

{Booklet Label}

RESTRICTED USE PESTICIDE

Due to Acute Toxicity

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

MARMAN HERBIQUAT® HERBICIDE

A Weed, Grass and Harvest Aid Herbicide

Active Ingredient:

Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride)	37.3%
Other Ingredients	62.7%
Total	100.0%

Contains 2.5 lbs. paraquat cation per gallon as 3.454 pounds salt per gallon.
Contains stench (odor) and emetic.

EPA Reg. No. 48273-27

EPA Est. 48273-FL-1

Net Contents: _____

Keep Out of Reach of Children

**DANGER POISON
PELIGRO**

ACCEPTED
OCT 2 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 48273-27

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

- Never put into food, drink or other containers.
- If swallowed, take immediate action as prescribed in the First Aid section. Symptoms are prolonged and painful.
- Do not use or store in or around the home.
- Do not remove contents except for immediate use.

Conditions of Sale and Limitation of Warranty and Liability

Notice: Read the entire *Directions for Use* and *Conditions of Sale and Limitation of Warranty and Liability* before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Carefully follow the *Directions for Use* of this product. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of this product, which are beyond the control of Marman or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Marman and Seller harmless for any claims relating to such factors.

Marman warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the *Directions for Use*, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Marman, and Buyer and User assume the risk of any such use. **Marman makes no warranties of merchantability or of fitness for a particular purpose nor any other express or implied warranty except as stated above.**

In no event shall Marman or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **The exclusive remedy of the User or Buyer, and the exclusive liability of Marman and Seller for any and all claims, losses, injuries or damages (including claims based on breach of warranty, contract, negligence, tort, strict liability or otherwise) resulting from the use or handling of this product, shall be the return of the purchase price of the product or, at the election of Marman or Seller, the replacement of the product.**

Marman and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability which may not be modified except by written agreement signed by a duly authorized representative of Marman.

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Product Performance Concerns: Concerns with the performance of Herbiquat Herbicide must be reported to the retail dealer or to a Marman representative within 14 days of application. Weeds emerging after application or regrowth or perennial weeds do not constitute a legitimate product performance complaint.

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PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
DANGER POISON
PELIGRO

Fatal if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse. **Important:** Inhalation is an unlikely route of exposure due to low vapor pressure and large spray droplet size, but mucosal irritation or nose bleeds may occur. Prolonged contact with this concentrated product can irritate your skin.

Personal Protective Equipment

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves – Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or viton)
- A NIOSH-approved respirator with any N, R, P or HE filter.

Mixers and loaders must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Face shield
- Chemical-resistant apron
- Chemical-resistant gloves – Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or viton)
- A NIOSH-approved respirator with any N, R, P or HE filter.

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

Engineering Controls

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

User Safety Recommendations

Users should:

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

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First Aid

If Swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person. • See <i>Note to Physician</i>.
If Inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. • The odor of this product is from the stenching agent that has been added, not from paraquat.
If in Eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on Skin or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

Note to Physician: Call Marman USA, Inc. at 813-286-2503 at any hour to obtain toxicology and medical management consultation and paraquat analyses. Prompt treatment is essential and must be initiated immediately before signs and symptoms appear. Symptoms are prolonged and painful and may be delayed for days after swallowing. Treatment may include binding paraquat in the gut with suspensions of clay or charcoal; and/or removal of paraquat from the blood by prolonged charcoal hemoperfusion or continuous hemodialysis. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. [You may also call 1-800-xxx-xxxx for emergency medical treatment information.]

{Note: The first aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

Environmental Hazards

Wildlife: This product is toxic to wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Drift: This product is a contact herbicide that desiccates all green plant tissue. Paraquat dichloride is toxic to nontarget crops and plants if off-target movement occurs. Extreme care must be taken to ensure that off-target drift is minimized to the greatest extent possible. Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof will be rendered unfit for sale, use or consumption. Do not apply when weather conditions favor drift from treated areas. To avoid drift, do not make aerial applications during periods of thermal inversion. Refer to the local state laws, regulations, guidelines and spray drift information contained in the *Directions for Use* section for proper application to avoid off-target movement.

Physical and Chemical Hazards

This product is mildly corrosive to aluminum and produces hydrogen gas that may form a highly combustible gas mixture. Do not mix or store in containers, spray tanks, nurse tanks or such systems made of aluminum or having aluminum fittings. This product is compatible with high density polyethylene and rubber-lined steel containers.

DIRECTIONS FOR USE

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

Restricted Use Pesticide

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.

Do not use around home gardens, schools, recreational parks, golf courses or playgrounds

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

For Preplant or Preemergence (Broadcast or Banded), Chemical Fallow, Postemergence Directed Spray, Early Postemergence Broadcast in Peanuts, Dormant Season Applications and "Between Cutting" Applications in Alfalfa: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

For Harvest Aid and Desiccation Applications: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Storage and Disposal

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

Pesticide Storage: Store at temperatures above 32°F. For help with any spill, leak or fire involving this material, call Chemtrec at 1-800-424-9300.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Container Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Recyclable/Refillable Containers: Before refilling, thoroughly inspect for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking containers.

Container Disposal: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

Container is not safe for food, feed or drinking water.

General Instructions and Information

Do not apply this product through any type of irrigation system.

When this product is applied at less than 10 gallons per acre finished spray volume, a drift control or spray deposition additive **should** be used. Refer to the additive label for use directions.

Spray Drift Information

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

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

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they shall be observed.

The applicator should be familiar with and take into account the information covered in the *Aerial Drift Reduction Advisory Information*.

Aerial Drift Reduction Advisory Information

(This section is advisory in nature and does not supersede the mandatory label requirements.)

Information on Droplet Size

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

Controlling Droplet Size

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

Boom Length

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

Application Height

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

Swath Adjustment

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

Wind

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

Temperature and Humidity

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

Temperature Inversions

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

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Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

General Information

This product is a contact herbicide used to control or suppress a broad spectrum of emerged weeds. This product controls most small annual weeds - both broadleaves and grasses, and suppresses perennial weeds by destroying green foliage. This product can also be used as a desiccant at harvest.

This product is formulated as a liquid that contains 2½ lbs. of active ingredient per gallon. The formulation is green in color and contains a nontoxic odor, and an emetic (an agent which will induce vomiting if the product is swallowed). The odor and green color are included in the formulation to help prevent accidental ingestion of this product.

This product is rapidly absorbed by green plant tissue and interacts with the photosynthetic process to produce superoxides which destroy the plant cells. This product requires actively growing green plant tissue to function. Thorough coverage of all green foliage is essential for effective weed control. This product is not as effective on drought-stressed weeds, weeds with little green foliage (i.e., mowed or cut weeds) or mature woody bark of trees and vines.

Clay and organic matter rapidly tie up this product. As a result, this product has no residual soil activity to affect later-planted crops or later germinating weeds.

Rotational Crops

All rotational crops may be planted immediately after the last application of this product.

Rainfastness

Because this product is rapidly absorbed by the weed foliage, rain occurring 30 minutes or more after application will have no effect on its activity.

Application

Since this product is a contact-type herbicide, it is essential to obtain complete coverage of target weeds to get good control. Improper application technique and/or application to large, stressed or mown weeds will usually result in unacceptable weed control. Good coverage is also essential for proper performance in harvest-aid applications. See details below for specific application instructions.

Use of a Nonionic Surfactant or Crop Oil Concentrate

Always add one of the following: Failure to add one of the following will result in reduced performance of this product.

Nonionic Surfactant: Add nonionic surfactant containing 75% or more surface-active agent at 0.125% v/v (1 pint per 100 gallons), or add a nonionic surfactant containing 50-74% surface-active agent at 0.25% v/v (2 pints per 100 gallons) of the finished spray volume for ground applications. For aerial applications, add a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons) of the finished spray volume.

Crop Oil Concentrate: Add a nonphytotoxic crop oil concentrate containing 15-20% approved emulsifier at 1.0% v/v (1 gallon per 100 gallons) of the finished spray volume for ground applications. For aerial applications, add 1 pint of crop oil concentrate per acre. Do not use crop oil concentrate when using this product for cotton harvest aid.

Nozzle Selection

The use of flat-fan nozzles will result in the most effective application of this product. Flood nozzles are generally not as good as flat fans since they produce large uneven droplets. The use of flood nozzles may result in reduced weed control due to inadequate coverage.

When spraying less than 20 gallons of spray carrier per acre, use only flat fan nozzles as recommended in the chart below.

Recommended Nozzles, Pressures and Setup		
	Nozzle Type	
	Flat Fan	Flood
Maximum Size	8	15
Spray Pressure (at nozzle)	30-50 psi	30-50 psi
Maximum Nozzle Spacing	30 inches	40 inches
Direction of Spray Pattern	Down	Down
Maximum Speed	10 mph	10 mph
Spray Overlap (at each edge)	30%	50%

Using nozzles, pressures or setups different from the above chart will result in reduced control.

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Spray Carrier

Always use clean water (free of mud or clay), clear liquid nitrogen or complete clear liquid fertilizers as the carrier when spraying this product. Muddy water, or suspension-type fertilizers containing clay, can inactivate this product. Never use suspension-type fertilizers containing clay as the spray carrier. If using a complete clear liquid fertilizer containing high phosphate levels as the spray carrier, always use the higher rate of this product and surfactant. **Use Precaution and Restriction:** When using liquid fertilizers such as 28% N as a spray carrier, it is important that nonionic surfactant still be used with this product. Liquid fertilizer carriers cannot substitute for surfactant.

Rates of Herbiquat Herbicide

Follow recommended rates listed with each use. Use the higher label rates when weeds are dense or large. Also, use higher label rates for harvest aid when crop vegetation is dense. For broadcast applications with backpack sprayers, the application rate should not exceed 0.5 lbs. ai/A in a minimum of 30 gallons of spray solution per acre.

Spray Volume

Follow recommended minimum spray volumes listed with each use. These are only **minimum** volumes; increase spray volumes as necessary to obtain complete coverage of the target weed or plant without runoff from the foliage. **When spraying less than 20 gallons of spray carrier per acre, target weeds should not exceed 6 inches in height.**

Application Timing

This product should be applied to emerged weeds when they are small. Weeds 1 inch to 6 inches in height are the easiest to control. Larger weeds may be more difficult to control. When weeds have been grazed or mowed, thus removing much of the green foliage, allow the weeds to regrow to a height of 2 to 4 inches before spraying, if possible. Similarly, when forage or grain crops have been harvested prior to spraying, weeds present in the field will also have been cut. To allow for adequate green foliage to remain on weeds in this situation, raise cutter bars as high as possible from the ground to cut stubble and weeds at a greater height.

Burndown of Grass Cover Crops or Volunteer Cereals

When using this product for control of grass cover crops or volunteer cereals, best results are obtained when this product is applied **prior to tillering or after boot stage**. This is especially important with a wheat cover crop or volunteer wheat. Treatments made between tillering and boot stage will generally not provide complete control. Do not expect complete control of perennial cover crops.

Environmental Conditions

This product is active over a wide range of environmental conditions. Cool weather (below 55°F) will slow the activity of this product, as will cloudy, overcast weather, but will not affect performance.

Spot Spraying

When only small areas are to be sprayed with labeled applications, it is advantageous to mix small quantities of this product. To aid in mixing small quantities, the following table should be consulted.

If the Broadcast Rate per Acre for Herbiquat Herbicide Is	Add the Following Amount of Herbiquat Herbicide to 1 Gallon of Water
1.5 pints	1/3 fl. oz.
2.0 pints	3/8 fl. oz.
2.5 pints	1/2 fl. oz.
3.0 pints	2/3 fl. oz.

Always add 1/3 to 1/2 fl. oz. of a nonionic surfactant for each gallon of spray. When spot spraying in this manner, spray to thoroughly wet the foliage, but not to the point of runoff.

Tank Mixing for Improved Burndown of Difficult Weeds and Residual Weed Control

Photosynthetic Inhibitor Herbicides: Difficult weeds can often be controlled by tank mixing this product with other herbicides. The addition of herbicides that are also photosynthetic inhibitors (PSI) will slow the activity of this product, allowing it to thoroughly distribute itself within the treated leaf. The resulting level of control is usually greater than if this product was applied alone.

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This product may be applied in tank mixture with the following PSI herbicides:

Aatrex® herbicide	Canopy® herbicide	Linex® herbicide
Atrazine herbicide	Extrazine® herbicide	Lorox® herbicide
Bicep® herbicide	Griffex® herbicide	Lorox Plus™ herbicide
Bicep Lite® herbicide	Lariat® herbicide	Princep® herbicide
Bladex® herbicide	Lexone® herbicide	Sencor® herbicide

Refer to respective product label(s) for application rates, directions for use, limitations, cautions and a list of weeds controlled.

Improved Weed Control with PSIs

Control of difficult weeds listed below and annual grass control will be enhanced by the addition of a PSI herbicide. For best results a second application is needed.

Barnyardgrass	Giant Ragweed	Marestail	Prickly lettuce
Broadleaf signalgrass	Knotweed	Morningglory	Sedges
Cheatgrass	Kochia	Pennsylvania Smartweed	Tansymustard
Cocklebur	Lambsquarters	Perennial Weeds	Velvetleaf
Fall Panicum	Malva (Cheeseweed)	(suppression only)	Volunteer wheat

Improved Control of Perennial and Annual Broadleaf Weeds

When perennial broadleaf weeds, such as Canada thistle, bindweed, dandelion, etc., or difficult to control annual broadleaf weeds, such as giant ragweed or morningglory, are present, tankmixes with 2,4-D ester (Low Volatile), 2,4-DB or dicamba (Banvel®) herbicide, where labeled, will help improve control. Tank mixing the amine formulation of 2,4-D with this product may result in reduced grass control.

Order of Tank Mixing

In general, Herbiquat Herbicide tankmixes with other product should be mixed as follows:

1. Fill spray tank 1/2 full with clean water or other approved carriers such as clear liquid fertilizer.
2. Begin tank agitation and continue throughout mixing and spraying.
3. Add dry formulations (WP, DF, etc.) to tank.
4. Add liquid formulations (SC, EC, L, etc.) to tank.
5. Add this product to tank.
6. Add nonionic surfactant to tank.
7. Fill remainder of spray tank.

Always refer to label(s) of other pesticide products for mixing directions and use precautions and restrictions that may differ from those outlined here. Since many of the herbicides listed on this label are available in several types of formulations, it is advisable to perform a jar test to check physical compatibility.

General Use Precautions and Restrictions

Equipment/Container

Flush all spray equipment with water after use each day. This product is corrosive to aluminum. Aluminum spray equipment and aluminum aircraft structures that are exposed to spray solution or spray drift should be thoroughly flushed with water immediately after use. In dry areas, dust stirred up by high winds or equipment tires can coat weed leaves and reduce this product's activity. Avoid applying this product in extremely dusty conditions.

Limitations, Use Precautions and Restrictions

- Do not use around home gardens, schools, recreational parks or playgrounds.
- In preplant and preemergence (to the crop) uses, do not apply to soils lacking clay minerals, i.e., peat, muck, pure sand, artificial planting media.
- Seedbeds and plantbeds should be formed as far ahead of planting and treatment as possible to permit maximum weed and grass emergence prior to treatment.
- Seeding or transplanting should be done with a minimum amount of soil disturbance.
- When used for preplant weed control over the top of plastic mulch, this product may damage transplants that come in contact with the plastic. Sufficient rainfall or sprinkler irrigation to cause wash-off prior to planting may be needed to prevent damage to the crop.

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- Weeds and grasses emerging after application of this product will not be controlled or suppressed.
- Unless otherwise indicated, crop plants emerged at the time of application may be severely injured or killed if contacted by this product's sprays.

Application Instructions

The following tables indicate use patterns, rates, minimum spray volumes, preharvest intervals and other use precautions, restrictions and comments specific to each crop. Carefully read and follow directions.

Alfalfa

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
New seedlings (CA only)	Broadcast	0.4 - 1.6 pints (See Table on page _____)	Ground: 10 gal. Air: 5 gal.	70	<ul style="list-style-type: none"> • Apply during late winter or early spring. • Do not cut or harvest within 70 days after application. • Do not apply more than once during the first growing season. • Caution: Seedling alfalfa stands will be reduced and replanting may be necessary. • Not recommended for seedling alfalfa grown for seed. • Alfalfa foliage present at time of application will be burned.
Conventional planting	Preplant or Preemergence Broadcast or Banded Over Row	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> • Apply prior to emergence of the crop. • Crop plants emerged at time of application will be killed. • Seeding should be done with a minimum amount of soil disturbance.
Dormant season on established plantings Region A - See map at end of Alfalfa section	Broadcast	1.5 - 2.5 pints	Ground: 10 gal. Air: 5 gal.	42	<ul style="list-style-type: none"> • For control of weeds, including bluegrass, chickweed, henbit, downy brome, ryegrass, cheatgrass, dogfennel, tansymustard, London rocket, sowthistle, rescue brome, wild oats and other winter annuals; and suppression of perennial weeds. • Do not apply if fall regrowth following last fall cutting is greater than 6 inches, or if spring regrowth is more than 2 inches. • Apply to well-established stands (at least one year old) after the crop is dormant. • Alfalfa foliage present at the time of application will be burned which may reduce the yield of the first cutting. • Do not cut or harvest within 42 days of application. • Do not apply more than once per season. • Tank mix with metribuzin (Lexone or Sencor) for improved burndown of weed vegetation and residual weed control. Consult the metribuzin product label for a list of weeds controlled, application rates and use precautions and restrictions.
Dormant season tankmix with Velpar® L herbicide Region A - See map at end of Alfalfa section.	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 10 gal.	42	<ul style="list-style-type: none"> • For control of weeds such as chickweed, downy brome and tansymustard. • Use the 0.8 pint rate when weeds and grasses are less than 4 inches tall. • Mix with 1 to 2 quarts of Velpar L per acre. • Use the lower rate of Velpar L on loamy sands or sandy loams. Refer to Velpar L label for directions, limitations, cautions and a list of weeds controlled. • Apply once to established alfalfa stands during the dormant season. • Do not apply if fall regrowth following last fall cutting is greater than 6 inches, or if spring regrowth is more than 2 inches. • Do not apply to alfalfa during the first season after seeding. • Temporary chlorosis may occur on alfalfa regrowth. • Stress that may be caused in part by low fertility, disease, insects, winterkill, over cutting, drought or frost may increase the chances of crop injury. • Do not use on gravelly or rocky soils, exposed subsoils, hardpan, sand or poorly drained alkaline soils as crop injury, including mortality, may result. • Do not cut or harvest within 42 days of application.

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Alfalfa (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Dormant season					
On established plantings: Region B - See map at end of Alfalfa section	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	60	<ul style="list-style-type: none"> For desiccation of weeds, including London rocket, sowthistle, rescue brome, wild oats, chickweed, ryegrass, bluegrass, cheatgrass, dogfennel, tansymustard, henbit, downy brome and other winter annuals; and suppression of perennial weeds. Apply during late fall or winter months after the last fall cutting and before first spring cutting. In the California counties of Orange, Riverside and all counties north of these counties, do not apply if spring regrowth after grazing or cutting is more than 2 inches. In all other areas within Region B, do not apply if regrowth after grazing or cutting is more than 2 inches. Do not harvest within 60 days of application. Caution: Applications to alfalfa that is not dormant, or has broken dormancy, may result in stand and/or yield reductions. Replanting may be necessary. Green alfalfa foliage present at the time of application will be burned. Total hay yield of first cutting may be reduced in alfalfa fields with severe weed infestation. This reduction will usually be directly proportionate to the loss of weed weight. Do not apply more than once per season. Tank mix with metribuzin (Lexone or Sencor) for improved burndown of weed vegetation and residual weed control in dormant established (at least 1 year old) alfalfa. Consult the metribuzin product label for a list of weeds controlled, application rates and use precautions and restrictions. Do not apply tankmix with metribuzin on newly established (less than 1 year old) alfalfa. <p>California:</p> <ul style="list-style-type: none"> For desiccation of weeds including bluegrass, ryegrass, shepherdspurse, chickweed, tansymustard, foxtail, sowthistle and groundsel. Use high rate if ryegrass, shepherdspurse, sowthistle or groundsel is present.
On fall-seeded, newly established stands less than 1 year old: Region A - See map at end of Alfalfa section.	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.		
On fall-seeded newly established stands less than 1 year old: Region B - See map at end of Alfalfa section.	Broadcast	0.4 - 1.0 pint	Ground: 10 gal. Air: 5 gal.		
Between-cuttings treatment in established plantings (Includes first year alfalfa) (All states East of the Rocky Mountains)	Broadcast	0.8 pint	Ground: 10 gal.	30	<ul style="list-style-type: none"> Weeds much beyond the seedling stage and the stubble of weeds cut off during harvest will be less affected by this treatment. Apply immediately after alfalfa has been removed for hay or silage. Do not treat more than 5 days after cutting. Caution: First year alfalfa stands and yields may be reduced if alfalfa is allowed to regrow more than 2 inches. Alfalfa foliage present at time of application will be burned. In arid areas where moisture is limited weed control may be reduced. Do not cut or harvest within 30 days of application. Make 1 to 3 applications, as needed, during the growing season. These sprays may be applied in addition to a dormant application. For first year alfalfa, do not apply more than twice during the first growing season.

Almonds

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Directed Spray	1.0 - 3.2 pints	Ground: 10 gals.		<ul style="list-style-type: none"> Do not allow spray to contact green stems (except suckers) or foliage. Use a shield or wrap plant when spraying around young trees or vines. Do not graze treated areas. Do not feed cover crops grown in treated areas to livestock. Do not apply when nuts to be harvested are on the ground. For mature woody weeds, perennial weeds, late germinating weeds and green suckers, retreatment or spot treatments may be necessary.

Asparagus

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Preplant or Preemergence	Broadcast or Banded Over Row	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply prior to emergence of the crop. Crop plants emerged at time of application will be killed.
Preemergence to established plantings at least 2 years old	Broadcast or Banded Over Row	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.	6	<ul style="list-style-type: none"> Apply prior to emergence of crop after last harvest. Crop plants emerged at time of application will be killed. May be tank-mixed with Princep herbicide for residual control. Refer to Princep label for specific directions, limitations, cautions and a list of weeds controlled.

Beans, Dry

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Lupins: Sweet, White sweet, White and Grain Beans: Adzuki, Asparagus, Black, Broad, Field, Garbonzo, Kidney, Lablab, Lima, Moth, Mung, Navy, Pinto, Rice, Snap, Tepary, Urd and Wax Peas: Blackeyed, Chickpeas, Cowpeas, Crowder and Southern Catjang Guar	Harvest-Aid	1.0 - 1.5 pints	Ground: 20 gal. Air: 5 gal.	7	<ul style="list-style-type: none"> Add spreader (nonionic) at 1 quart per 100 gallons of spray mix. For vining type beans or bush type with lush growth, use a single application of the higher rate. May also be applied as a split application. Do not make more than 2 applications or exceed a total of 1.5 pints per acre. The split application may improve vine coverage. Apply when the crop is mature and at least 80% of the pods are yellowing and mostly ripe with no more than 40% (bush type beans) or 30% (vine type beans) of the leaves still green in color. Do not apply when weather conditions favor spray drift. A drift control agent may be included to reduce spray drift. Not Registered for use on dry beans in California.

Berries

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Blackberries, Blueberries, Boysenberries, Current, Elderberry, Gooseberry, Huckleberry, Loganberry, Raspberries	Postemergence Directed Spray	1.6 - 3.2 pints.	Ground: 50 gal.		<ul style="list-style-type: none"> Apply before emergence of new canes or shoots as injury to those canes or shoots can occur. Apply as a coarse spray to avoid crop injury from fine spray mist.

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Cacao

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Directed Spray	1.6 - 3.0 pints	Ground: 50 - 200 gal.	1	<ul style="list-style-type: none"> Apply when weeds are succulent and growth is from 1 to 6 inches. For mature woody weeds, late-germinating weeds and grasses and for perennials; retreatment or spot treatment may be necessary. Do not allow spray to contact cacao plants as injury may result. Use a shield for young trees. Do not spray under windy conditions. Do not graze treated areas or feed treated cover crops to livestock.

Cassavas, Taniers and Yams

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Puerto Rico Only	Shielded Post Directed Spray	1.6 pints	Ground: 50 gal.	90	<ul style="list-style-type: none"> Apply when weeds are succulent and growth is 1 to 6 inches. On cassavas and taniers, do not make more than 3 applications per crop season. On yams do not make more than 2 applications per crop season. Do not allow spray to contact cassavas, tanier or yam plants as injury may result. Do not spray under windy conditions. Do not graze treated areas or feed treated forage to livestock.

Chemical Fallow

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
General Information			Ground: 5 gal. Air: 5 gal. See Use Precautions/Restrictions/Comments		<ul style="list-style-type: none"> Use higher spray volumes for better coverage as density of stubble, crop residue or weeds increase. To control volunteer wheat or downy brome, fall-applied treatments generally work best with this product. If possible, tank mix with Atrazine or Bladex for maximum burndown and residual control. Apply from immediately after harvest up to emergence of the newly seeded crop as a broadcast or band treatment. Cut wheat as high as possible to avoid cutting weeds too short, and allow the weeds to grow at least 2 to 3 inches after harvest before applying this product. The addition of dicamba (Banvel) or 2,4-D ester (Low Volatile) may aid in the suppression of emerged perennial broadleaf weeds and large annual broadleaf weeds. Refer to 2,4-D ester (Low Volatile), dicamba (Banvel) or residual herbicide label(s) for directions, limitations, cautions and a listing of weeds controlled. For extended weed control during the fallow period, tankmixes with registered residual herbicide combinations other than those listed on this label are permissible. Weeds taller than 6 inches may not be controlled. Weeds and grasses emerging after application will not be controlled. Crop plants emerged at the time of application will be killed. By ground application, apply 5 to 60 gallons of spray mix per acre. If applying at < 10 GPA by ground, utilize the following additional use precautions and restrictions: <ul style="list-style-type: none"> Do not apply with floaters or exceed a speed of 10 mph; Apply with flat fan nozzles only at 30 to 40 psi; Apply only in a tankmix with atrazine at a minimum of 0.5 lbs. ai/acre; By air, apply in 5 to 10 gallons of spray mix per acre.

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Chemical Fallow (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Continuous Wheat 2-3 Month Recropping Interval	Broadcast	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		<ul style="list-style-type: none"> • Make application at least 45 days prior to seeding. • Use at least 1.6 pints of this product per acre with a PSI (see page ____) for volunteer wheat or downy brome control in the spring. • Tank mix with Bladex for enhanced burndown, however, low rates (less than 2 lbs. active) of Bladex may not provide complete control of volunteer wheat and downy brome. • Refer to the Bladex label for specific use rates for your soil type, use directions, cautions and a list of weeds controlled. • Refer to the Chemical Fallow General Information section above.
Wheat-Fallow- Wheat Rotations (Fall applied after harvest; seeded 12-14 months later)	Broadcast	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		<ul style="list-style-type: none"> • Spray before weeds produce seed. • Volunteer wheat and downy brome control are better with late August or early September applications. • Tank mix with Atrazine and/or Bladex, Marksman® herbicide, or Command® herbicide for enhanced burndown and residual weed control. • Tank mix with metribuzin (Sencor 75DF) or burndown and residual control of grass and broadleaf weeds. • Refer to the product label(s) for specific use rates for your soil type, use directions, cautions and a list of weeds controlled. • Refer to the Chemical Fallow General Information section.
Wheat-Fallow- Wheat Rotations (Spring applied; seeded 3-5 months later)		Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		<ul style="list-style-type: none"> • Application should be made March 1 to April 15, prior to spring rains to conserve moisture. • Volunteer wheat is easier to control after the boot stage, but soil moisture loss will be greater. • Use at least 1.6 pints of this product per acre with a PSI (see page ____) for volunteer wheat or downy brome control in the spring. • Tank mix with Bladex for enhanced burndown, however, low rates (less than 2 lbs. active) of Bladex may not provide complete control of volunteer wheat and downy brome. • Refer to the Bladex label for specific use rates for your soil type, use directions, cautions and a list of weeds controlled. • Refer to the Chemical Fallow General Information section. • Tank mix with metribuzin (Sencor 75DF) for burndown and residual control of grass and broadleaf weeds. • Refer to the metribuzin (Sencor 75DF) label for use rates for your soil type, use directions, cautions and weeds controlled.
Wheat - Annual Crop ¹ - Wheat Rotations (Fall applied in wheat stubble)	Broadcast	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		<ul style="list-style-type: none"> • Tank mix with Atrazine and/or Bladex or Marksman for enhanced burndown and residual weed control. Refer to the label(s) for specific use rates for your soil type, use directions, cautions and a list of weeds controlled. • Spray after wheat harvest and before weeds produce seed. If grasses, such as foxtails or barnyardgrass, recover respray before they develop seed. • Volunteer wheat and downy brome are easier to control with late August to November applications. • Refer to the Chemical Fallow General Information section. <p>¹Approved annual crops are grain, sorghum, corn, wheat or proso millet.</p>
Wheat - Annual Crop - Wheat Rotations (Spring applied prior to planting an annual crop ¹)	Broadcast	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		<ul style="list-style-type: none"> • Tank mix with Atrazine and/or Bladex for enhanced burndown and residual weed control. Refer to the label(s) for specific use rates for your soil type, use directions, cautions and a list of weeds controlled. • Use at least 1.6 pints of this product per acre with a PSI (see page ____) for volunteer wheat or downy brome control in the spring. • Tank mix with Bladex for enhanced burndown, however, low rates (less than 2 lbs. active) of Bladex may not provide complete control of volunteer wheat and downy brome. • Follow the Atrazine recommendations pertaining to soil pH and recropping intervals. • Refer to the Chemical Fallow General Information section. <p>¹Approved annual crops are grain, sorghum, corn, wheat or proso millet.</p>

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Clover and Other Legumes¹

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Dormant Season					
On established plantings: Region A-See map at end of Alfalfa section.	Broadcast	1.5 - 2.5 pints	Ground: 10 gal. Air: 5 gal.	60	<ul style="list-style-type: none"> For desiccation of weeds, including London rocket, sowthistle, rescue brome, wild oats, chickweed, ryegrass, bluegrass, cheatgrass, dogfennel, tansymustard, henbit, downy brome and other winter annuals, and suppression of perennial weeds. Apply during late fall or winter months after the last fall cutting and before first spring cutting. Do not apply if regrowth after grazing or cutting is more than 2 inches. Do not harvest within 60 days of application. Caution: Applications to clover or other legumes that are not dormant, or have broken dormancy, may result in stand and/or yield reductions. Replanting may be necessary. Green clover or other legumes foliage present at the time of application will be burned. Clover or other legumes foliage present at time of application will be discolored and temporarily stunted. Total hay yield of first cutting may be reduced in clover or other legumes fields with severe weed infestation. This reduction will usually be directly proportionate to the loss of weed weight. Do not apply more than once per season. <p>California:</p> <ul style="list-style-type: none"> For desiccation of weeds including bluegrass, ryegrass, shepherdspurse, chickweed, tansymustard, foxtail, sowthistle and groundsel. Use high rate if ryegrass, shepherdspurse, sowthistle or groundsel is present. <p>¹Other legumes include velvetbean, lespedeza, lupine, sainfoin, trefoil, vetch, crown vetch and milk vetch.</p>
On established plantings: Region B-See map at end of Alfalfa section.	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	60	
On fall-seeded, newly established stands less than 1 year old: Region A-See map at end of Alfalfa section.	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	60	
On fall-seeded, newly established stands less than 1 year old: Region B-See map at end of Alfalfa section.	Broadcast	0.4 - 1.0 pint	Ground: 10 gal. Air: 5 gal.	60	

Corn
Field Corn, Popcorn, Sweet Corn and Seed Corn

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Used Alone	Preplant or Preemergence Broadcast or Banded Over Row	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Includes field, fresh, sweet, forage, fodder and popcorn. Seedbeds should be formed as far ahead of planting and treatment as possible to permit maximum weed and grass emergence. Seeding should be done with a minimum amount of soil disturbance. Weeds and grasses emerged at time of application will not be controlled. Crop plants emerged at time of application will be killed.
Tank Mixes for No-till/Reduced Till	Preplant or Preemergence Broadcast or Banded Over Row	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 3.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 10 gal. Air: 5 gal.*		<ul style="list-style-type: none"> Apply as a broadcast spray before, during or after planting, but before crop emergence. For improved burndown or residual control, this product may be tank mixed with the following herbicides: 2,4-D ester (Low Volatile), Aatrex/Atrazine, Banvel, Bicep, Bicep Lite[®] herbicide, Bladex, Dual[®] herbicide, Extrazine, Frontier, Griffex, Guardsman, Harmony[®] Extra (preplant only), Harness, Harness Xtra, Lasso[®] herbicide, Linex, Lorox, Princep, Prowl[®] herbicide, Simazine, Surpass EC, Surpass 100 and Topnotch. This product may also be tank mixed with Ambush[®] insecticide. Refer to respective product label(s) for application rates, directions for use, limitations, cautions and a list of weeds or insects controlled. <p>*Refer to respective product label(s) to determine if these products may be applied by air.</p>

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Corn
Field Corn, Popcorn, Sweet Corn and Seed Corn (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Postemergence Directed Spray (Including Hooded or Shielded)	0.8 - 1.6 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Apply when weeds are actively growing. Use higher rate on larger or hard to control weeds. Weeds 6 inches or taller may not be controlled. Severe damage and/or complete kill can occur if spray contacts corn plants. <p>Hooded or Shielded Sprayers:</p> <ul style="list-style-type: none"> To avoid excessive crop phytotoxicity, use a hooded or shielded sprayer with skids or wheels on the spray boom to maintain spray height. Apply by directing spray between the rows and using hooded or shielded sprayers to prevent spray contact with crop plants. <p>Directed Spray Without Hooded or Shielded Sprayers:</p> <ul style="list-style-type: none"> Apply when corn is at least 10 inches tall with nozzles arranged to spray no higher than the lower 3 inches of corn stalks. Corn plants shorter than 10 inches may be injured and not recover (corn height measured from soil surface to top or whorl). For corn greater than 20 inches tall, arrange the nozzles to spray no higher than the lower 1/3 of the corn stalks. Corn foliage sprayed will be injured, but the crop will recover and develop normally.
Field Corn Only (grain, fodder, forage)	Postemergence directed spray USDA witchweed eradication program	1.6 pints	Ground 10 gal.		<ul style="list-style-type: none"> Initiate sprays in late June to early July and repeat in early August if regrowth occurs. Follow application instructions in postemergence directed spray section above.
Field Corn Only (grain, fodder, forage) 2,4-D Amine Tankmix	Postemergence directed spray USDA witchweed eradication program	6.5 fl. oz. + 0.5 lbs. 2,4-D Amine AE	Ground: 10 gal.		<ul style="list-style-type: none"> Apply as a directed spray onto grassy weeds and witchweed before witchweed blooms. Reapply if regrowth occurs. Follow application instructions in postemergence directed spray section above.

Cotton

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Used Alone	Preplant or Preemergence	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply prior to, during or after planting, but before crop emergence. For fallow bed treatment, beds should be preformed to permit maximum weed and grass emergence prior to treatment. Seeding should be done with a minimum of soil disturbance. For control of volunteer barley in preformed seedbeds.
California Only (used alone)	Preplant	6.5 - 12.8 fl. oz.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> For control of volunteer barley in preformed seedbeds.
Goal® herbicide Tankmix	Preplant or Fallow Bed	0.8 - 3.2 pints	Ground: 10 gal. Air: 10 gal.		<ul style="list-style-type: none"> Refer to Goal label for specific use directions, restrictions and weeds controlled.
Bladex Tankmix	Preplant	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Refer to Bladex label for specific use directions, restrictions and weeds controlled.
Other Tankmixes	Preplant or Preemergence	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply as a broadcast spray before, during or after planting, but before crop emergence. For improved burndown or residual control, this product may be tank mixed with the following herbicides: Cotoran® herbicide, Meturon® herbicide, Cotton-Pro® herbicide, Carparol® herbicide, Diruon, Harmony Extra (preplant only), MSMA, Zorial® herbicide, Dual and Prowl. When tank mixing with Cotoran DF or Meturon DF carefully follow mixing instructions in the <i>Order of Tank Mixing</i> section and maintain constant agitation. When tank mixing with any of the herbicides listed above, refer to that product's label for specific directions, restrictions and a list of weeds controlled.

Cotton (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Harvest Aid			3	<p>Harvest Aid Use Precautions and Restrictions (Applies to all sections):</p> <ul style="list-style-type: none"> Do not pasture livestock in treated fields or feed treated foliage. Do not apply to cotton within 3 days of harvest. Repeat application if necessary. Do not exceed a total of 1.6 pints per acre as a harvest aid. May be tankmixed with other cotton harvest aid materials known to be effective by the local expert. Unless otherwise instructed in this label, refer to tankmix product label(s) for rates, directions, limitations and cautions. This product can be applied in a tankmix with methyl parathion and/or Karate® insecticide. Nodes above cracked bolls (NACB) timing is for guidance and is not intended to restrict the local expert in their use of the product.
<p>Southern Cotton: Harvest aid for boll opening and defoliation (Tank mix with phosphate and chlorate defoliants)</p>	Broadcast	6.5 fl. oz. + 1 pt. phosphate or 1 gal. chlorate	Ground: 10 gal. Air: 5 gal.	7	<ul style="list-style-type: none"> Development of immature bolls will be inhibited. Apply when 80% or more of the bolls are open and the remaining bolls to be harvested are mature.
<p>Southern Cotton: Additional Tankmixes for boll opening and defoliation</p>	Broadcast	2.5 - 4.0 oz.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> To aid in defoliation and opening of mature bolls, this product may be tank mixed with the following products: Accelerate® defoliant, DEF® defoliant, Dropp® defoliant, Ethepon plant growth regulant, Folex® defoliant, Harvade® harvest growth regulant and Prep™ PGR. Apply when 60% or more of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls will be inhibited. Refer to tank mix product label(s) for rate, directions, limitations and cautions.
<p>Southern Cotton: Post Defoliation - to aid in opening of mature bolls and to desiccate green weeds</p>	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	3	<ul style="list-style-type: none"> Use higher rate if weed infestation is heavy or dense. Apply when 75% or more of the bolls are open and remaining bolls to be harvested are mature. Development of immature bolls will be inhibited. After a defoliation or conditioning application has been made, delay desiccation application of this product approximately 3 to 7 days to minimize leaf sticking.
<p>Western Cotton: Harvest aid for boll opening and early defoliation</p>	Broadcast	4.5 - 6.5 fl. oz. + phosphate or sodium chlorate; and/or other compatible harvest aid products	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Use high rate of this product on rank cotton. Do not use more than 6.5 fl. oz. of this product for early defoliation as excessive desiccation may occur. Early defoliation timing is when 60% or more of the bolls are open and the remaining bolls to be harvested are mature (approximately 4 NACB). Development of immature bolls will be inhibited. Do not use more than 4.0 lbs. of actual sodium chlorate defoliants per acre at this early defoliation timing.
<p>Western Cotton: Harvest aid for boll opening and mid-to-late defoliation</p>	Broadcast	6.5 - 12.8 fl. oz. alone or tank mix with sodium chlorate or phosphate defoliant and/or other compatible harvest aid products		3 (alone)	<ul style="list-style-type: none"> In desert cotton areas or on rank vigorous cotton, use the 12.8 fl. oz. rate of this product. Mid-to-late defoliation timing is when 75% or more of the bolls are open and remaining bolls to be harvested are mature (approximately 3 or fewer NACB). Development of immature bolls will be inhibited.

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Cotton (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Stripper or Spindle Harvested Harvest aid for defoliation and boll opening	Broadcast	2.5 - 9.0 fl. oz.	Ground: 10 gal. Air: 5 gal.	3	<ul style="list-style-type: none"> It is advisable, because of extremes in environmental and plant conditions, to apply the range of rates on a small block of cotton to determine the rate that best fits your needs. Apply when 75% of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls will be inhibited. Slice bolls and inspect the seed for maturity. This product may be applied alone or tank mixed with the following cotton harvest aids: Accelerate® defoliant, DEF® defoliant, Dropp® defoliant, Ethephon plant growth regulant, Folex® defoliant, Harvade® harvest growth regulant and Prep™ PGR. May be applied as a split application. Do not exceed a total of 1.6 pints per acre. To avoid leaf sticking, apply this product as a desiccant approximately 3 to 7 days after defoliation or a conditioning application and 7 to 14 days before harvest. Cooler temperatures may cause a longer waiting period between application of this product as a desiccant and defoliation/conditioning. Lower rates in the range may be necessary south of I-10 in Texas where temperatures are typically higher during defoliation.
Late season desiccation	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	3	<ul style="list-style-type: none"> It is advisable, because of extremes in environmental and plant conditions, to apply the range of rates on a small block to determine the rate that best fits your needs. May be applied as a split application. Do not exceed a total of 1.6 pints per acre. Apply when 85% of the bolls are open and the remaining bolls to be harvested are mature (approximately 0 NACB). Development of immature bolls will be inhibited. Slice bolls and inspect the seed for maturity. Lower rates in the range may be necessary south of I-10 in Texas where temperatures are typically higher during defoliation. If a defoliation or conditioning application has been made, delay desiccation application of this product approximately 3 to 7 days to minimize leaf sticking. May be tankmixed with other harvest aid materials known to the local expert to be effective.
Desiccation of regrowth	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	3	<ul style="list-style-type: none"> Use to desiccate regrowth occurring after defoliation or desiccation. Regrowth is difficult to control, therefore, thorough coverage with the full recommended rate is necessary. Control is dependent on growing conditions and desiccation of small new regrowth may not always be complete. Use higher rate if regrowth is excessive.

Easter Lilies

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Field grown	Preemergence	1.6 - 3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Do not apply more than twice per season.

Fallow Land

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Prior to planting of any crops	Preplant Broadcast to Fallow Land	1.3 - 2.7 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Fallow land may be between operations such as disking, ripping, plowing, leveling, irrigating or listing for ground preparation purposes. Use for the control of weeds such as bluegrass, chickweed, henbit, downy brome, ryegrass, cheatgrass, dogfennel, tansymustard, London rocket, sowthistle, rescue brome, wild oats, volunteer cereals and other winter annuals and for suppression of perennial weeds or sedges. Use the higher rate for weeds approaching the maximum size of 6 inches. Do not make more than two applications during the fallow period. Allow maximum weed emergence prior to application to maximize the benefit of this use. Adhere to the preharvest intervals and other crop specific restrictions for planted crops elsewhere on this label.

Grasses

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
For seed (for use in seedbed preparation)	Preplant, at Planting or Preemergence	1.6 - 3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Prepare the seedbeds and allow weeds to germinate. Apply this product when weeds are at the 3 to 5 leaf stage. Repeat applications as necessary prior to grass emergence. Do not graze treated areas or use the seed or straw from treated areas for animal feed or bedding.

Guar

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Preharvest desiccation	Preharvest	1.6 pints	Ground: 10 gal.	4	<ul style="list-style-type: none"> Apply after the pods are fully mature. Do not graze treated areas or use the treated forage for animal feed.

Guava

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Directed Spray	3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Do not allow spray to contact green stems, fruit or foliage. Do not graze treated areas. Do not feed cover crops grown in treated areas to livestock. For mature woody weeds, late-germinating weeds and grasses and perennials, retreatment or spot spraying may be necessary.

Hops

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Idaho, Oregon and Washington only	Directed Spray and/or Suckering and Stripping	1.6 pints	Ground: 10 gal.	14	<ul style="list-style-type: none"> Retreatment or spot treatment may be necessary. Do not apply more than 3 times per season. Do not allow spray to contact green stems, foliage, flowers or cones as injury may result. Do not allow animals to graze in treated hopyards. Hop vine refuse and silage may be fed to livestock. For suckering and stripping, spray only the basal 2 feet of the vines. Repeat as necessary. Experience with varieties other than Cascade, Yakima Cluster and Bullion is limited. If using this product on other varieties than these, test the use pattern on a small number of vines of each variety to determine sensitivity to injury. Do not use on unlisted varieties if unacceptable crop injury occurs. Chemical Pruning: To burn back existing vines and obtain even emergence of subsequent vines, spray when vines are less than 3 feet tall. Application to hop vines less than 6 feet tall may cause unacceptable injury.

Lentils

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Harvest Aid	1.0 - 1.5 pints	Ground: 20 gal. Air: 7 gal.	7	<ul style="list-style-type: none"> Add nonionic surfactant at 0.25% v/v (2 pints per 100 gallons) of the finished spray volume. May also be applied as a split application. Do not make more than 2 applications or exceed a total of 1.5 pints per acre. The split application may improve coverage. Apply when crop is mature and at least 80% of the pods are yellowing and mostly ripe with no more than 30% of the leaves still green in color. Do not apply when weather conditions favor spray drift. A drift control agent may be included to reduce spray drift (see <i>Drift Minimization</i> section on label). Not registered for use on lentils in California.

Mint

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Peppermint and Spearmint	Dormant Season	1.2 - 2.4 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> For suppression of weeds such as Italian ryegrass, prickly lettuce, groundsel, chickweed, downy brome and bluegrass. Apply when crop is dormant before spring growth begins and when weeds are less than 6 inches tall. Do not apply more than 2.4 pints per acre per season. May be tank mixed with Sinbar® herbicide (terbacil) weed killer for improved contact activity and residual control of Italian ryegrass, prickly lettuce and groundsel. Apply this tank mixture no more than once per season. Refer to the Sinbar label for rates, directions, cautions and a list of weeds controlled.

Onions (seeded) and Garlic

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence	1.6 - 3.2 pints	Ground: 10 gal.	60 200 (CA only)	<ul style="list-style-type: none"> Use the higher rate for heavy weed infestations or wild oat control. Apply only one application per season at the 3.2 pint per acre dosage. Allow maximum weed and grass emergence prior to treatment but apply prior to crop emergence. Apply a maximum of 3.2 pints per acre per season.

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Passion Fruit

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Directed Spray	3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Use a shield or wrap vine if bark is still green at application time. If application is to be made during harvest season, pick all fruit off the ground prior to application. Do not allow animals to graze on treated areas. Retreatment or spot treatment may be necessary.

Peanuts

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Broadcast at Ground Crack Postemergence	6.5 - 12.8 fl. oz.	Ground: 10 gal.		<ul style="list-style-type: none"> To control or suppress small (1 to 6 inches) emerged annual grass and broadleaf weeds in peanuts at ground crack. A second application may be made up to 28 days after ground crack. Make no more than two applications per season and do not apply a total of more than 12.8 fl. oz. of product per acre per season. For at ground crack use, this product can be tank mixed with Pursuit® herbicide or Dual for residual weed control. Consult the Pursuit or Dual labels for a list of weeds controlled, application rates and use precautions and restrictions. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally. Do not apply by air.
Basagran® herbicide tankmix	Broadcast at Ground Crack Postemergence	6.5 - 12.8 fl. oz.	Ground: 10 gal.		<ul style="list-style-type: none"> For improved control of weeds such as cocklebur, bristly starbur, smartweed and prickly sida, tank mix this product with Basagran at 1 pint per acre. This tankmix can be applied at the ground crack stage of peanuts. A second application may be made up to 28 days after ground crack. Make no more than two applications per season and do not apply a total of more than 12.8 fl. oz. of product per acre per season. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally. Refer to the Basagran label for specific use directions, limitations, cautions and a list of weeds controlled. Do not apply this tankmix if peanuts show injury (leaf phytotoxicity and/or plant stunting) produced by any other herbicide treatment as injury may be enhanced and/or prolonged. Do not apply this tankmix during prolonged periods of drought or unseasonably cold weather as unsatisfactory weed control may result. Do not apply by air.
Butyrac® herbicide or Butoxone™ 200 herbicide tankmix	Broadcast Postemergence	6.5 - 12.8 fl. oz.	Ground: 10 gal.		<ul style="list-style-type: none"> For improved control of weeds such as cocklebur, sicklepod and morningglory tank mix this product with 8 to 16 oz. (0.125 to 0.25 lbs.) per acre of Butyrac or Butoxone 200. Make no more than two applications per season and do not apply a total of more than 12.8 fl. oz. of product per season. Crop foliage sprayed will be injured in the form of bronzing and crinkling but the crop will recover and develop normally. Refer to the complete Butyrac or Butoxone 200 labels for specific use directions, limitations, cautions and a list of weeds controlled. Do not apply by air.

Pigeon Peas

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Puerto Rico Only	Directed Spray	1.6 pints	Ground: 10 gal.	60	<ul style="list-style-type: none"> Avoid contact with pigeon pea foliage. Do not make more than 1 application per season. Do not graze treated areas or feed treated forage to livestock. Cannery waste can be fed to livestock.

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Pineapple

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Directed Spray	1.6 - 3.2 pints	Ground: 10 gal.	20	<ul style="list-style-type: none"> Retreatment may be necessary on more mature weeds. Do not exceed 3 applications per season.

Potato

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply up to ground cracking before potatoes have emerged.
California, Idaho, Oregon and Washington only (used alone)	Preplant Broadcast	6.5 - 12.8 fl. oz.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> For control of volunteer barley in preformed seedbeds.
Fresh Market Only: Preharvest vine killing and weed desiccation For Use only in the states of: CO, DE, ID, IL, IN, KS, ME, MD, MA, MI, MN, NE, NV, NY, ND, OH, OR, PA, SD, UT, WA, WI and WY	Broadcast	13.0 - 24.0 fl. oz.	Ground: 20 gal.	3	<p>Only for Fresh Market Potatoes</p> <ul style="list-style-type: none"> Do Not use on potatoes that will be stored, as tuber decomposition may result. Potatoes must be harvested promptly after desiccation. Do Not apply to drought stressed potatoe vines. Do Not use to desiccate the vines of seed potatoes as seed pieces may fail to germinate and grow normally. Do Not pasture livestock in treated potato fields. Do Not use on muck or peat soils to avoid injury to subsequent crops. Do Not exceed 3.0 pts./acre per season. Begin application when leaves begin to turn yellow. Immature potato foliage is tolerant to this product. Desiccation will not be complete under this condition. Use the 24 fl. oz. per acre rate where quick vine kill is desired. Use two applications of 13 fl. oz. per acre when vine growth is dense. Split applications must be applied a minimum of 5 days apart.

Rice

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence Broadcast	<p>Weeds 1 to 3": 1.5 - 2.0 pts.</p> <p>Weeds 3 to 6": 2.0 - 2.5 pts.</p> <p>Weeds 6": 2.5 - 3.2 pts.</p>	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply as a broadcast spray before, during or after planting, but before crop emergence. Use higher rates and spray volumes when vegetation is dense. Seeding should be done with a minimum amount of soil disturbance. Weeds and grasses emerging after application will not be controlled. Crop plants emerged at time of application will be killed. For improved or extended weed control, this product may be tank mixed with other herbicides registered for this use. Refer to tankmix herbicide label(s) for specific directions, limitations, cautions and a list of weeds controlled. Do not flood/flush within 48 hours of application in order to ensure complete kill of vegetation. If cool, cloudy and/or wet weather delays speed of kill, do not flood/flush until complete kill is evident.

Safflower

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence Broadcast or Banded Over Row	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply before, during or after planting but before crop emergence.
California Only	Preplant Broadcast	6.5 - 12.8 fl. oz.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> For control of volunteer barley in preformed seedbeds.

Small Grains

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Barley and Wheat	Preplant or Preemergence	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		
Wheat Only - Hoelon 3EC Tankmix	Preplant or Preemergence	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 5 gal. Air: 5 gal.		<ul style="list-style-type: none"> A tankmix with Hoelon 3EC will improve grass control. Apply when weeds are actively growing and 1 to 6 inches in height. Weeds 6 inches or taller may not be controlled. Do not apply this tankmix to Barley as crop injury may result.

Sorghum

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Grain	Preplant or Preemergence Broadcast or Band	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Seedbeds should be formed as far ahead of planting as possible to allow maximum weed and grass emergence. Seeding should be done with a minimum amount of soil disturbance.
Grain - Atrazine and 2,4-D ester (Low Volatile) Tankmix	Preplant or Preemergence	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> This product may be tank mixed with Atrazine for improved preemergence or residual weed control. The addition of 2,4-D ester (Low Volatile) may aid in the suppression of perennial and annual broadleaf weeds emerged at the time of application. Refer to the specific tankmix herbicide label(s) for rates, directions, limitations, cautions and a list of weeds controlled.
Grain - Harmony Extra Tankmix	Preplant or Preemergence	1.5 - 3.0 pints	Ground: 10 gal.	48 (Grain) 20 (Forage)	<ul style="list-style-type: none"> This product may be tank mixed with Harmony Extra for improved weed control. Refer to the Harmony Extra label for rates, directions, limitations, cautions and a list of weeds controlled.
Grain	Postemergence Directed Spray (Including Hooded or Shielded)	0.8 - 1.6 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Apply when weeds are actively growing. Use higher rate on larger or hard to control weeds. Weeds 6 inches or taller may not be controlled. Severe damage and/or complete kill can occur if spray contacts sorghum plants. Do not exceed two postemergence-directed applications or exceed a total of 6.4 pints per season. <p>Hooded or Shielded Sprayers:</p> <ul style="list-style-type: none"> To avoid excessive crop phytotoxicity, use a hooded or shielded sprayer with skids or wheels on the spray boom to maintain spray height. Apply by directing spray between the rows and using hooded or shielded sprayers to prevent spray contact with crop plants. <p>Directed Spray Without Hooded or Shielded Sprayers:</p> <ul style="list-style-type: none"> Apply when sorghum is at least 12 inches tall when naturally standing. Do not exceed 30 psi nozzle pressure or spray under conditions that may cause excessive drift. Use precision directed-spray application equipment adjusted so that no more than the lower 3 inches of the sorghum stalk is contacted by the application spray. Some crop injury will occur. The degree of injury is related to the precision of application and spraying conditions.

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Soybeans

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Do not exceed a total of 4.8 pints of this product per season. Apply as a broadcast spray before, during or after planting, but before crop emergence. For improved burndown or residual control, this product may be tank mixed with the following herbicides: 2,4-DB, Canopy, Dual, Goal, Harmony Extra (preplant only), Lasso, Lexone, Linex, Lorox, Lorox Plus, Prowl, Pursuit herbicide, Scepter® herbicide, Sencor, Surflan® herbicide and Turbo® herbicide. The rate of this product to be used in these tank mixtures is dependent on weed height and growing conditions. Use the highest recommended rate under dry conditions or where the weed canopy is dense. Refer to the specific tank-mix herbicide label(s) for rates, directions, limitations, cautions and a list of weeds controlled. The lower rate may be used when weeds are less than 4 inches tall and a selective postemergence spray or cultivation will be made within 3 weeks after planting. Seeding should be done with a minimum amount of soil disturbance. Do not graze or harvest for forage or hay before the R3 stage of soybean development (early pod).
2,4-D ester (Low Volatile) Tankmix	Preplant or Preemergence	Weeds 1 to 3": 0.8 - 2.0 pts. Weeds 3 to 6": 2.0 - 2.5 pts. Weeds 6": 2.5 - 3.2 pts.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply 2,4-D ester (Low Volatile) at 0.35 to 0.475 lbs. ai/A at least 7 days prior to planting. Apply 2,4-D ester (Low Volatile) at 0.475 to 0.95 lbs. ai/A at least 30 days prior to planting. Do not apply 2,4-D ester (Low Volatile) prior to planting soybeans if you are not prepared to accept the results of soybean injury including possible loss of stand and yield. Do not use the amine formulation as this product's activity may be reduced. May be tank mixed with residual herbicides listed above. Refer to the 2,4-D ester (Low Volatile) label for rates, directions, limitations, cautions and a list of weeds controlled.
	Postemergence Directed Spray (Includes Hooded or Shielded)	3.2 - 6.4 fl. oz.	Ground: 10 gal.		<ul style="list-style-type: none"> Apply when weeds are actively growing. For control of seedling johnsongrass, crabgrass, goosegrass, <i>Brachiaria</i>, Texas millet and pigweed less than 2 inches tall, use the lower rate. For control of 2- to 4-inch red rice, <i>Brachiaria</i>, barnyardgrass, crabgrass, goosegrass, seedling johnsongrass, giant foxtail and fall panicum use 6.4 fl. oz.. For control of 2- to 3-inch sicklepod, purslane, pigweed, cutleaf ground cherry and common ragweed use 6.4 fl. oz. For control of 2- to 4-inch grasses in mixture with common cocklebur, morningglory and red rice, apply this product at 6.4 fl. oz. per acre plus 0.2 lb. active ingredient per acre of a 2,4-DB formulation. Refer to the 2,4-DB label for directions, limitations and cautions. Do not graze or harvest for forage or hay. If needed, make a second and final application 7 to 14 days later. <p>Hooded or Shielded Sprayers:</p> <ul style="list-style-type: none"> Apply by directing spray between the rows and using hooded or shielded sprayers to prevent spray contact with crop plants. Use higher rate on large (< 6 inches) or hard to control weeds. Weeds 6 inches or taller may not be controlled. Severe damage and/or complete kill can occur if spray intentionally or accidentally (including drift of fine droplets) contacts the plants. <p>Directed Spray Without Hooded or Shielded Sprayers:</p> <ul style="list-style-type: none"> Do not treat if soybeans are less than 8 inches tall. Use precision directed-spray application equipment adjusted so that no more than the lower 3 inches of the soybean plant is contacted by the application spray. Do not exceed 30 psi nozzle pressure or spray under conditions that may cause excessive drift. Some crop injury will occur. The degree of injury is related to the precision of application and spraying conditions.

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Soybeans (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Harvest Aid	6.5 - 12.8 fl. oz.	Ground: 20 gal. Air: 5 gal.	15	<ul style="list-style-type: none"> Indeterminant varieties: Apply when at least 65% of the seed pods have reached a mature brown color or when seed moisture is 30% or less. Determinant varieties: Apply when plants are mature, i.e., beans are fully developed, 1/2 of leaves have dropped and remaining leaves are yellowing. Immature soybeans will be injured. Mature cocklebur, especially drought-stressed plants, are tolerant to this product and desiccation will not be complete. Always use the higher rate for cocklebur. Do not apply within 15 days of harvest. Do not graze or harvest for forage or hay.

Strawberries

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Postemergence Directed Spray	1.6 pints	Ground: 20 gal.	21	<ul style="list-style-type: none"> Apply by directing spray between the rows and using shields to prevent spray contact with crop plants. Do not allow spray to contact strawberry plants as injury or excessive residues may result. Do not apply more than 3 times per season. Do not graze livestock in treated areas.

Sugar Beets

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Use the higher rate for heavier weed infestations. Seeding or transplanting should be done with a minimum amount of soil disturbance. Crop plants emerged at time of application will be killed. Can be used in fallow bed/stale seedbed for weed control. Seedbeds or plantbeds should be formed as far ahead of treatment as possible to permit maximum weed emergence.

Sugarcane

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Postemergence Directed Spray (Includes Hooded or Shielded)				<p>General Comments:</p> <ul style="list-style-type: none"> Apply as a hooded, shielded or directed spray to avoid contact with cane foliage to prevent leaf burn and yield reduction. Make a second and final application, if necessary, when new weed growth is 2- to 6-inches high. Do not graze treated areas or feed treated forage to livestock.
Florida		1.6 pints	Ground: 50 gal.		<ul style="list-style-type: none"> For optimum results, apply in early spring (March-April) when weeds are small. Do not apply after June 1 as cane growth may be stunted and yields reduced.
Hawaii		1.6 pints	Ground: 20 gal.		<ul style="list-style-type: none"> Do not apply after can rows have closed in.
Louisiana		0.8 - 2.4 pints	Ground: 20 gal.	30	<ul style="list-style-type: none"> For tiller control, apply when tillers are less than 18 inches high. Use the higher rate for heavier weed infestations or tiller growth.
Florida and Texas	Harvest Aid	6.5 - 12.8 fl. oz.	Air: 5 gal.		<ul style="list-style-type: none"> Use higher rate under cool, cloudy weather conditions. Apply 3 to 14 days before burning and harvest.

Sunflower

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
	Preplant or Preemergence Broadcast or Banded Over Row	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply before, during or after planting but before crop emergence.
	Preharvest Desiccation Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	7	<ul style="list-style-type: none"> Apply when sunflower seeds reach physiological maturity (when seed moisture is 35% or lower). For many varieties, this corresponds to the time when the back of the heads are yellow and the bracts are turning brown. Do not graze treated areas or feed treated forage to livestock. Use the higher rate when crop stands or weed infestations are heavy.

Taro (Dryland)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Hawaii Only	Postemergence Directed Spray	1.5 - 2.5 pints	Ground: 10 gal.	180	<ul style="list-style-type: none"> Do not allow spray to contact the taro plants as injury may result. Make the first application when weed growth is 1 to 4 inches high. Weeds emerging after the application will not be controlled. A single re-treatment may be made; however, do not harvest dryland taro within 6 months of the last application.

Tree Plantation Establishment

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Deciduous and Conifers	Preplant Broadcast	1.6 - 3.2 pints	Ground: 20 gal.		<ul style="list-style-type: none"> Prepare ground early to allow maximum emergence of weeds. Apply prior to planting. Plant with minimal soil disturbance. Use the higher rate for heavier weed infestations. For improved burndown or residual control, tank mix this product with other herbicides labeled for this use. Refer to the specific tankmix herbicide label(s) for rates, directions, limitations, cautions and a list of weeds controlled. Do not apply in less than 20 gallons per acre as weed control will be reduced.

Trees and Vines

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
<p>Orchards, Vineyards, Windbreak, Shade and Ornamental Trees: Acerola, Apples, Apricots, Avocados, Bananas, Beechnut, Brazil Nut, Butternut, Calamondin, Cashew, Cherries, Chestnut, hinquapin, Citrus Citron, Coffee, Crabapple, Figs, Filberts, Grapes, Grapefruit, Hickory Nut, Kiwi Fruit, Kumquat, Lemon, Lime, Loquat, Macadamia Nuts, Mandarin, Mayhaw, Nectarines, Olives, Orange (sour and sweet), Papayas, peaches, ears, Pear (oriental), Pecans, Pistachios, Plums, Prunes, Pummelo, Quince, Satsuma mandarin, Walnuts, Other shade and ornamental trees such as arborvitae, ash, elm, fir, oak, pine, etc.</p>	<p>Directed Spray</p>	<p>1.6 - 3.2 pints</p>	<p>Ground: 10 gal.</p>	<p>Apricots: 28 Cherries: 28 Figs: 13 Kiwi Fruit: 14 Nectarines: 28 Olives: 13 Peaches: 14 Pistachios: 7 Plums: 28</p>	<ul style="list-style-type: none"> Do not allow spray to contact green stems (except suckers), fruit or foliage. Use a shield or wrap plant when spraying around young trees or vines. Do not graze treated areas. Do not feed cover crops grown in treated areas to livestock. Do not apply when figs, nuts or olives to be harvested are on the ground. For apricots: do not harvest within 28 days after application and do not exceed 3 postemergence-directed applications per season. For cherries: do not harvest within 28 days after application and do not exceed 3 postemergence-directed applications per season. For figs: do not harvest within 13 days after application and do not exceed 5 postemergence-directed applications per season. For grapes: treat when sucker growth is no more than 8 inches long. Late season applications to weeds should be made to avoid contact with desirable foliage. For kiwi fruit: do not treat more than 3 times per year. For mature woody weeds, perennial weeds, late germinating weeds and green suckers, retreatment or spot treatment may be necessary. For nectarines: do not harvest within 28 days after application and do not exceed 3 postemergence-directed applications per season. For olives: do not harvest within 13 days after application and do not exceed 4 postemergence-directed applications per season. For pistachios: do not exceed two applications after shells split. For peaches: do not harvest within 14 days after application and do not exceed 3 postemergence-directed applications per season. For plums: do not harvest within 28 days after application and do not exceed 3 postemergence-directed applications per season.
<p>Tankmixes</p>	<p>Directed Spray</p>	<p>1.6 - 3.2 pints</p>	<p>Ground: 10 gal.</p>	<p>Refer to other tankmix labels</p>	<ul style="list-style-type: none"> This product may be tank mixed with registered residual herbicides listed below for combined emerged and residual weed control. Always refer to other herbicide label(s) for respective limitations, use precautions, restrictions, dates, directions and weeds controlled. This product may be tank mixed with the following herbicides: Goal, Devrinol® herbicide, Princep, Sinbar, Surflan, Soilcam® herbicide, Karmex and Krovar® herbicide.

Tyfon

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
New Hampshire Only	Preplant Preemergence	1.6 - 3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Seeding should be done with a minimum of soil disturbance. Weeds and grasses emerging after treatment will not be controlled. Crop plants emerged at time of application will be injured.

Vegetables

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Seeded or Transplanted: Beans (lima, snap), Broccoli, Brussels Sprouts, Cabbage, Cantaloupe, Carrots, Cauliflower, Cavalo Broccolo, Chayote Fruit, Chinese Cabbage, Chinese wax gourd, Citron melon, Collards, Cucumber, Eggplant, Gherkin gourd, Edible groundcherry (<i>Momordica</i> spp.), Kale, Kohlrabi, Lettuce, Mizuna, Muskmelons, Mustard greens, Mustard spinach, Peas, Pepino, Peppers, Pumpkin, Rape greens, Squash, Sweet Corn, Tomatillo, Turnips, Tomatoes, Watermelons	Preplant Preemergence	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Seedbeds or plantbeds should be formed as far ahead of treatment as possible to permit maximum weed emergence. Applications can be made as a banded or broadcast treatment before, during or after planting, but prior to the crop emergence. Use the higher rate for heavier weed infestations. Seeding or transplanting should be done with a minimum amount of soil disturbance. Crop plants emerged at time of application will be killed. Can be used in fallow bed/stale seedbed for weed control alone or tank mixed with Goal. Consult the Goal label for a list of weeds controlled, application rates and use precautions and restrictions. Do not harvest tomatoes within 30 days after application.
Eggplant, Tomatoes, Peppers	Directed Spray	1.6 pints	Ground: 10 gal.		<ul style="list-style-type: none"> For control or suppression of emerged weeds between rows after crop establishment. Use precision-directed spray application equipment adjusted to prevent spray contact with crop plants. Do not exceed 30 psi nozzle and pressure or spray under conditions that may cause excessive drift. Apply when weeds are succulent and weed growth is less than 6 inches. Do not apply more than 3 applications per season. Do not allow animals to graze in treated areas. Do not harvest tomatoes within 30 days after application.

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Vegetables (continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Chili Peppers (Hot) [LA, NM and TX]	Directed Spray	6.5 fl. oz. to 1.6 pints	Ground: 10 gal.		<ul style="list-style-type: none"> For control or suppression of emerged weeds between rows after crop establishment. Use precision-directed spray application equipment adjusted to prevent spray contact with crop plants. Do not exceed 30 psi nozzle pressure or spray under conditions that may cause excessive drift. Apply when weeds are succulent and weed growth is less than 6 inches. Use 6.5 to 12 fl. oz. to control 2- to 4-inch seedling johnsongrass, crabgrass, goosegrass, <i>Brachiana</i> spp., <i>Echinochloa</i> spp. and pigweed. Use 12 to 25 fl. oz. to control established bermudagrass and purple nutsedge. Do not apply more than 3 applications per season. Do not allow animals to graze in treated areas. Do not use on hot peppers within 8 weeks of transplanting.
Lettuce, Melon, Sugar Beets, Tomatoes [CA, TX, OR and WA only]	Broadcast	6.5 - 12.8 fl. oz.	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> For control of volunteer barley in preformed seedbeds. Do not harvest tomatoes within 30 days after application.
Rhubarb	Dormant	1.6 - 3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> Apply during dormant season before buds in crown begin to grow. Do not make more than 2 applications per season.

**Alfalfa - New Seedlings
California Only**

Suppression and control of broadleaf weeds and grasses in new alfalfa seedlings grown for hay.

For Control Of	Rate per Acre	
	For Suppression	For Control
Spikeweed (4 inches tall or less)	6.5 fl. oz.	12.8 to 19.2 fl. oz.
Volunteer Small Grain (8 inches tall or less)	6.5 to 12.8 fl. oz.	25.6 fl. oz.
Fiddleneck (6 inches tall or less)	6.5 to 12.8 fl. oz.	25.6 fl. oz.
Shepherdspurse	12.8 to 25.6 fl. oz.	
Annual Bluegrass		12.8 to 25.6 fl. oz.
Chickweed		12.8 to 25.6 fl. oz.
Red Maids (6 inches tall or less)		12.8 to 25.6 fl. oz.

Do not use the 6.5 fl. oz. rate unless the alfalfa has at least 3 trifoliate leaves; the 12.8 fl. oz. rate unless the alfalfa has 6 trifoliate leaves; or rates over 12.8 oz. unless there are 9 trifoliate leaves.

**Resin Soaking
Pines**

(Loblolly, Shortleaf, Longleaf, Slash, Virginia, Pond, Pitch and Spruce)

Tree Selection: Select trees to be treated from stands on sites not subject to periods of extreme drought stress as the desiccating effect of this product to pines is accentuated during such periods, causing a reduction in the amount of oleoresin deposited in the xylem. Select trees to be treated from vigorous, non-stagnated stands, either natural or planted. In stagnated stands or commercial timber stands, plan treating with this product not sooner than three years after a commercial thinning.

Application Directions: Apply this product, diluted in water, to a suitable wound in the tree trunk to bring the treatment into contact with the xylem (sapwood).

Bark Streaks or Cuts: This type of wound is made using a standard or rotary bark hack or a chainsaw chipping tool employed in naval stores work to remove a single one-inch wide streak of bark about 1 to 2 feet from ground level. The total length should not exceed 1/3 of the tree circumference. Multiple streaks or cuts can result in serious girdling of the trunk and premature death of the tree. A coarse spray (about 2 to 6 ml.) of this product in solution (1% to 5% cation,

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wt./wt. basis) should be applied to runoff to the exposed xylem, using a low-pressure sprayer. The amount of spray required per cut depends on tree circumference and the length of cut or streak (1/3 of circumference). For a 9-inch diameter tree, 3 ml. of spray will cover the 1-inch wide streak. Using 3 ml. of a 2% or 4% solution will result in application of 60 or 120 mg. Herbiquat Herbicide per streak.

Time of Treatment: Resin soaking can occur from treatments made any time of the year; however, cool season treatments under non-drought conditions usually result in less severe pine beetle infestations and longer tree life.

Interval Between Treatment and Tree Harvest: The interval between application of this product and tree harvest should be a minimum of 6 months and preferably from 12 to 24 months. Intervals of over 6 months may not be possible under conditions of drought or serious pine beetle attacks, which may make early harvest necessary. The Herbiquat Herbicide treatment may encourage beetle attack, or may cause premature death of the tree. Desiccation of the xylem tissue, rather than the desired resin soaking, may occur and is more likely at higher dosage rates.

Effect on Stem Growth: Treatment can result in reduced stem growth during the interval between treatment and tree harvest.

Dilution Table For Herbiquat Herbicide (2.5 Pounds Cation Per Gallon)	
Concentration of Cation Desired (Wt./Wt. Basis)	To 3/4 Gallon of Herbiquat Herbicide Add The Following Number of Gallons of Water
0.2%	118.8
0.5%	46.8
1.0%	22.9
2.0%	10.9
3.0%	6.9
4.0%	4.9
5.0%	3.7

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.

Do not enter or allow others to enter the treated area until sprays have dried. Avoid working in spray mist. Keep all unprotected persons out of operating areas or vicinity where there may be danger of drift. Certain states may require more restrictive reentry intervals; consult your state pesticide regulation entity for further information.

Other Uses

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Conservation Reserve, Federal Set-Aside, Conservation Compliance Programs: For use in compliance with the Federal Conservation Reserve Program or Federal Set-Aside programs	Broadcast	1.6 - 3.2 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> For improved emerged weed control or extended weed control, this product may be tank mixed with other herbicides registered for this use. Refer to tank mix herbicide label(s) for specific directions, limitations, cautions and a list of weeds controlled.

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Other Uses (Continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Non-crop uses	Broadcast or Spot Treatment	1.6 - 3.2 pints	Ground: 10 gal.		<ul style="list-style-type: none"> For use in non-crop areas such as public airports, electric transformer stations, pipeline pumping stations, around commercial buildings, storage yards and other installations, fence lines or similar noncrop areas. Avoid contact with the foliage of ornamentals or desired plants. Repeat as necessary.
Pasture Reseeding: For suppression of existing sod and undesirable emerged broadleaf weeds and grasses prior to or at time of planting grasses or forage legumes	Broadcast	0.8 - 1.6 pints	Ground: 10 gal. Air: 5 gal.	See specific geographic recommendation	<p>West of Cascade and Sierra Nevada Mountains:</p> <ul style="list-style-type: none"> Apply in October through December after first fall rains and after weeds have emerged and sod has started new growth. For best seeding results, apply on moderately to heavily grazed areas. Do not use in areas with heavy sod and weed growth. <p>East of the Rocky Mountains:</p> <ul style="list-style-type: none"> Use the 1.6 pint rate on vigorous or coarse sod species such as bromegrass. Apply prior to, or at time of seeding grasses or forage legumes. Apply only to grazed or mowed pastures not more than 3 inches in height at time of treatment. <p>Bermudagrass or Bahiagrass Sods:</p> <ul style="list-style-type: none"> Apply in late summer or early fall to sod not exceeding 3 inches in height. For control of emerged little barley, apply in February or March before the midboot stage of little barley. <p>Bermudagrass and Coastal Bermudagrass Pastures:</p> <ul style="list-style-type: none"> Apply when bermudagrass is dormant. For control of little barley, apply before the mid-boot stage. Do not mow for hay until 40 days after treatment.
Control of Endophyte-Fungus-Infected Fescue Forage Legume/Grass Mixture and Other Grass Pastures	Broadcast (Split Application)	0.8 - 1.6 pints followed by 0.8 - 1.6 pints.	Ground: 10 gal.		<ul style="list-style-type: none"> Use split applications 10 to 21 days apart if necessary. Do not exceed 3.2 pints per acre total in preparation for reseeding. For spring plantings, the initial application of 0.8 to 1.6 pints may be made the previous fall. Apply when fescue is actively growing and no more than 4 inches high. To reduce the infestation of endophyte-infested grass, do not allow fescue to go to seed starting with the preceding year's crop.
Prickly Pear Desiccation in Pastures (Not for use in California)	Spot Sprays	1.0 fl. oz. per gallon of water	Spray to wet weed foliage		<ul style="list-style-type: none"> Knapsack, backpack sprayers, pump-up pressure sprayers, hand guns, hand wands and other hand-held equipment can be used to direct the spray onto weed foliage for spray to wet applications. Mix 1.0 fl. oz. of this product and 1/3 fl. oz. of a nonionic surfactant per gallon of water. Spray coverage should be uniform and provide complete cover of all green prickly pear foliage. Apply in May through September for best desiccation results. Do not use more than 1.6 pints of this product per acre per year. Apply only to pastures with no more than 3 inches of height at time of treatment. For improved desiccation and perennial control of Prickly pear, tank mix with Grazon P+D Specialty herbicide at a rate of 1 to 2 fl. oz. per gallon of water. Refer to the Grazon P+D Specialty herbicide label for directions, use precautions and restrictions.
Juniper Species leaf moisture reduction or desiccation prior to prescribed burning of pastures	Broadcast	1.6 pints	Air: 5 gal.		<ul style="list-style-type: none"> Use only in conjunction with prescribed burning as recommended by local SCS or University and Extension Range Specialists. Apply during hot, dry weather conditions (generally July and August). Use 2% v/v nonionic surfactant in a minimum of 5 gpa spray solution. Juniper leaf moisture content should be monitored, however, maximum leaf moisture reduction generally occurs 3 to 4 weeks after application. Significant soil moisture and/or wet weather conditions prior to or after application will decrease the potential for Juniper Crown burns. Cool or humid weather conditions also adversely affect leaf moisture reduction. Do not graze livestock after application or prior to burning.

Other Uses (Continued)

Crop	Use Pattern	Herbiquat Herbicide Rate Per Acre	Minimum Total Spray Per Acre	Grazing or Preharvest Interval (Days)	Use Precautions/Restrictions/Comments
Native Pastures	Broadcast	1.25 to 1.5 pints	Ground: 10 gal. Air: 5 gal.		<ul style="list-style-type: none"> Apply this product for control of Downy and Japanese brome. Apply in spring after 90% node formation of brome species, but before full bloom. Emerged native perennial grasses will be burned by application, but application after 90% node formation will allow adequate time for native grasses to recover and attain maximum growth in the use season. Do not apply more than 1.5 pints of this product per year. Apply only to pastures with no more than 3 inches of height at time of treatment.

**Conversion Table
Herbiquat Herbicide to be Applied**

Fl. Oz. or Pints Per Acre	Pound Active Ingredient Per Acre
6.5 oz.	0.13
12.8 oz.	0.25
0.8 pt.	0.25
1.2 pt.	0.375
1.6 pt.	0.5
2.4 pt.	0.75
3.2 pt.	1.0

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