRECTION	S AND REST	RICTIONS FOR V-101	137 1 EC HERBICID	E
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Pea, Succulent Shelled (Pisum spp.) [Subgroup 6B] including: English Pea Garden Pea Green Pea Pigeon Pea	21 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	Apply before bloom but not later than 21 days prior to harvest. Applications of V-10137 1 EC Herbicide to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 1 application at 16 fl oz/A (0.121 lb ai/A) per year. For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 2 applications at 8 fl oz/A (0.061 lb ai/A) per year.
Peanut (including perennial)	40 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/Methylat ed Seed Oil at 1 qt/A or 1% v/v	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 2 applications per acre per year.

Table 1. CROP SP		IRECTIONS A		TIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Peppermint and Spearmint Tops	21 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval.
		0.121 lb all	0.242 ib di)	Crop Oil Concentrate/Mehtyl ated Seed Oil at 1 qt/A or 1%v/v		Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz/A (0.121 lb ai/A) per year. For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz/A (0.242 lb ai/A) per year.
Pome Fruit [Crop Group 11-10] Including: Apple Azarole Crabapple Loquat Mayhaw Medlar Pear	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb
Pear, Asian Quince Quince, Chinese Quince, Japanese Tejocote						ai/A) per year.DO NOT make more than 4 applications per acre per year.
Potato	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval.
		,	,	Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v		Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 2 applications per acre per year.
Radish Radish (leaves)	15 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval.
		5.12 · 13 di)	523 (1)			Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per year. DO NOT make more than 2 applications per acre per year.

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE										
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions				
Root Vegetables [Subgroup 1A] (except Sugar Beet and Radish) Burdock, Edible Celeriac Chervil, Turnip Rooted Chicory Ginseng Parsley, Turnip Rooted Parsnip Radish, Oriental Rutabaga Salsify Salsify, Black Salsify, Spanish Skirret Turnip	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.				
Safflower	70 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.				
Sesame	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply during flowering. • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT make more than 4 applications per acre per year. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year.				

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE										
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions				
Soybean	60 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant directions.	2.5 to 4 lbs/A	For repeat applications make on a minimum of a 14 day interval. See V-10137 1 EC HERBICIDE TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN. Restrictions • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz (0.121 lb ai) per acre per year. • For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz (0.242 lb ai) per acre per year. • For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 8 applications at 8 fl oz/A (0.061 lb ai/A) per year. • DO NOT graze treated fields or feed treated forage or hay to livestock.				

Table 1. CROP SPEC	CIFIC USE DII	RECTIONS AN	ND RESTRIC	TIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Applicatio n to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Squash/Cucumber [Subgroup 9B] Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra) Momordica spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber) Pumpkin Squash, Summer Squash, Winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash)	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • DO NOT make more than 4 applications per acre per year.
Stalk and Stem Vegetable [Subgroup 22A][*]including: Agave Aloe Vera Asparagus Bamboo Shoots Celtuce Fennel, Florence (fresh leaves and stalk) Fern, Fiddlehead (edible) Kale, Sea Kohlrabi Palm Hearts Prickly Pear (pads) Prickly Pear, Texas (pads) cultivars, varieties, and/or hybrids of these commodities	1 day	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE							
Crops ⁽¹⁾ Minimum Time From Application to Harvest (PHI) Annual Grass Use Rate Per Acre ⁽²⁾ Perennial Grass Use Rate Per Acre ⁽²⁾ Adjuvant Rates ⁽³⁾ Ammonium Sulfate Rates ⁽⁴⁾ And Restriction							
Stevia (dried leaves) 14 days 9 to 16 fl oz (0.091 to 0.121 lb ai) 12 to 16 fl oz (0.091 to 0.121 lb ai) 0.121 lb ai) 15 lo 16 lo 0.121 lb ai) 16 lo 0.121 lb ai) 17 lo 0.121 lb ai) 18 lo 0.121 lb ai) 19 to 16 fl oz / (0.091 to 0.121 lb ai) 19 to 16 lo 0.121 lb ai) 10 lo 0.137 l EC Herbicide reate and to entire field. 10 lo 0.137 l EC Herbicide small area of the ord the desired V-10137 Herbicide rate and to same Non-lonic Sur (NIS) that will be use the field at the rate tests with the same NIS to the crop safety test. 10 lo NOT apply in than 6f lo 0.2/ ((a ai/A) per year. 10 lo NOT apply in than 4f application acre per year.	of a cide on all user to be ng the V- de on a p, at 1 EC vith the factant ed on 7 days cide entire d and sed in nore 0.121 lb tion. nore 0.485 lb						

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE						
	Minimum	Annual	Perennial			
Crops ⁽¹⁾	Time From	Grass	Grass	Adjuvant Rates ⁽³⁾	Ammonium	Special Use Instructions
	Application to	Use Rate	Use Rate	, ,	Sulfate Rates ⁽⁴⁾	And Restrictions
Otama Emvit	Harvest (PHI)	Per Acre ⁽²⁾	Per Acre ⁽²⁾	Namiania	Nama	Fannanat annliastions
Stone Fruit [Crop Group 12-12] Including: Apricot Apricot, Japanese Capulin Cherry, Black Cherry, Nanking Cherry, Sweet Cherry, Tart; Jujube, Chinese Nectarine Peach Plum Plum, American Plum, Beach Plum, Canada Plum, Cherry Plum, Chickasaw Plum, Damson	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • DO NOT make more than 4 applications per acre per year.
Plum, Japanese; Plum, Klamath Plum, Prune Plumcot Sloe						
Strawberry	4 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. DO NOT make more than 4 applications per acre per year.

Table 1. CROP SF	,	RECTIONS A		CTIONS FOR V-1013	7 1 EC HERBICIDE	
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Sugar Beet	40 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant directions.	2.5 to 4 lb/A	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz (0.121 lb ai) per acre per year. For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz (0.242 lb ai) per acre per year. For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 8 applications at 8 fl oz/A (0.061 lb ai/A) per year.

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE							
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions	
Sunflower [Subgroup 20B] including: Calendula Casteroil Plant Chinese Tallowtree Euphorbia Evening Primrose Jojoba Niger Seed Rose Hip Stokes Aster Tallowwood Tea Oil Plant Vernoia	70 days	9 to 16 fl oz ⁽⁵⁾ (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant directions.	2.5 to 4 lbs/A	For repeat applications make on a minimum of a 14 day interval. Verify crop safety to V-10137 1 EC Herbicide on a small area of the crop, at the desired V-10137 1 EC Herbicide rate and with the same crop oil concentrate that will be used on the field. If no crop response is evident 7 days after treatment, V-10137 1 EC Herbicide may be used on the entire field at the rate tested and with the same crop oil used in the crop safety test. Restrictions DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz (0.121 lb ai) per acre per year. For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz (0.242 lb ai) per acre per year. For Reduced Rate Control for Small Annual Grasses: DO NOT make more than 8 applications at 8 fl oz/A (0.061 lb ai/A) per year.	

Table 1. CRC	Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE								
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions			
Tomato	20 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz (0.121 lb ai) per acre per year. • For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz (0.242 lb ai) per acre per year.			

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE						
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions
Tree Nuts [Crop Group 14- 12][*] including: African Nut-tree Almond Beechnut Brazil Nut Brazilian Pine Bunya Bur Oak Butternut Cajou Nut Candlenut Cashew Chestnut Chinquapin Coconut Coquito Nut Dika Nut Ginkgo Guiana Chestnut Hazelnut (Filbert) Heartnut Hickory Nut Japanese Horse- chestnut Mongongo Nut Monkey-pot Monkey-pot Monkey Puzzle Nut Okari Nut Peach Palm Nut Pecan Pequi Pili Nut Pine Nut Pistachio Sapucaia Nut Tropical Almond Walnut, Black Walnut, English Yellowhorn Cultivars, varieties, and/or hybrids of these.	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) At 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. DO NOT make more than 4 applications per acre per year. DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year.

Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE							
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions	
Tuberous and Corm Vegetables Subgroup [Subgroup 1C] (except Potato) Including Sweet Potato, Yam : Artichoke Chinese Jersusalem Cassava Bitter Sweet Ginger	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat applications make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 32 fl oz/A (0.242 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz (0.121 lb ai) per acre per year. • For Perennial Grasses: DO NOT make more than 2 applications at 32 fl oz (0.242 lb ai) per acre per year.	
Turnip Greens	14 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat application make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • DO NOT make more than 4 applications per acre per year.	

Table 1. CROP SP	Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE							
Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Annual Grass Use Rate Per Acre ⁽²⁾	Perennial Grass Use Rate Per Acre ⁽²⁾	Adjuvant Rates ⁽³⁾	Ammonium Sulfate Rates ⁽⁴⁾	Special Use Instructions And Restrictions		
Watercress[*]	30 days	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 16 fl oz (0.091 to 0.121 lb ai)	Non-ionic Surfactant (NIS) at 0.25% v/v	None	For repeat application make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 16 fl oz/A (0.121 lb ai/A) per application. • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • DO NOT make more than 4 applications per acre per year. • DO NOT apply when watercress is under flood conditions. • DO NOT apply V-10137 1 EC Herbicide when water is in the field and hold water for at least 24 hours after an application.		

N/A = Not Applicable [*Not for use in California]

- (1) V-10137 1 EC Herbicide is not for use on vegetable crops being grown for seed production unless specific use directions are provided.
- (2) See annual and perennial grass control tables for specific use rates.
- (3) Non-ionic surfactant (NIS) in this case refers to an adjuvant containing at least 80% non-ionic surfactant. Crop oil concentrate in this case refers to both crop oil concentrate and crop oil concentrate blends. Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier. Acceptable crop oil concentrate blends would be those that contain a minimum of 60% oils and 25-40% surfactants and emulsifiers. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils.
- (4) Use spray grade ammonium sulfate. The use of ammonium sulfate does not take the place of the required adjuvant.
- (5) See DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.
- (6) For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn. See DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN) table.

USE DIRECTIONS FOR ANNUAL GRASSES ALL CROPS

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

Restrictions

- DO NOT exceed the maximum per application rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE.
- **DO NOT** exceed the maximum yearly rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT*	MINIMUM	MAXIMUM
		(inches)	RATE fl oz/A	RATE ⁽¹⁾ fl oz/A
Barnyardgrass Ed	chinochloa crus-galli	2 to 8	9 (0.068 lb ai)	16 (0.121 lb ai)
Broadleaf Signalgrass Br	rachiaria platyphylla	2 to 6	9	16
Brome				
California Br	romus carinatus	2 to 6	9	16
Cheat Br	romus secalinus	2 to 6	9	16
Downy Br	romus tectorum	2 to 6	9	16
Ripgut Br	romus diandrus	2 to 6	9	16
Canarygrass Ph	halaris canariensis	1 to 4	9	16
Crabgrass				ı
Hairy Di	igitaria adscendens	2 to 6**	9	16
Large Di	igitaria sanguinalis	2 to 6**	9	16
	igitaria ischaemum	2 to 6**	9	16
Southern Di	igitaria ciliaris	2 to 6**	9	16
Crowfootgrass Da	actyloctenium aegyptium	2 to 6**	9	16
	anicum dichotomiflor	2 to 8	9	16
Field Sandbur Ce	enchrus incertus	2 to 6	9	16
Foxtail				
Giant Se	etaria faberi	2 to 12	9	16
Green Se	etaria viridis	2 to 8	9	16
Yellow	etaria glauca	2 to 8	9	16
	leusine indica	2 to 6**	9	16
	ottboellia cochinchinensis	2 to 6	9	16
Junglerice Ed	chinochloa colona	2 to 6	9	16
Lovegrass (Stinkgrass) Er	ragrostis cilianensis	2 to 6	9	16
Rabbitsfootgrass Po	olypogon monspeliensis	1 to 4	9	16
	ryza sativa	1 to 3	9	16
Ryegrass	•			ı
Hardy Lo	olium remotum	2 to 6	9	16
	olium multiflorum	2 to 6	9	16
Seedling Johnsongrass* So	orghum halepense	4 to 10	9	16
	orghum bicolor	6 to 18	9	16
	riochloa gracilis	2 to 6	9	16
Sprangletop	Ŭ			
	eptochloa panicoides	2 to 6	9	16
	eptochloa fascicularis	2 to 6	9	16
	eptochloa uninervia	2 to 6	9	16
	eptochloa filiformis	2 to 6	9	16

*Non-ACC resistant continued

USE DIRECTIONS FOR ANNUAL GRASSES

ALL CROPS (continued)

		WEED	APPLICAT	APPLICATION RATES		
GRASS SPECIES	SCIENTIFIC NAME	HEIGHT* (inches)	MINIMUM RATE fl oz/A	MAXIMUM RATE ⁽¹⁾ fl oz/A		
Texas Panicum	Panicum texanum	2 to 6	9 (0.068 lb ai)	16 (0.121 lb ai)		
Volunteer Cereals ⁽³⁾						
Barley	Hordeum vulgare	2 to 6	9	16		
Oats	Avena sativa	2 to 6	9	16		
Rye	Secale cereale	2 to 6	9	16		
Wheat ⁽²⁾	Triticum aestivum	2 to 6	9(2)	16		
Volunteer Corn ^(2,3)	Zea mays	up to 12	6	12 (0.091 lb ai)		
Volunteer Corn ⁽³⁾	Zea mays	up to 24	9	14 (0.106 lb ai)		
Volunteer Corn ^(2,3)	Zea mays	up to 36	12 (0.091 lb ai)	16		
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	9	16		
Wild Oats	Avena fatua	2 to 6	9	16		
Wild Proso Millet	Panicum miliaceum	2 to 10	9	16		
Witchgrass	Panicum capillare	2 to 8	9	16		
Woolly Cupgrass	Eriochloa villosa	2 to 8	9	16		

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

^{**}Length of lateral growth.

⁽¹⁾ Rates higher than 16 fl oz/A (0.121 lb ai/A) may be applied in certain geographic areas, cropping situations or environmental conditions, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 16 to 32 fl oz/A (0.121 to 0.242 lb ai/A) may be applied.

When a cereal grain crop (including wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum V-10137 1 EC Herbicide use rate for control is 12 fl oz/A (0.091 lb ai/A).

⁽³⁾ Includes Roundup Ready, Liberty Link® and Clearfield® volunteer corn; however not Sethoxydim-Resistant volunteer corn.

ALFALFA AND PEPPERMINT AND SPEARMINT TOPS WITH V-10137 1 EC HERBICIDE							
GRASS SPECIES	WEED SPECIES AND SIZE	APPLICATION RATES					
Annual & Perennial Grasses Listed in Grass Tables	See Annual and Perennial Grass Tables	See Table 1, CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE					

HEE DIRECTIONS FOR ANNUAL & REPENNIAL CRASS CONTROL IN FETABLISHED

Mowing: The best control of annual grasses can be achieved by applying V-10137 1 EC Herbicide before grass weeds are mowed. Once a grass is mowed it becomes tougher to control, as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses, even though they may be an annual grass, may require repeated applications of V-10137 1 EC Herbicide for partial or complete control.

Irrigated Alfalfa and Peppermint and Spearmint Tops: Irrigation practices can be very critical to the successful use of V-10137 1 EC Herbicide in established alfalfa and peppermint and spearmint 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: Apply V-10137 1 EC Herbicide in a minimum of 10 GPA in established alfalfa and peppermint and spearmint when applying by air.

Annual Grass Control: Apply V-10137 1 EC Herbicide at the grass sizes indicated in the Directions for Annual Grass Table and rates indicated. If a grass has been cut, apply V-10137 1 EC Herbicide after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/peppermint and spearmint canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring- and summergerminating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to V-10137 1 EC Herbicide may vary from region to region. Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule spray spring and summer germinating grasses as early in the season as possible, after initial green-up. Spray fall -germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, including frost, slower plant growth or the onset of flowering.

Perennial Grass Control: V-10137 1 EC Herbicide effectively controls perennial grasses including 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 including established alfalfa or peppermint and spearmint. 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.

DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES CANOLA, FLAX, LEGUME VEGETABLES (DRY AND SUCCULENT), MUSTARD SEED, SOYBEAN, SUGAR BEET AND SUNFLOWER (REDUCED RATE DIRECTIONS NOT FOR USE IN CALIFORNIA)

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

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	RATE FL OZ/ ACRE ⁽¹⁾
Barnyardgrass	Echinochloa crus-galli	1 to 4	6 (0.045 lb ai)
Broadleaf Signalgrass	Brachiaria platyphylla	1 to 4	8 (0.061 lb ai)
Crabgrass		_	
Large	Digitaria sanguinalis	1 to 3* <mark>*</mark>	6
Large	Digitaria sanguinalis	1 to 4* <mark>*</mark>	8
Smooth	Digitaria ischaemum	1 to 3* <mark>*</mark>	6
Smooth	Digitaria ischaemum	1 to 4* <mark>*</mark>	8
Southern	Digitaria ciliar	1 to 4* <mark>*</mark>	8
Fall Panicum	Panicum dichotomiflorum	1 to 4	6
Foxtail			
Giant	Setaria faberi	1 to 4	6
Green	Setaria viridis	1 to 4	6
Millet	Setaria italica	1 to 4	8
Yellow	Setaria glauca	1 to 4	6
Seedling Johnsongrass*	Sorghum halepense	1 to 6	8
Shattercane	Sorghum bicolor	4 to 10	6
Texas Panicum	Panicum texanum	1 to 4	8
Volunteer Cereals			
Barley	Hordeum vulgare	1 to 4	8
Oats	Avena sativa	1 to 4	8
Wheat	Triticum asetivum	1 to 4	8
Volunteer Corn***	Zea mays	4 to 12	6
Wild Proso Millet	Panicum miliaceum	1 to 6	6
Wild Oats	Avena fatua	1 to 4	8

*non-ACC resistant

^{*}Length of lateral growth

^{***}Not S.R. Corn

⁽¹⁾Always add a non-ionic surfactant at 0.25% v/v total spray volume unless crop specific restrictions and limitations advise otherwise.

USE DIRECTIONS FOR PERENNIAL GRASSES (ALL CROPS)

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

Restrictions

- **DO NOT** exceed the maximum per application rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR *V-10137* 1 EC Herbicide.
- DO NOT exceed the maximum yearly rate listed in Table 1, CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE.

		APPLICATION RATE		
GRASS SPECIES	WEED HEIGHT (inches)	MINIMUM RATE fl oz/A	MAXIMUM RATE fl oz/A	
Bermudagrass (Cynodon dactylon)				
First Application	3 (or up to 6" runners)	12	32	
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	(0.091 lb ai) 12	(0.242 lb ai) 32	
Fescue, Tall (Festuca arundinacea)				
First Application	4 to 8	12	32	
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32	
Foxtail Barley (<i>Hordeum jubatum</i>)				
First Application	2 to 6	12	32	
Repeat Application (if regrowth occurs)	2 to 6	12	32	
Orchardgrass (<i>Dactylis glo</i> merata)				
First Application	4 to 8	12	32	
Repeat Application(s) (if regrowth occurs)	4 to 8	12	32	
Ougakaraaa (Elutrigia ranana)				
Quackgrass (<i>Elytrigia repens</i>) First Application	4 to 12	12	32	
Repeat Application(s) (if regrowth occurs)	4 to 12	12	32	
Rhizome Johnsongrass* (Sorghum halepense)	10 to 04	12	32	
First Application Repeat Application(s) (if regrowth occurs)	12 to 24 6 to 18		32 24	
Trepeat Application(s) (il regrewiti occurs)		(0.068 lb ai)	(0.182 lb ai)	
		,	,	
Wirestem Muhly (Muhlenbergia frondosa)	445.0	40	20	
First Application Repeat Application(s) (if regrowth occurs)	4 to 8 4 to 8	12 12	32 32	
Repeat Application(s) (il regrowth occurs)	4 10 0	12	32	
Perennial Bluegrass				
[Roughstalk (Poatrivialis)]				
[Kentucky (Poa prantensis)]	2 to 4	12	32	
First Application Repeat Application(s)	2 to 4 2 to 4	12	32 32	
r open reprioritorito)	2.0 -	12		
Bentgrass (Agrostis spp.)				
First Application	2 to 4	-	32	
Repeat Application(s) (if regrowth occurs)	2 to 4	-	32	

*non-ACC resistant

USE DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH V-10137 1 EC HERBICIDE

		ALL CROPS		
			APPLICATIO	N RATES
GRASS SPECIES		WEED STAGE	MINIMUM RATE fl oz/A	MAXIMUM RATE fl oz/A
Annual Bluegrass annua)	(Poa	to 4-leaf	12* (0.091 lb ai)	**

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.

See Table 1 for crop specific adjuvant rates.

*Use a minimum of 17 fl oz/A (0.129 lb ai/A) to control annual bluegrass in seedling and established alfalfa, peppermint and spearmint.

**See Special Use Instructions and Restrictions in Table 1, CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC Herbicide, for maximum application rates.

ΔP	PI I	ICA	TIO	N R	ATES

GRASS SPECIES	WEED SIZE (inches)	Rate when applied alone or with glyphosate
Field Corn	Up to 12	6 fl oz/A (0.0455 lb ai/A)

For control of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn.

Care must be taken to avoid in field boom (spray) overlaps or excessive crop injury may occur.

Replant no sooner than 6 days after application.

Adjuvant rates: Non-ionic Surfactant (NIS) at 0.25% v/v plus AMS at 2.5 to 4 lb/A.

Restriction: DO NOT use a COC or MSO with *V10137* 1 EC Herbicide in this use pattern.

TANK MIX - LABEL INFORMATION

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture, including all crop rotational and other crop restrictions. Those concerns may include, but are not limited to:

- 1. Geographic restrictions all products are not registered for use in all areas and rates may vary from one region of labeled use to another;
- 2. Crop rotation restrictions;
- 3. Applicator certification requirements;
- 4. Worker safety rules (e.g. protective clothing, reentry time, posting);
- 5. Soil type or soil characteristics (e.g. pH, OM);
- 6. Maximum dosage or number of applications per year;
- 7. Rain free period required; or
- 8. Application timing (e.g. pre-harvest interval)
- 9. **Restriction: DO NOT** exceed the total yearly rates.

TANK MIX APPLICATION OF V-10137 1 EC HERBICIDE AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at specified height or growth stage listed on each label.
- Apply when the first grass or broadleaf weed species in a mixed population reaches the specified height or growth stage for treatment.
- Apply under favorable soil moisture and humidity that exist a few days after rainfall or within seven days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the labeled rate for each specific tank mix combination.
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop injury
 as compared to either product used alone. If regrowth occurs, or an additional flush of new grass emerges,
 make a second application of V-10137 1 EC Herbicide, as specified in the respective size and rate tables.
- **Restriction: DO NOT** tank mix V-10137 1 EC Herbicide when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. While agitating, add the correct amount of V-10137 1 EC Herbicide. Agitation will create a rippling or rolling action on the water surface.
- 3. If tank mixing V-10137 1 EC Herbicide 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.
- 4. Add any required adjuvants (crop oil concentrate, non-ionic surfactant and/or nitrogen solution).
- 5. Fill spray tank to desired level with water. Continue to agitate 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 with a jar test.

INFORMATION ON ANTAGONISM

Tank mixes of V-10137 1 EC Herbicide with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when V-10137 1 EC Herbicide is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA

Table 2. V-10137 1 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA

(Refer to the use directions tables above for specific grasses and growth stages.)

APPLICATION RATES/ACRE(2)		SPRAY ADDITIVES						
PRODUCT ⁽¹⁾	ANNUAL	PERENNIAL	GROUND APPLICATION		PERENNIAL GROUND APPLICATION APPLICATION APPLICATION		AIR APPLICATIO	ON
	GRASSES	GRASSES	Adjuvant Rates	AMS	Adjuvant Rates	AMS		
V-10137 1 EC Herbicide + 2,4-DB ⁽³⁾	12 to 32fl oz (0.091 to 0.242 lb ai) + Refer to 2,4-DB label	16 to 32 fl oz (0.121 to 0.242 lb ai) + Refer to 2,4-DB label	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution		
V-10137 1 EC Herbicide + Pursuit® DG ⁽⁴⁾ (imazethapyr) or Pursuit ⁽⁴⁾ (imazethapyr)	12 to 32 fl oz (0.091 to 0.242 lb ai) + Refer to Pursuit DG or Pursuit labels for use rates	-	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution		
V-10137 1 EC Herbicide + Buctril® 2L ⁽⁵⁾ (bromoxynil)	12 to 32 fl oz (0.091 to 0.242 lb ai) + Refer to Buctril 2L label for use rate.	-	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution		
V-10137 1 EC Herbicide + Raptor® (imazamox)	12 to 32 fl oz (0.091 to 0.242 lb ai) + Refer to Raptor label for use rate.	-	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution		

- Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not advised in these situations.
- (2) If grass regrowth occurs or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate prescribed.
- (3) V-10137 1 EC Herbicide plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will generally outgrow this temporary crop injury within a few weeks.
- 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.
 - Restriction: DO NOT feed, graze or harvest alfalfa for 30 days following an application of Pursuit to alfalfa.
- (5) In the states of Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada and the western halves of North Dakota, South Dakota, Nebraska and Kansas: The V-10137 1 EC Herbicide plus Buctril tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliates. Unacceptable crop injury may occur to alfalfa seedlings less than the 2 trifoliate leaf stage.
- (6) V-10137 1 EC Herbicide plus Buctril applications made when temperatures are expected to exceed 80°F at and 3 days following application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When alfalfa stand is uneven and conditions favor leaf burn, unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. V-10137 1 EC Herbicide plus Buctril applications made when temperatures are expected to exceed 70°F at and 3 days following application can result in unacceptable crop injury. Crop leaf burn can occur following V-10137 1 EC Herbicide plus Buctril application. Warm, humid conditions may enhance leaf burn. New crop growth will not be affected.
- (7) Restriction: **DO NOT** apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.

USE DIRECTIONS FOR BUSHBERRY, CANEBERRY, POME FRUIT AND STONE FRUIT

Apply V-10137 1 EC Herbicide postemergence to actively growing grasses according to prescribed rates in Table 1, Crop Specific Use Directions and Restrictions for *V-10137* 1 EC Herbicide. Crop injury to bushberry, caneberry, pome fruit and stone fruit can occur if V-10137 1 EC Herbicide is improperly applied. V-10137 1 EC Herbicide must not be applied directly over the top of these plant types. Instead, spray must be directed at the base of the plant where grassy weeds are growing near the ground.

Restriction: DO NOT apply V-10137 1 EC Herbicide to bushberry, caneberry, pome fruit or stone fruit grown for root stock.

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following V-10137 1 EC Herbicide application.

CANOLA (EXCEPT FLAX)

[Rapeseed Subgroup 20A (except flax seed, mustard seed and sesame seed)]
Table 3. REDUCED RATE V-10137 1 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES
(Refer to the use directions tables above for specific grasses and growth stages.)

PRODUCT	APPLICATION RATES/ACRE ANNUAL	ADJUVANT RATES	AMMONIUM SULFATE	
	GRASSES ⁽¹⁾		GROUND	AIR
V-10137 1 EC ⁽²⁾	8 to 10 fl oz			
Herbicide	(0.061 to 0.076 lb ai)			
+	+	NIS at 0.25% v/v	3 lb/A	3 lb/A
Liberty ^{®(3)}			3 10/7	3 10/A
(glufosinate)	Refer to Liberty label			
	for use rate.			
V-10137 1 EC ⁽²⁾	8 to 10 fl oz			
Herbicide	(0.061 to 0.076 lb ai)			
+	+	NIS at 0.25% v/v	3 lb/A	3 lb/A
Stinger ^{®(4)}		1415 at 0.25 /6 V/V	J ID/A	3 ID/A
(clopyralid)	Refer to Stinger label			
,	for use rate.			

Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.

Restriction: DO NOT apply V-10137 1 EC Herbicide tank mix during or after bolting or flowering or crop injury will occur.

⁽³⁾ For use only on Liberty Link Canola.

⁽⁴⁾ See Stinger label for weeds controlled.

COTTON (Including cotton grown for seed)

Table 4. V-10137 1 EC HERBICIDE TANK MIXED WITH COBRA HERBICIDE AND MSMA APPLIED POST DIRECTED TO COTTON

FOST DIRECTED I			CROP OIL	
PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE(2)		CONCENTRATE ⁽³⁾ V/V	SPECIFIC USE INSTRUCTIONS
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	INSTRUCTIONS
V-10137 1 EC ⁽⁴⁾ Herbicide	12 to 16 fl oz (0.091 to 0.121 lb ai)	16 to 32 fl oz (0.121 to 0.242 lb ai)	1%	Reduce broadcast rate in proportion to the
+ Cobra (lactofen) +	See Cobra Herbicide and height limitations Herbicide label for we	band area actually treated.		
MSMA (4 lb/gal) or MSMA (6.6 lb/gal)	See MSMA label for limitations for cotton. for weed height and s			

- (1) Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not advised in these situations.
- ⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate prescribed.
- (3) Always use a crop oil concentrate at the listed rate (but not less than 1 pt/A) in the finished spray volume.
- (4) If at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control may result and a second (non-post directed) application of V-10137 1 EC Herbicide may be necessary.

Table 5. V-10137 1 EC HERBICIDE TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON AS A BROADCAST APPLICATION

	APPLICATION	RATE/ACRE(1)	ADJUV	ANT	
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built in adjuvant	Glyphosate formulation without built in adjuvant	SPECIFIC USE INSTRUCTIONS
V-10137 1 EC Herbicide + glyphosate	9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	Ammonium sulfate at 8.5 to 17 lb per 100 gals of carrier	Ammonium sulfate at 8.5 to 17 lb per	See charts for grasses controlled.
g.yp.1000.to	See glyphosate labe broadleaf weeds and for cotton.	el for rates to control d height limitations	plus glyphosate label adjuvant specification.	100 gals of carrier plus Non-ionic Surfactant (NIS) at 0.25% v/v.	Use a minimum of 10 gals of spray solution per acre.

⁽¹⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide at the prescribed rate with the appropriate amount of crop oil.

DRY AND SUCCULENT SHELLED BEANS

[Succulent Shelled Pea and Bean Subgroup 6B] [Dried Shelled Pea and Bean (except Soybean 6C]

Table 6. V-10137 1 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY AND SUCCULENT SHELLED BEANS

(Refer to the use directions tables above for specific grasses and growth stages.)

	APPLICATION	APPLICATION RATES/ACRE(2)		ADJUVANT	
PRODUCT ⁽¹⁾	ANNUAL	PERENNIAL	7,500 77,111		
	GRASSES	GRASSES	GROUND	AIR	
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	COC at 1% v/v	COC at 1% v/v	
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	+	+	
+	+	+	AMS at 2.5 lb/A	AMS at 17	
Basagran®	Refer to Basagran	Refer to Basagran		lb/100 gal v/v	
(bentazon)	label for use rate.	label for use rate.			
V-10137 1 EC	9 to 12 fl oz		NIS at 0.25%	NIS at 0.25%	
Herbicide	(0.068 to 0.091 lb ai)		v/v	v/v	
+	+	-	+	+	
Raptor	Refer to Raptor		AMS at 2.5 lb/A	AMS at 17	
(imazamox)	label for use rate.			lb/100 gal	

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

⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate prescribed.

FLAX

Table 7. REDUCED RATE V-10137 1 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR FLAX

(Refer to the use directions tables above for specific grasses and growth stages.)

PRODUCT	APPLICATION RATES/ACRE	ADJU	JVANT
PRODUCT	ANNUAL GRASSES ⁽¹⁾	GROUND	AIR
V-10137 1 EC Herbicide + Bronate Advanced™(2, 3) (bromoxynil)	6 to 9 fl oz (0.045 to 0.068 lb ai) + Refer to Bronate Advanced label for use rate.	AMS at 2.4 to 4.0 lb/A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lb/A
V-10137 1 EC Herbicide + Bronate Advanced (2, 3) (bromoxynil)	6 to 9 fl oz (0.045 to 0.068 lb ai) + Refer to Bronate Advanced label for use rate.	AMS at 2.4 to 4.0 lb/A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lb/A
V-10137 1 EC Herbicide + Buctril ^(2, 3) (bromoxynil)	6 to 9 fl oz (0.045 to 0.068 lb ai) + Refer to Buctril label for use rate.	AMS at 2.4 to 4.0 lb/A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lb/A
V-10137 1 EC Herbicide + MCPA ^(2, 3)	8 to 10 fl oz (0.061 to 0.076 lb ai) + Refer to MCPA label for use rate.	AMS at 2.4 to 4.0 lb/A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lb/A
V-10137 1 EC Herbicide + Curtail® M ^(2, 3) (clopyralid)	6 to 9 fl oz (0.045 to 0.068 lb ai) + Refer to Curtail M label for use rate.	AMS at 2.4 to 4.0 lb/A + NIS at 0.125% v/v	AMS at 2.5 to 4.0 lb/A

Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.

Restriction: DO NOT apply V-10137 1 EC Herbicide tank mix during or after the bud stage or to ornamental flax or crop injury may occur.

Restriction: DO NOT apply tank mixes if temperatures are expected to exceed 85°F at (or 3 days following) application or crop injury may occur.

PEANUT
Table 8. V-10137 1 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (Refer to the use directions tables above for specific grasses and growth stages.)

PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾	ADJUVANT RATES		
	ANNUAL GRASSES	GROUND	AIR	
V-10137 1 EC Herbicide + Basagran (bentazon)	9 to 16 fl oz (0.068 to 0.121 lb ai) + Refer to Basagran label for use rate.	COC at 1% v/v + AMS at 2.5 lb/A	COC at 1% v/v + AMS at 17 lb/100 gals	
V-10137 1 ÉC Herbicide + Ultra Blazer® (Sodium acifluorfen)	9 to 16 fl oz (0.068 to 0.121 lb ai) + Refer to Ultra Blazer label for use rate.	COC at 1% v/v + AMS at 2.5 lb/A	COC at 1% v/v + AMS at 17 lb/100 gals	

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

⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate prescribed.

USE DIRECTIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH V-10137 1 EC HERBICIDE						
GRASS SPECIES	WEED STAGE	STAGE APPLICATION RATE fl oz/A				
Annual and perennial grasses that exceed height claimed for control on height charts "DIRECTIONS FOR ANNUAL GRASSES" and "DIRECTIONS FOR PERENNIAL GRASSES"	Up to and including grasses in the seed head stage	32 (0.242 lb ai)	64 (0.485 lb ai)			

Restriction: DO NOT apply as part of a tank mix when applying V-10137 1 EC Herbicide for grass suppression.

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

SOYBEAN

Table 9. V-10137 1 EC Herbicide TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN

(Refer to the use directions tables above for specific volunteer corn sizes and use rates.)

	WEED SIZE AND APPLICATION RATES		SPRAY ADDITIVES				
PROPUST	PRODUCT VOLUNTEER VANA		GROUND AF	PPLICATION	AIR APPLICATION		
PRODUCT	CORN HEIGHT (inches)	V-10137 1 EC HERBICIDE RATES/ACRE	NIS	AMS	NIS	AMS	
V-10137 1 EC Herbicide + glyphosate ^(1,2,3) Refer to glyphosate label for use rate. (Roundup Ready soybeans only)	Up to 12 Up to 24 Up to 36	6 fl oz (0.045 lb ai) 9 fl oz (0.068 lb ai) 12 fl oz (0.091 lb ai)	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lb/100 gals of spray solution	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lb/100 gals of spray solution	
V-10137 1 EC Herbicide + Firstrate® (cloransulam) Refer to Firstrate label for use rate.	Up to 12 Up to 24 Up to 36	6 fl oz (0.045 lb ai) 9 fl oz (0.068 lb ai) 12 fl oz (0.091 lb ai)	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution	
V-10137 1 EC Herbicide + Pursuit 70 DG (imazethapyr) Refer to Pursuit 70 DG label for use rate.	Up to 12 Up to 24 Up to 36	6 fl oz (0.045 lb ai) 9 fl oz (0.068 lb ai) 12 fl oz (0.091 lb ai)	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution	
V-10137 1 EC Herbicide + Raptor (imazamox) Refer to Raptor label for use rate.	Up to 12 Up to 24 Up to 36	6 fl oz (0.045 lb ai) 9 fl oz (0.068 lb ai) 12 fl oz (0.091 lb ai)	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solutions	

This tank mix may be applied postemergence to Roundup Ready soybeans up through the full flowering stage. **Restriction: DO NOT** apply less than 60 days before harvest.

Avoid contact with foliage, green stems or fruit crops or any desirable plants and trees, other than soybeans with the Roundup Ready gene as severe plant injury or death will result.

⁽³⁾ **Restriction: DO NOT** allow the V-10137 1 EC Herbicide plus glyphosate to mist, drip, drift or splash onto desirable vegetation as minute quantities of the tank mix can cause severe damage or destruction to the crops, plants or other areas on which treatment was not intended. The likelihood of injury occurring from drift of this product is greatest when winds are gusty or in excess of 5 miles per hour. Even under lesser wind velocities, avoid conditions that allow spray drift to occur including combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to drift.

(Refer to the use directions tables above for specific grasses and growth stages.)

	APPLICATION RATES/ACRE ⁽²⁾	SPRAY ADDITIVE RATES				
PRODUCT ⁽¹⁾	ANNUAL	GROUND APF	PLICATION	AIR APPLIC	ATION	
	GRASSES(3)	COC/NIS ⁽⁴⁾	AMS	COC/NIS ⁽⁴⁾	AMS	
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals	
Herbicide	(0.068 to 0.151 lb ai)	v/v plus COC at	lb/A	plus COC at 0.25%	of spray	
+	+	0.25% v/v		v/v	solution	
Cobra	Refer to Cobra label	or		or		
(lactofen)	for use rate.	COC at		COC 1% v/v (but not		
V-10137 1 EC	9 to 20 fl. oz	1 to 2 pt/A NIS at 0.25%	AMS at 2.5	less than 1 pt/A) NIS at 0.25% v/v	17 lb/100 gals	
Herbicide	(0.068 to 0.151 lb ai)	V/V	Ib/A	or	of spray	
+	+	or	15// (COC at 1% v/v	solution	
Firstrate ⁽⁵⁾	Refer to Firstrate	COC at 1 pt/A		(but not less than		
(cloransulam)	label for use rate.	-		1 pt/A)		
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% plus	17 lb/100 gals	
Herbicide	(0.068 to 0.151 lb ai)	v/v plus COC at	lb/A	COC at 0.25% v/v	of spray	
+ Flexstar® HL ⁽⁵⁾	Refer to the Flexstar	0.25% v/v or		or COC at 1% v/v	solution	
(fomesafen)	HL label for use rate.	COC at 1to 2		(but not less than		
(lolllesalell)	The label for use rate.	pt/A		1 pt/A)		
V-10137 1 EC	9 to 12 fl oz	Nis at 0.125 to	AMS at 2.5	1 . ,		
Herbicide	(0.068 to 0.091 lb ai)	0.25% v/v	Ib/A			
+	+			_	_	
Harmony® GT XP ⁽⁵⁾	Refer to Harmony					
(thifensulfuron)	GT XP label for use rate.					
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% plus	17 lb/100 gals	
Herbicide	(0.068 to 0.151 lb ai)	v/v plus COC at	Ib/A	COC at 0.25% v/v	of spray	
+	+	0.125 to 0.25%		or	solution	
Phoenix™	Refer to Phoenix	v/v		COC at 1% v/v		
(lactofen)	label for use rate.	or		(but not less than		
V-10137 1 EC	12 to 20 fl oz	COC at 1 pt/A NIS at 0.25%	AMS at 2.5	1 pt/A) NIS at 0.25% v/v	17 lb/100 gals	
Herbicide	(0.091 to 0.151 lb ai)	V/V	Ib/A	or	of spray	
+	+	or	,	COC at 1% v/v	solution	
Pursuit 70 DG ⁽⁵⁾	Refer to Pursuit 70	COC at 1 pt/A		(but not less than		
(imazethapyr)	DG label for use			1 pt/A)		
V 40407.4.F0	rate.	NIIO 1 0 050/	AN40 105	NIIO 10050/ /	47 11 /400	
V-10137 1 EC Herbicide	12 to 20 fl oz (0.091 to 0.151 lb ai)	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v or	17 lb/100 gals of spray	
†	(0.091 to 0.131 ib ai)	or	ID/A	COC at 1% v/v	solution	
Raptor (1 AS) (5)	Refer to Raptor label	COC at 1 pt/A		(but not less than	COIGHOIT	
(imazamox)	for use rate.			` 1 pt/A)		
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5			
Herbicide	(0.068 to 0.151 lb ai)	v/v plus COC at	lb/A			
+	+ D-ft- D	0.25% v/v		_	-	
Resource® (flumiclorac)	Refer to Resource label for use rate.	or COC at				
(numiciorac)	label for use fale.	1 to 2 pt/A				
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals	
Herbicide	(0.068 to 0.151 lb ai)	v/v plus COC at	Ib/A	plus COC at 0.25%	of spray	
+	+	0.25% v/v		V/V	solution	
Cobra	Refer to Cobra label	or		or		
(lactofen)	for use rate.	COC at 1to 2		COC at 1% v/v		
+ Firstrate ⁽⁵⁾	+ Refer to Firstrate	pt/A		(but not less than		
(cloansulam)	label use rate.			1 pt/A)		
(oloalisulatti)	ומטטו מטט ומנט.			1	(Continued)	

(Refer to the use directions tables above for specific grasses and growth stages.)

(Refer to the use dire	APPLICATION	ioi specific gras			
DD0DU0T(1)	RATES/ACRE ⁽²⁾		SPRAY A	DDITIVE RATES	
PRODUCT ⁽¹⁾	ANNUAL	GROUND APP	PLICATION	AIR APPLIC	CATION
	GRASSES(3)	COC/NIS(4)	AMS	COC/NIS(4)	AMS
V-10137 1 EC Herbicide + Cobra (lactofen)	9 to 12 fl oz (0.068 to 0.091 lb ai) + Refer to Cobra label for use rate.	NIS at 0.125 to 0.25% v/v plus COC at 0.125% v/v	AMS at 2.5 lb/A	-	-
Harmony GT XP ⁽⁵⁾ (thifensulfuron)	+ Refer to Harmony GT XP label for use rate.				
V-10137 1 EC Herbicide + Cobra (lactofen) + Pursuit 70 DG ⁽⁵⁾ (imazethapyr)	12 to 20 fl oz (0.091 to 0.151 lb ai) + Refer to Cobra label for use rate. + Refer to Pursuit 70 DG label for use	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
V-10137 1 EC Herbicide + Cobra (lactofen) + Raptor (1 AS) ⁽⁵⁾ (imazamox)	rate. 12 to 20 fl oz (0.091 to 0.151 lb ai) + Refer to Cobra label for use rate. + Refer to Raptor (1 AS) label for use rate.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
V-10137 1 EC Herbicide + Cobra (lactofen) + Resource (flumiclorac)	9 to 20 fl oz (0.068 to 0.151 lb ai) + Refer to Cobra label for use rate. + Refer to Resource label for use rate.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1to 2 pt/A	AMS at 2.5 lb/A	-	-
V-10137 1 EC Herbicide + Firstrate (cloransulam) + Flexstar HL ⁽⁵⁾ (fomesafen)	9 to 20 fl oz (0.068 to 0.151 lb ai) + Refer to Firstrate and Flexstar HL labels for use rates.	NIS at 0.25% v/v plus COC at 0.25% v/v or Equivalent blended product or COC at 1to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution

(Refer to the use directions tables above for specific grasses and growth stages.)

(120101 to the use diff	(Refer to the use directions tables above for specific grasses and growth stages.) APPLICATION APPLICATION						
(1)	RATES/ACRE(2)		SPRAY A	DDITIVE RATES			
PRODUCT ⁽¹⁾	ANNUAL	GROUND APP	PLICATION	AIR APPLIC	CATION		
	GRASSES(3)	COC/NIS(4)	AMS	COC/NIS(4)	AMS		
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals		
Herbicide	(0.091 to 0.151 lb ai)	v/v plus COC at	lb/A	plus COC at 0.25%	of spray		
+	+	0.125 to 0.25%		v/v	solution		
Phoenix (lactofen)	Refer to Phoenix label for use rate.	v/v or		or COC at 1% v/v			
(lactolett)	label for use rate.	COC at 1 pt/A		(but not less than			
+		000 41 1 2471		1 pt/A)			
Firstrate ⁽⁵⁾				1 . ,			
(cloransulam)	+						
	Refer to Firstrate						
V 40427.4 FO	label for use rate.	NIC -+ 0 050/	AMC -+ 0.5	NUC -+ O OFO/ w/w	47 lb/400 mala		
V-10137 1 EC Herbicide	16 to 20 fl oz (0.121 to 0.151 lb ai)	NIS at 0.25% v/v plus COC at	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25%	17 lb/100 gals of spray		
+	(0.121 to 0.131 ib ai)	0.125 to 0.25%	ID/A	V/V	solution		
Phoenix	Refer to Phoenix	V/V		or	Coldion		
(lactofen)	label for use rate.	or		COC at 1% v/v			
+		COC at 1 pt/A		(but not less than			
Pursuit 70 DG ⁽⁵⁾	+			1 pt/A)			
(imazethapyr)	Refer to Pursuit 70 DG label for use						
	rate.						
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals		
Herbicide	(0.091 to 0.151 lb ai)	v/v plus COC at	lb/A	plus COC at 0.25%	of spray		
+	+	0.125 to 0.25%		v/v	solution		
Phoenix	Refer to Phoenix	V/V		or			
(lactofen)	label for use rate.	or COC at 1 pt/A		COC at 1% v/v (but not less than			
+	+	000 at 1 pt/A		1 pt/A)			
Raptor (1 AS) ⁽⁵⁾	Refer to Raptor						
(imazamox)	(1 AS) label for use						
	rate.						
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5				
Herbicide +	(0.068 to 0.151 lb ai)	v/v plus COC at 0.125 to 0.25%	lb/A				
Phoenix	Refer to Phoenix	V/V					
(lactofen)	label for use rate.	or					
,		COC at 1 pt/A		-	-		
+	+						
Resource	Refer to Resource						
(flumiclorac)	label for use rate.						
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5				
Herbicide	(0.091 to 0.151 lb ai)	v/v plus COC at	lb/A				
+ Possures	Pofor to Docarras	0.25% v/v					
Resource (lactofen)	Refer to Resource label for use rate.	or COC at					
(180101611)	iabei ioi use iale.	1 to 2 pt/A		-	-		
+	+	1 10 2 pu/ (
Pursuit 70 DG ⁽⁵⁾	Refer to Pursuit 70						
(imazethapyr)	DG label for use						
	rate.						

(Refer to the use directions tables above for specific grasses and growth stages.)

(Refer to the use directions tables above for specific grasses and growth stages.)							
PRODUCT ⁽¹⁾	APPLICATION RATES/ACRE ⁽²⁾		SPRAY A	DDITIVE RATES			
PRODUCT	ANNUAL	GROUND APP	PLICATION	AIR APPLIC	ATION		
	GRASSES(3)	COC/NIS(4)	AMS	COC/NIS(4)	AMS		
V-10137 1 EC Herbicide +	12 to 20 fl oz (0.091 to 0.151 lb ai) +	NIS at 0.25% v/v or	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than	17 lb/100 gals of spray solution		
Synchrony XP (mp) ⁽⁵⁾ (chlorimuron + thifensulfuron)	Refer to Synchrony XP (mp) label for use rate.	COC at 1 pt/A		1 pt/A)			
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals		
Herbicide	(0.091 to 0.151 lb ai)	v/v or	lb/A	or	of spray		
+	+	COC at 1 pt/A		COC at 1% v/v	solution		
Synchrony XP (mp) ⁽⁵⁾	Refer to Synchrony			(but not less than			
(STS Soybeans Only) (chlorimuron +	XP (mp) (STS			1 pt/A)			
thifensulfuron)	Soybeans Only) label for use rate.						
V-10137 1 EC	9 to 12 fl oz	NIS at 0.25%	AMS at 2.5				
Herbicide	(0.068 to 0.091 lb ai)	v/v plus COC at	lb/A				
+	+	0.25% v/v	•				
Cobra	Refer to Cobra label	or					
(lactofen)	for use rate.	COC at					
		1 to 2 pt/A					
+	+			-	-		
Resource (flumiclorac)	Refer to Resource						
(iluitilolorac)	label for use rate.						
+	laborior doo rato.						
Firstrate ⁽⁵⁾	+						
(cloransulam)	Refer to Firstrate						
	label for use rate.						
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals		
Herbicide +	(0.091 to 0.151 lb ai) +	v/v plus COC at 0.25% v/v	lb/A	plus COC at 0.25% v/v	of spray solution		
Cobra	Refer to Cobra label	or		or			
(lactofen)	for use rate.	COC at		COC at 1% v/v			
_	Refer to Synchrony	1 to 2 pt/A		(but not less than 1 pt/A)			
Synchrony XP (mp) ⁽⁵⁾	XP (mp) label for			i pun)			
(chlorimuron +	use rate.						
thifensulfuron)							
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals		
Herbicide	(0.091 to 0.151 lb ai)	v/v plus COC at	lb/A	plus COC at 0.25%	of spray		
+	+	0.25% v/v		v/v	solution		
Cobra	Refer to Cobra label	or		or			
(lactofen)	for use rate.	COC at 1 to 2 pt/A		COC at 1% v/v (but not less than			
+	+	1 to 2 pt/A		1 pt/A)			
Synchrony XP (mp) ⁽⁵⁾	Refer to Synchrony			, 5477)			
(STS Soybeans Only)	XP (mp) (STS						
(chlorimuron +	Soybeans Only)						
thifensulfuron)	label for use rate.						

(Refer to the use directions tables above for specific grasses and growth stages.)

(Refer to the use dire	ections tables above	Tor specific gras	sses and grov	wtn stages.)		
DD0DU0T(1)	APPLICATION RATES/ACRE ⁽²⁾	SPRAY ADDITIVE RATES				
PRODUCT ⁽¹⁾	ANNUAL	GROUND API	PLICATION	AIR APPLIC	CATION	
	GRASSES(3)	COC/NIS(4)	AMS	COC/NIS(4)	AMS	
V-10137 1 EC	9 to 20 fl oz	NIS at 0.25%	AMS at 2.5			
Herbicide +	(0.068 to 0.151 lb ai) +	v/v plus COC at 0.125 to 0.25%	lb/A			
Phoenix	Refer to Phoenix	v/v				
(lactofen)	label for use rate.	or				
,		COC at 1 pt/A				
+	+	·		-	-	
Resource	Refer to Resource					
(flumiclorac)	label for use rate.					
+	+					
Firstrate ⁽⁵⁾	Refer to Firstrate					
(cloransulam)	label for use rates.					
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals	
Herbicide	(0.091 to 0.151 lb ai)	v/v plus COC at	lb/A	plus COC at 0.25%	of spray	
+	+	0.125 to 0.25%		v/v	solution	
Phoenix	Refer to Phoenix	v/v		or		
(lactofen)	label for use rate.	or		COC at 1% v/v		
		COC at 1 pt/A		(but not less than		
+	+			1 pt/A)		
Synchrony XP (mp) ⁽⁵⁾	Refer to Synchrony					
(chlorimuron +	XP (mp) label for					
thifensulfuron)	use rate.	NIO 10.0501	ANAO 105	NIO 10050/ /	47 11 (400 1	
V-10137 1 EC	12 to 20 fl oz	NIS at 0.25%	AMS at 2.5	NIS at 0.25% v/v	17 lb/100 gals	
Herbicide	(0.091 to 0.151 lb ai)	v/v plus COC at	lb/A	plus COC at 0.25%	of spray	
+ Dhaaniy	Refer to Phoenix	0.125 to 0.25%		V/V	solution	
Phoenix	label for use rate.	V/V		or COC at 1% v/v		
(lactofen)		or				
_	Refer to Synchrony	COC at 1 pt/A		(but not less than 1 pt/A)		
Synchrony XP (mp) ⁽⁵⁾	XP (mp) (STS			ι ρυΔ)		
(STS Soybeans Only)	Soybeans Only)					
(chlorimuron +	label for use rate.					
thifensulfuron)	iddol for doo rate.					
					1	

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

⁽²⁾ If grass regrowth occurs or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate prescribed.

Annual grasses and sizes controlled with these tank mixtures are those that are identified in the **DIRECTIONS FOR ANNUAL GRASSES** table.

⁽⁴⁾ Contact local Valent U.S.A. representative for proper COC/NIS adjuvant selection.

⁽⁵⁾ Refer to Firstrate, Flexstar HL, Harmony GT XP, Pursuit DG, Raptor and Synchrony XP (mp) for geographic and rotational restrictions.

SUGAR BEET

Table 11. V-10137 1 EC HERBICIDE TANK MIXED WITH BROADLEAF SUGAR BEET HERBICIDES

PRODUCTS	APPLICATION RATES/A	ADJUVANT INFORMATION
V-10137 1 EC	9 to 12 fl oz	
Herbicide	(0.068 to 0.091 lb ai)	
+		
Betamix [®] (desmedipham +	Refer to label for use rate.	None required
phenmedipham)		
or		
Betanex® (desmedipham)	Refer to label for use rate.	None required
or		
Progress [®] (desmedipham +	Refer to label for use rate.	None required
phenmedipham + ethofumesate)		
and/or		
Stinger (clopyralid)	Refer to label for use rate.	See below
and/or		
Upbeet® (triflusulfuron methyl)	Refer to label for use rate.	See below
NIS at 0.25% unless Betamix, Beta	nex or Progress is in the tank, then u	ise no adjuvant.

TABLE 12. V-10137 1 EC HERBICIDE PLUS BETANEX OR BETAMIX TANK MIX FOR THREE SEQUENTIAL APPLICATIONS FOR ANNUAL GRASS CONTROL (MICRO RATE APPLICATION)

PRODUCT	APPLICATION RATES/ACRE ⁽¹⁾	GRASSES CONTROLLED	METHYLATED SEED OIL ⁽²⁾		
	ANNUAL GRASSES	(inches)	GROUND	AIR	
V-10137 1 EC Herbicide + Betanex (desmedipham) or Betamix (desmedipham + phenmedipham) or Progress (desmedipham + phenmedipham + ethofumesate) or Stinger (clopyralid) or UpBeet (triflusulfuron methyl)	3 to 6 fl oz (0.023 to 0.045 lb ai) + Refer to label for use rate. or Refer to label for use rate.	Green Foxtail (1 to 2) Yellow Foxtail (1 to 2) Barnyardgrass (1 to 2) Wild Oat (1 to 2) Volunteer Cereals (1 to 2)	1.5% v/v	1.5% v/v	

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

Directions for Use for Micro-Rate Applications to Sugar Beet

Multiple micro-rate applications of V-10137 1 EC Herbicide in tank mixtures with reduced rates of Betanex or Betamix and methylated seed oils may be applied by air or ground equipment to sugar beet to control early germinating annual grasses listed above. All use precautions and restrictions on the Betanex and Betamix master labels must be followed.

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

Table 13. TANK MIX APPLICATION OF V-10137 1 EC HERBICIDE AND FUNGICIDES FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGAR BEET

	APPLICATION I	APPLICATION RATES/ACRE(2)		
PRODUCT ⁽¹⁾	ANNUAL GRASSES	PERENNIAL GRASSES	ADJUVANT	
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz		
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)		
+	+	+	NIS at 0.25% v/v	
Eminent [®]	Refer to Eminent label	Refer to Eminent		
(tetraconazole)	for use rate.	label for use rate.		
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz		
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)		
+	+	+	NIS at 0.25% v/v	
Headline [®]	Refer to Headline	Refer to Headline		
(pyraclostrobin)	label for use rate.	label for use rate.		
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz		
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)		
+	+	+	NIS at 0.25% v/v	
Gem™	Refer to Gem label for	Refer to Gem label		
(trifloxystrobin)	use rate.	for use rate.		

⁽¹⁾ Refer to V-10137 1 EC Herbicide and fungicide label for rates and weeds and diseases controlled.
(2) If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without

a tank mix fungicide) according to the appropriate size and rate prescribed.

Table 14. TANK MIX APPLICATION OF V-10137 1 EC HERBICIDE AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, PEPPERMINT AND SPEARMINT TOPS, PEANUT

(INCLUDING PERENNIAL), SOYBEAN AND SUNFLOWER

(RENNIAL), SOYBEAN A					CDC	DC		
	APPLICATION	RATES/ACRE(2)			CROPS				
PRODUCT ⁽¹⁾	ANNUAL GRASSES	PERENNIAL GRASSES	ADJUVANT RATES	Alfalfa ⁽³⁾	Cotton	Peppermint & Spearmint Tops ^(3,4)	Peanut	Soybean	Sunflower
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%					Χ	Χ
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	v/v						
+	+	+	+						
Asana® XL	Refer to Asana XL	Refer to Asana XL	AMS at 2.5						
(esfenvalerate)	label for use rate.	label for use rate.	lb/A						
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%	Х				Χ	
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	v/v						
+	+	+	+						
Baythroid®	Refer to Baythroid	Refer to Baythroid	AMS at 2.5						
(B-cyfluthrin)	label for use rate.	label for use rate.	Ib/A						
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%		Х		Χ		
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	v/v						
+ Danitol® 2.4 EC	Refer to Danitol	Refer to Danitol	+ AMS at 2.5						
	label for use rate.	label for use rate.	Ib/A						
(fenpropathrin)	label for use rate.	label for use rate.	ID/A						
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%	Х				X	
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	V/V	^				^	
+	+	+	+						
dimethoate	Refer to dimethoate	Refer to dimethoate	AMS at 2.5						
	label for use rate.	label for use rate.	lb/A						
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%		Χ	Χ	Χ	Χ	
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	v/v						
+	+	+	+						
Orthene 97	Refer to Orthene 97	Refer to Orthene 97	AMS at 2.5						
(acephate)	labels for use rates.	labels for use rates.	lb/A						
				ļ					
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%		Χ	Х	Χ	Χ	
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	v/v						
+	+ D. f to Outle 00	+ Defeate Outlean 200	+						
Orthene 90 S	Refer to Orthene 90	Refer to Orthene 90	AMS at 2.5						
(acephate)	S label for use rate. 9 to 12 fl oz	S label for use rate.	lb/A NIS at 0.25%					~	
V-10137 1 EC Herbicide	(0.068 to 0.091 lb ai)	12 to 24 fl oz (0.091 to 0.182 lb ai)	NIS at 0.25% V/V	X				Χ	
+	(0.000 to 0.031 in al)	(0.031 to 0.102 to al)	V/V +						
Pounce®	Refer to Pounce	Refer to Pounce	AMS at 2.5						
(permethrin)	label for use rate.	label for use rate.	Ib/A						
V-10137 1 EC	9 to 12 fl oz	12 to 24 fl oz	NIS at 0.25%					Х	Х
Herbicide	(0.068 to 0.091 lb ai)	(0.091 to 0.182 lb ai)	v/v					•	
+	+	+	+						
Warrior®	Refer to Warrior	Refer to Warrior label	AMS at 2.5						
(lambda-	label for use rate.	for use rate.	lb/A						
cyhalothrin)									

- (1) Refer to V-10137 1 EC Herbicide and insecticide label for rates and weeds and insects controlled.
- ⁽²⁾ If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of V-10137 1 EC Herbicide alone (without a tank mix insecticide) according to the appropriate size and rate prescribed.
- (3) Certain insecticides may cause temporary phytotoxic symptoms on alfalfa, peppermint and spearmint foliage. Refer to the insecticide label for further information. It is suggested that prior to using any of these insecticide/herbicide tank mixtures, that a small area of the field be treated first and observations for crop injury be made prior to treating the whole field.
- (4) The V-10137 1 EC Herbicide rate is 9 to 12 fl oz/A (0.068 to 0.091 lb ai/A) for annual grass control in baby peppermint and spearmint, minimum of 12 fl oz/A (0.091 lb ai/A) for annual grass control in established peppermint and spearmint and 16 to 32 fl oz/A (0.121 to 0.242 lb ai/A) for perennial grass control.

FALLOW LAND

DIRECTIONS FOR USE

V-10137 1 EC Herbicide may be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply V-10137 1 EC Herbicide at 12 to 16 fl oz/A (0.091 to 0.121 lb ai/A) for annual grasses and 16 to 32 fl oz/A (0.121 to 0.242 lb ai/A) for perennial grasses. When both grass and broadleaf weeds are the target pest, V-10137 1 EC Herbicide may be tank mixed with 2,4-D ester for broad spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 16 fl oz/A (0.121 lb ai/A) V-10137 1 EC Herbicide rate.

Precautions

- Use a minimum spray volume of 5 gals/A for aerial applications and 15 gals/A for ground applications.
 Apply only to actively growing grasses when the first grass reaches the specified weed height as specified by the Directions for Annual and Perennial Grasses section of this label.
- Annual grasses that emerge after the V-10137 1 EC Herbicide application will not be controlled, and a second application may be necessary.
- The control of perennial grasses may require more than 1 application in non-tilled areas.

Restrictions

- **DO NOT** apply more than 32 fl oz/A (0.242 lb ai/A) V-10137 1 EC Herbicide per application.
- **DO NOT** make more than 2 applications per acre per year.
- For repeat applications make on a minimum of a 14 day interval.
- **DO NOT** apply more than 64 fl oz/A (0.485 lb ai/A) V-10137 1 EC Herbicide per year.
- DO NOT apply to grasses that have tillered, formed seedheads or exceeded specified growth stage.
- **DO NOT** use flood jet nozzles.
- DO NOT apply to drought stressed grasses.
- **DO NOT** mow area for 2 weeks prior to or after the V-10137 1 EC Herbicide application.

TABLE 15. V-10137 1 EC HERBICIDE IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

	APPLICATION RATES/ACRE(1)		ADJUVA	NT RATES
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
V-10137 1 EC	12 to 16 fl oz	16 to 32 fl oz		
Herbicide	(0.091 to 0.121 lb	(0.121 to 0.242 lb	NIS at 0.25% v/v	NIS at 0.25% v/v
+	ai)	ai)	or COC at 1%	or COC at 1%
2,4-D ester	+	+	or COC at 1%	+
or	See 2,4-D ester or	See 2,4-D ester or	AMS at 2.5 lb/A	AMS at 17 lb/100
Clarity®	Clarity labels for use	Clarity labels for use	AIVIS at 2.5 ID/A	gals
(dicamba)	rates.	rates		

⁽¹⁾ Refer to V-10137 1 EC Herbicide label for weed height and species control. Review Clarity and 2,4-D labels for crop restrictions, use rates and weeds controlled.

TABLE 16. V-10137 1 EC HERBICIDE FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

	PRODUCT	PRODUCT RATE	GRASS WEEDS CONTROLLED/SUPPRESSED		WEED STAGE
			Common Name	Scientific Name	
Ī	V-10137 1 EC	12 to 16 fl oz/A	Tall Fescue	Festuca arundinacea	4 to 6
	Herbicide	(0.091 to 0.121 lb ai/A)			inches tall
					(40 to 60%
					green-up)

Adjuvant: V-10137 1 EC Herbicide must be applied with non-ionic surfactant at 0.25% v/v, plus a spray grade ammonium sulfate at 2.5 to 4 lb/A.

Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add V-10137 1 EC Herbicide, then add non-ionic surfactant.

SPECIAL APPLICATION INSTRUCTIONS

Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring, at 40 to 60% tall fescue green-up, prior to emergence of warm-season grasses.

Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Apply using flat fan or hollow cone nozzles.

Apply only to fields that have warm-season grasses established for 2 years. Applications of V-10137 1 EC Herbicide to emerged warm-season grasses may cause injury.

NOTE: V-10137 1 EC Herbicide applications are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47 degrees Fahrenheit.

Restriction

- **DO NOT** mow area for 2 weeks after the V-10137 1 EC Herbicide application.
- DO NOT use flood jet nozzles.
- DO NOT apply to warm-season grasses grown for seed.
- DO NOT graze treated fields or feed treated forage and or hay to livestock.

TABLE 17. V-10137 1 EC HERBICIDE FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATES	SUPPRESSION	APPLICATION TIMING
V-10137 1 EC Herbicide	3 to 4 fl oz/A (0.023 to 0.03 lb ai/A)	Tall Fescue Seed-Heads (Festuca arundinacea)	(50 to 90% Tall Fescue green-up in the spring) or 3 weeks prior to dormancy in the fall.

ADJUVANT: V-10137 1 EC Herbicide must be applied with crop oil concentrate at 1 qt/A, plus a spray grade ammonium sulfate at 2.5 to 4 lb/A.

Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add

V-10137 1 EC Herbicide, then add crop oil concentrate.

Note: Use crop oil concentrate at 2 pt/A with fall applications.

SPECIAL APPLICATION INSTRUCTIONS

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

Use the higher V-10137 1 EC Herbicide rate if less tall fescue green matter is present.

Apply in a minimum of 15 to 20 gals of water per acre at a spray pressure of 40 to 60 psi at the nozzle. Apply using flat fan or hollow cone nozzles.

2,4-D ester, Tordon® 22K $^{(1)}$, Grazon® P+D $^{(2)}$ or Crossbow® $^{(3)}$ may be added to this tank mix for broadleaf control (see 2,4-D ester label for weeds controlled)

Restrictions

- **DO NOT** mow area for 2 weeks after the V-10137 1 EC Herbicide application.
- **DO NOT** use flood nozzles.
- DO NOT graze treated fields or feed treated forage and or hay to livestock

⁽¹⁾ Picloram-potassium

^{(2) 2.4-}D, triisopropanolamine salt and Picloram, triisopropanolamine salt

^{(3) 2,4-}D, butoxyethyl ester + Triclopyr, butoxyethyl ester

DIRECTIONS FOR USE IN ORNAMENTALS

ORNAMENTALS SPECIFIC DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE			
Annual Grass Use Rates Per Acre	Perennial Grass Use Rate Per Acre	Special Use Instructions	
9 to 16 fl oz (0.068 to 0.121 lb ai)	12 to 32 fl oz (0.091 to 0.242 lb ai)	For ornamental plant uses, V-10137 1 EC Herbicide can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plantings, and structure landscapes. The plants listed below have been tested for crop safety with V-10137 1 EC Herbicide. See tables with listed ornamentals (ornamental trees, ground covers, garden flowers and plants, and shrubs. Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0.25% v/v). Use of crop oil concentrate may injure flowers and foliage. For repeat application make on a minimum of a 14 day interval. Restrictions • DO NOT apply more than 64 fl oz/A (0.485 lb ai/A) per year. • For Annual Grasses: DO NOT make more than 4 applications at 16 fl oz (0.121 lb ai/A) per acre per year. DO NOT exceed 0.485 lb ai (64 fl oz) per acre per year. • For Perennial Grass: DO NOT make more than 2 applications at 32 fl oz per acre per year. DO NOT exceed 0.485 lb ai (64 fl oz) per acre per year.	

IMPORTANT

V-10137 1 EC Herbicide successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant to V-10137 1 EC 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 advised that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of V-10137 1 EC Herbicide have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a crop safety with V-10137 1 EC Herbicide applications:

ORNAMENTAL TREES			
COMMON NAME	SCIENTIFIC NAME		
Alder, Red	Alnus rubra		
Ash	Fraxinus spp.		
Basswood	Tilia spp.		
Birch, European White	Betula pendula		
Birch, River	Betula nigra		
Birch, White	Betula papyrifera		
Crabapple, Flowering	Malus halliana		
Dogwood, Flowering	Cornus florida		
Golden Chain Tree	Laburnum anagyroides		
Maples	Acer spp.		
Mulberry, White	Morus alba		
Oaks	Quercus spp.		
Olive, Wild	Elaeagnus angustifolia		
Redbud, Eastern	Cercis canadensis		
Sweet Gum, American	Liquidambar styraciflua		

GROUND COVERS		
COMMON NAME SCIENTIFIC NAME		
Bugleweed, Carpet	Ajuga reptans	
Ivy, English	Hedera helix	
Japanese Spurge	Pachysandra terminalis	
Lilyturf	Liriope muscari	
Moneywort	Lysimachia nummularia	
Mondo Grass, White	Ophiopogon jaburan	
Mondo Grass Dwarf	Ophiopogon japonicus	
Periwinkle, Lesser	Vinca minor	

GARDEN FLOWERS AND PLANTS			
COMMON NAME	SCIENTIFIC NAME		
Ageratum	Ageratum spp.		
Alyssum*, Sweet	Lobularia maritima		
Asparagus Fern	Asparagus setaceus		
Bleeding Heart	Dicentra spectabilis		
Cast Iron Plant	Aspidistra elatior		
Chrysanthemum	Chrysanthemum spp.		
Cinquefoil	Potentilla spp.		
Coleus	Coleus spp.		
Coralbells	Heuchera sanguinea		
Cranesbill	Geranium spp.		
Dahlia	Dahlia spp.		
Daisy, Trailing African	Osteospermum fruticosum		
Daylily	Hemerocallis spp.		
Dusty Miller	Senecio cineraria		
Euonymus	Euonymus spp.		
Gazania	Gazania spp.		
Geranium, House	Pelargonium hortorum		
Heather, False	Cuphea hyssopifolia		
Hosta	Hosta fortunei		
Iris	Iris spp.		
Jasmine Tobacco	Nicotiana alata		
Loosestrife	Lythrum salicaria		
Marigold	Tagetes spp.		
Partridgeberry	Mitchella repens		
Petunia*	Petunia hybrida		
Phlox	Phlox spp.		
Pinks	Dianthus spp.		
Portulaca	Portulaca grandiflora		
Salvia	Salvia spp.		
Saxifrage	Saxifraga spp.		
Sedum	Sedum spp.		
Selloum	Philodendron selloum		
Snapdragon*	Antirrhinum majus		
Sweet Flag	Aacorus gramineus		
Tickseed	Coreopsis grandiflora		
Touch-Me-Not	Impatiens spp.		
Verbena	Verbena spp.		
Violet	Viola spp.		
Yarrow, Common	Achillea millefolium		
Zinnia	Zinnia elegans		

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

SHRUBS			
COMMON NAME	SCIENTIFIC NAME		
Abelia	Abelia spp.		
Anise, Purple	Illicium floridanum		
Aucuba	Aucuba spp.		
Azalea*	Rhododendron spp.		
Bamboo	Bambusa spp.		
Barberry, Japanese	Berberis thunbergii		
Barberry, Magellan	Berberis buxifolia		
Bayberry	Myrica pensylvanica		
Bottlebrush	Callistemon citrinus		
Boxwood, Common	Buxus sempervirens		
Camellia, Common	Camellia japonica		
Candytuft	Iberis sempervirens		
Cleyera	Cleyera japonica		
Coralberry	Ardisia crenata		
Crape Myrtle	Lagerstroemia indica		
Coyote Brush	Baccharis pilularis		
Fig, Creeping	Ficus pumila		
Gardenia	Gardenia spp.		
Holly	llex spp.		
Honeysuckle	Lonicera spp.		
Indian Hawthorn	Raphiolepis indica		
Jasmine	Jasminum spp.		
Jasmine, Asiatic	Trachelospermum asiaticum		
Jasmine, Star	Trachelospermum jasminoides		
Juniper	Juniperus spp.		
Lantana	Lantana spp.		
Nandina* Bamboo, Heavenly	Nandinia domestica		
Oleander, Common	Nerium oleander		
Oregon Grape	Mahonia aquifolium		
Photinia	Photinia spp.		
Pittosporum	Pittosporum spp.		
Podocarpus	Podocarpus spp.		
Privet	Ligustrum spp.		
Pyracantha Rhododendron	Pyracantha spp.		
Riododendron	Rhododendron spp. Rosa spp.		
Spirea Sweet Olive	Spiraea bumalda		
	Osmanthus fragrans		
Viburnum	Viburnum tinus		
Wisteria	Wisteria spp.		
Yellow Sage/Shrub Verbena	Lantana camara		

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

USE DIRECTIONS FOR ANNUAL GRASSES IN ORNAMENTALS

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

		WEED**	APPLICATION RATES	
GRASS SPECIES	SCIENTIFIC NAME	HEIGHT INCHES	MINIMUM RATE fl oz/A ⁽¹⁾	MAXIMUM RATE fl oz/A ⁽²⁾
Barnyardgrass	Echinochloa crus-galli	2 to 8	12 (0.091 lb ai)	32 (0.242 lb ai)
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	12 `	32 `
Brome	, ,, ,,			
California	Bromus carinatus	2 to 6	12	32
Cheat	Bromus secalinus	2 to 6	12	32
Downy	Bromus tectorum	2 to 6	12	32
Ripgut	Bromus diandrus	2 to 6	12	32
Canarygrass	Phalaris canariensis	1 to 4	12	32
Crabgrass				
Hairy	Digitaria adscendens	2 to 6** <mark>*</mark>	12	32
Large	Digitaria sanguinalis	2 to 6** <mark>*</mark>	12	32
Smooth	Digitaria ischaemum	2 to 6** <mark>*</mark>	12	32
Southern	Digitaria ciliaris	2 to 6** <mark>*</mark>	12	32
Crowfootgrass	Dactyloctenium aegyptium	2 to 6***	12	32
Fall Panicum	Panicum dichotomiflorum	2 to 8	12	32
Field Sandbur	Cenchrus incertus	2 to 6	12	32
Foxtail				
Giant	Setaria faberi	2 to 12	12	32
Green	Setaria viridis	2 to 8	12	32
Yellow	Setaria glauca	2 to 8	12	32
Goosegrass	Eleusine indica	2 to 6***	12	32
Itchgrass	Rottboellia cochin	2 to 6	12	32
Junglerice	Echinochloa colona	2 to 6	12	32
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	12	32
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	12	32
Red Rice	Oryza sativa	1 to 3	12	32
Ryegrass	0.720 000		·-	\ \frac{1}{2}
Hardy	Lolium remotum	2 to 6	12	32
Italian <mark>*</mark>	Lolium multiflorum	2 to 6	12	32
	Sorghum halepense	4 to 10	12	32
Seedling Johnsongrass*	,	1	· -	_
Shattercane	Sorghum bicolor	6 to 18	12	32
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	12	32
Sprangletop				
Amazon	Lepthochloa panicoides	2 to 6	12	32
Bearded	Leptochloa fascicularis	2 to 6	12	32
Mexican	Leptochloa uninervia	2 to 6	12	32
Red	Leptochloa filiformis	2 to 6	12	32
Texas Panicum	Panicum texanum	2 to 6	12	32
Volunteer Cereals			1.0	
Barley	Hordeum vulgare	2 to 6	12	32
Oats	Avena sativa	2 to 6	12	32
Rye	Secale cereale	2 to 6	12	32
Wheat	Triticum aestivum	2 to 6	12	32
Volunteer Corn	Zea mays	4 to 12	12	16
Volunteer Corn	Zea mays	12 to 24	12	32
Volunteer Grain	Sorghum bicolor	8 to 12	12	32
Sorghum			1	
Wild Oats	Avena fatua	2 to 6	12	32
Wild Proso Millet	Panicum miliaceum	2 to 10	12	32
Witchgrass	Panicum capillare	2 to 8	12	32
Woolly Cupgrass	Eriochloa villosa	2 to 8	12	32

*non-ACC resistant

^{**}Generally occurs between 3-leaf stage and tillering.
***Length of lateral growth.

⁽¹⁾¹² fl oz/A (0.091 lb ai/A) = approximately 0.3 fl oz/1000 sq ft

⁽²⁾³² fl oz/A (0.242 lb ai/A) = approximately 0.8 fl oz/1000 sq ft
Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt per 50 gals (0.25% v/v).

USE DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH V-10137 1 EC HERBICIDE IN ORNAMENTALS			
APPLICATION RATES			
GRASS SPECIES	WEED	MINIMUM	MAXIMUM
GRASS SPECIES	STAGE	RATE	RATE
		fl oz/A	fl oz/A
Annual Bluegrass (Poa annua)	to 4-leaf	12	32
o ,			(0.242 lb ai)

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

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

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

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

USE DIRECTIONS FOR PERENNIAL GRASSES IN ORNAMENTALS

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

	WEED	APPLICAT	APPLICATION RATES	
GRASS SPECIES	HEIGHT (inches)	MINIMUM RATE fl oz/A ⁽¹⁾	MAXIMUM RATE ⁽²⁾ fl oz/A	
Bermudagrass (Cynodon dactylon) First Application	3 (or up to 6" runners)	12 (0.091 lb ai)	32 (0.242 lb ai)	
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	12	32	
Foxtail Barley (<i>Hordeum jubatum</i>) First Application Repeat Application(s) (if regrowth occurs)	2 to 6 2 to 6	12 12	32 32	
Quackgrass (<i>Elytrigia repens</i>) First Application Repeat Application(s) (if regrowth occurs)	4 to 8 4 to 8	12 12	32 32	
Rhizome Johnsongrass* (Sorghum halepense) First Application Repeat Application(s) (if regrowth occurs)	12 to 24 6 to 18	12 9 (0.068 lb ai)	32 16 (0.121 lb ai)	
Wirestem Muhly (<i>Muhlenbergia frondosa</i>) First Application Repeat Application(s) (if regrowth occurs)	4 to 8 4 to 8	12 12	32 32	

*non-ACC resistant

(1)12 fl oz/A (0.091 lb ai/A) = approximately 0.3 fl oz/1000 sq ft

 $^{(2)}$ 32 fl oz/A (0.242 lb ai/A) = approximately 0.8 fl oz/1000 sq ft

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

IMPORTANT

Plant to V-10137 1 EC 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 advised 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 V-10137 1 EC Herbicide have investigated the safety factor to plants not listed on the label.

NON-BEARING FRUIT AND NUT CROPS SPECIFIC DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE			
CROPS		Use Rates	Special Use Instructions
Common Name	Scientific Name	Per Acre	Special Ose Ilistructions
Apple	<i>Malus</i> spp.	9-16 fl oz	Non-bearing fruit and nut crops are plants
Berry	Vaccinium spp.	(0.068 to	which will not bear fruit or nuts for at least one
	Rubus spp.	0.121 lb ai)	year following V-10137 1 EC Herbicide
Cherry, Sweet	Prunus avium		application.
Citrus Fruits	Citrus spp.		
Grapes	Vitis spp.		Use of crop oil concentrate may injure flowers and
Olives	Olea spp.		foliage.
Peach	Prunus persica		
Pears	Pyrus communis		Sugar maples cannot be tapped for syrup within
Prunes	Prunus spp.		one year of V-10137 1 EC Herbicide application.
Stone Fruits	Prunus spp.		For report application make an a minimum of a 14
Strawberries	Fragaria spp.		For repeat application make on a minimum of a 14 day interval.
Tree Nuts			uay interval.
Almond	Prunus triloba		Crop injury to non-bearing fruit and nut crops
Filbert	Corylus maxima		can occur if V-10137 1 EC Herbicide is
Pecan	Carya illinoinensis		improperly applied. V-10137 1 EC Herbicide
Pistachio	Pistacia vera		must not be applied directly over the top of
Walnut	Juglans spp.		these plant types. Instead, direct spray at the base of the plant where grassy weeds are growing near the ground.
			 Restrictions If V-10137 1 EC Herbicide is applied as a spot treatment to non-bearing fruit and nut crops, DO NOT exceed the maximum rate allowed on a "per acre" basis. V-10137 1 EC Herbicide must not be applied to non-bearing fruit or nut crops which are grown for root stock. DO NOT apply more than 16 fl oz (0.121 lb ai) per acre per application. DO NOT make more than 4 applications per acre per year. DO NOT apply more than 64 fl oz (0.485 lb ai) per acre per year.

CONIFER TREES SPECIFIC DIRECTIONS AND RESTRICTIONS FOR V-10137 1 EC HERBICIDE						
CROPS		Use Rates	Special Use Instructions			
Common Name	Scientific Name	Per Acre	Special Ose instructions			
Arborvitae, American	Thuja occidentalis	9-32 fl oz	V-10137 1 EC Herbicide can be used to			
Cedars	Cedrus spp.	(0.068 to	control labeled grasses in Christmas tree			
Cypress	Taxodium spp.	0.242 lb ai)	farms, conifer nurseries and conifer			
Fir, Douglas	Pseudotsuga menziesii		plantations (but not in forests).			
Firs	Abies spp.					
Hemlock, Canadian/Eastern	Tsuga candensis		Add a non-ionic surfactant containing at			
Hemlock, Western	Tsuga heterophylla		least 80% active ingredient at the rate of 1 pt			
Pines	Pinus spp.		per 50 gals (0.25% v/v).			
Spruces	Picea spp.					
Yew	Taxus spp.		For repeat application make on a minimum of a 14 day interval.			
			 Restrictions DO NOT apply more than 32 fl oz (0.242 lb ai) per acre per application. DO NOT make more than 2 applications at 32 fl oz (0.242 lb ai) or 4 applications at 16 fl oz (0121 lb ai) or less per acre per year. DO NOT apply more than 64 fl oz (0.485 lb ai) per acre per year. 			

NON-CROP OR NON-PLANTED AREAS

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

USE DIRECTIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH V-10137 1 EC HERBICIDE					
APPLI			LICATION RATES		
GRASS SPECIES	WEED STAGE	MINIMUM RATE fl oz/A	SPECIAL INTRUCTIONS		
Annual and perennial grasses that exceed height claimed for control on height chart above.	Up to and including grasses in the seed head stage	12 (0.091 lb ai)	Add a crop oil concentrate at 1 qt/A by ground to the finished spray volume.		

Restrictions

- Other than the crop oil identified above, **DO NOT** apply as part of a tank mix when applying V-10137 1 EC Herbicide for grass suppression.
- **DO NOT** apply more than 32 fl oz (0.242 lb ai) V-10137 1 EC Herbicide per acre per application.
- **DO NOT** make more than 2 applications per acre per year.
- For repeat applications make on a minimum of a 14 day interval.
- **DO NOT** apply more than 64 fl oz (0.485 lb ai) V-10137 1 EC Herbicide per acre per year.

STORAGE AND DISPOSAL

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

STORAGE

Keep pesticide in original container.

DO NOT put concentrate or dilute into food or drink containers.

Store in cool, dry place.

DO NOT store diluted spray.

Emergency Response: For help with any spill, leak, fire or exposure involving this material, call day or night **800-892-0099**.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

[Container language for 2.5 Gallon]

CONTAINER HANDLING

Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[Container language for 15 Gallon]

CONTAINER HANDLING

Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Clean container 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[Container language for 120 Gallon]

CONTAINER HANDLING

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

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer**, **Risks of Using This Product**, **Limited Warranty** and **Limitation of Liability**, which may not be modified by any oral or written agreement.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law. Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures, including all crop rotational and other crop restrictions.

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Asana XL and Danitol 2.4 EC are restricted use pesticides.

Manufactured for:

Valent U.S.A. LLC

P.O. BOX 5075

San Ramon CA 94583

Walnut Creek, CA 94596-8025

Made in U.S.A.

EPA Reg. No. 59639-132 EPA Est. No.

059639-00132.20210210.V10137.Amend.Red

THE VALENT RETURNABLE KEG

Description: This keg is a closed-system, refillable container designed for easy handling and convenient dispensing of product with no container disposal.

Construction: The keg is made of all stainless steel. Both the gaskets and seals are Viton and are compatible with the Valent product.

Pump System: With the versatility of the keg, either a mechanical pump or an air pressure system may be used to dispense the product.

Coupler: A specific dry-disconnect coupler is required for dispensing product from the keg. This coupler is available through local agricultural equipment suppliers.

Container Capacity: 15 gallons or 56.7 liters (by weight)

ATTENTION!

This is a closed-system container. **DO NOT** try to remove the valve from the keg. The coupler required for removal of product is available from local agricultural equipment suppliers. The keg contains tamper evident seals that, if broken, will incur a fee for the user of the keg. Both the coupler and the valve are designed for one-way operation only. Never try to pump any type of material back into the keg.

DIRECTIONS FOR USE

The proper coupler must be attached and engaged before removing any product from the keg. Either a mechanical pump or an air pressure system may be used and connected to the 1-inch NPT thread on the top of the coupler.

IMPORTANT! Attach a hose or pump to the coupler before engaging coupler. This will prevent the user from being splashed in the event that pressure build-up in the keg forces liquid up through the coupler.

To attach and engage the coupler:

- 1. Pull top of black dust cover back to expose head of valve. The bottom ring of the black dust cover will still be attached to the neck of the valve. Save the dust cover for reuse when returning keg.
- 2. Before engaging the coupler, securely attach a hose or pump to the threaded connection.
- 3. Twist coupler onto valve on keg.

and engage coupler by pulling handle straight out to unlock and then pushing handle down into lower position to open internal valve. Handle will automatically lock in place.

- **4.** Secure and engage coupler by pulling handle straight out to unlock and then pushing handle down into lower position to open internal valve. Handle will automatically lock in place.
- **5.** You are now ready to begin the pumping operation.

To remove coupler from container:

- 1. Release coupler by pulling handle straight out to unlock and then lifting handle into upper position. Handle will automatically lock in place.
- 2. Lift coupler from keq. As coupler clears top of valve, pull coupler sideways and lift it off the valve.
- 3. Wipe valve off and replace dust cover.
- **4.** Flush coupler with water.
- 5. Wipe coupler and store in a clean place.
- 6. Properly dispose of cleaning towels and rinsate.

RETURNING KEGS

Clean the outside of the keg with water or soap before returning the keg to the distributor. Leave all Valent product labels and stickers securely attached. All Valent product labels, stickers and other information must remain on the keg in order to comply with both State and Federal regulations.

All Valent kegs are tracked using the individual keg serial number stamped in the top of the keg. Distributors are responsible for these kegs that have been assigned to them. Return this keg to the distributor from which it was purchased. Notify the distributor if the keg cannot be returned by the specific time.

Valent U.S.A. LLC 4600 Norris Canyon Road

San Ramon CA 94583 1600 Riviora Avo., Sto.2 00

Walnut Crook CA 04506

