

IMAZAPIC GROUP 2 HERBICIDE



MARSHAL™

Imazapic

Herbicide

For use on Conservation Reserve Program (CRP) land, paved surfaces, pasture and rangeland

ACTIVE INGREDIENT:

Ammonium salt of imazapic (+/- 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid*)

% BY WT.

23.3%

OTHER INGREDIENTS:

76.7%

TOTAL

100.0%

*Equivalent to 21.9%(+/-) 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid 1 gallon contains 2.0 pounds of active ingredient as the free acid

EPA Reg. No. 66222-141-101563

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

For additional Precautionary Statements, Directions for Use and Storage and Disposal, see inside of this booklet.

D00001756
DPM00001826A 200501AV2
Net Contents:
2.5 Gallons

DISTRIBUTED BY
Environmental Science U.S., LLC
5000 CentreGreen Way, Suite 400
Cary, NC 27513



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6"

FIRST AID	
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15 to 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 INHALED:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	• 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash thoroughly with soap and water after handling and 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.
- Wash outside of gloves then remove after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

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

GROUNDWATER ADVISORY STATEMENT: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

SURFACE WATER ADVISORY STATEMENT: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of imazapic from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

DIRECTIONS FOR USE

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

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

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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. Noncrop weed control is not within the scope of the Worker Protection Standard. See the definition on this label of noncrop sites. Do not enter treated areas without protective clothing until sprays have dried.

RESISTANCE MANAGEMENT

For resistance management, Marshal™ Imazapic Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Marshal Imazapic Herbicide and other Group 2 herbicides. Weed species with acquired resistance to Group 2 herbicides may eventually dominate the weed population if Group 2 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Marshal Imazapic Herbicide or other Group 2 herbicides.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

To delay herbicide resistance:

- Avoid the consecutive use of Marshal Imazapic Herbicide or other target site of action Group 2 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Report any incidence of non-performance of this product against a particular weed species to your Environmental Science U.S., LLC retailer, representative or call 1-800-331-2867. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.

SPRAY DRIFT

AERIAL APPLICATIONS

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the application site.
- Do not apply when wind speeds exceed 15 miles per hour at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% of less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

GROUND BOOM APPLICATIONS

- User must apply with the release height recommended by the manufacturer, but no more than 3 feet above the ground or existing terrestrial vegetation unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

BOOMLESS GROUND APPLICATIONS

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE:

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

Controlling Droplet Size - Ground Boom

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

Controlling Droplet Size - Aircraft

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

Boom Height - Ground Boom: For ground equipment, the boom should remain level with the application site and have minimal balance.

Release Height - Aircraft: Higher release heights increase the potential for spray drift.

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

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

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

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

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

Boom-less Ground Applications: Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications: Take precautions to minimize spray drift.

PRODUCT INFORMATION

NONCROP AND CONSERVATION RESERVE PROGRAM (CRP) USES

For weed control and/or turf height suppression, mix Marshal Imazapic Herbicide with water and an adjuvant and spray it on specified noncropland areas including those that may be grazed or cut for hay, on Federal Conservation Reserve Program (CRP) land, rangeland (see **Instructions for Rangeland Use** elsewhere in the label), and pastures.

Marshal Imazapic Herbicide can be applied to the following noncropland use sites:

- rights-of-way (railroad, utility, pipeline and highway)
- railroad crossings
- utility plant sites
- petroleum tank farms
- pumping installations
- non-agricultural fence rows
- storage areas
- non-irrigation ditch banks
- prairie sites
- airports
- turf areas (on industrial, golf courses, recreation and non-residential sites)

Marshal Imazapic Herbicide can be used for weed control in order to release certain legumes, wildflowers, crown vetch, native prairiegrass, wheatgrass, "wildtype" common Kentucky bluegrass, smooth brome grass, bahiagrass, bermudagrass and other grasses.

For weed control during the establishment of native prairiegrass and other grasses, use Marshal Imazapic Herbicide as described in the **Revegetation with Prairiegrasses and other Forage Grasses** part of the label.

Marshal Imazapic Herbicide kills plants because the herbicide inhibits the activity of the enzyme acetohydroxy acid synthase (AHAS or ALS). Plant leaves, stems and roots readily absorb Marshal Imazapic Herbicide and translocate it throughout the plant where it accumulates in the meristematic tissue. Treated plants stop growing soon afterwards. Chlorosis appears first in the newest leaves, and tissue death spreads from these points. It may require several days to several weeks for susceptible weeds to die. Knowing about the activity on the AHAS or ALS enzyme is important because some naturally occurring weed biotypes of labeled weeds may not be controlled by Marshal Imazapic Herbicide or other herbicides with the same inhibiting mode of action. If resistant weed biotypes are present in the field, tank-mix Marshal Imazapic Herbicide and other herbicides with the same mode of action or apply sequentially with a registered herbicide with a different mode of action.

Soil moisture is critical for optimum Marshal Imazapic Herbicide weed control. With adequate soil moisture, Marshal Imazapic Herbicide will provide residual control of susceptible germinating weeds. Control of established weeds is dependent on the weed species and depth of the root system. Marshal Imazapic Herbicide is rainfast within one hour after application.

Marshal Imazapic Herbicide can be applied preemergence or postemergence to control annual and perennial grasses, broadleaf weeds and vine species and provide control of labeled weeds which germinate in the treated area. Direct application of Marshal Imazapic Herbicide to the foliage of certain brush species and ornamentals could lead to injury. The best weed control is achieved when Marshal Imazapic Herbicide is applied as a postemergence application, especially on perennial species. Since Marshal Imazapic Herbicide must be taken up by the plant and translocated to the meristematic tissue before it becomes effective, weeds must be actively growing at the time of postemergence applications. Include an adjuvant in all spray solutions (see **Spray Adjuvants for Postemergence Applications** section of this label). Applications can be made as broadcast treatments with ground spray equipment or as spot treatments with backpack sprayers.

Even though Marshal Imazapic Herbicide can be applied in the dormant or growing season, the weeds need to be actively growing for maximum control.

Marshal Imazapic Herbicide can cause injury to desirable grass species if the application is made to grasses that are under stress due to disease, insect damage and/or other causes. Some yellowing of desirable grasses may occur after an application of Marshal Imazapic Herbicide made during the growing season. This is dependent upon weather conditions and is usually short lived (2 to 4 weeks). Do not treat newly seeded or sprigged grass stands with Marshal Imazapic Herbicide unless approved on this label (see **Revegetation with Prairiegrass and other Forage Grasses** section of this label) or authorized by Environmental Science U.S., LLC in a supplemental label.

Important Precautions:

1. Do not apply Marshal Imazapic Herbicide to residential lawns.
2. Desirable trees and ornamental plants can be injured if rinsate from spray equipment used to apply Marshal Imazapic Herbicide is allowed to wash or move into contact with plant roots.
3. Do not apply Marshal Imazapic Herbicide to the inside of irrigation ditches.
4. Marshal Imazapic Herbicide can be applied to non-irrigation ditches and low lying areas as long as the water has drained.

Precautions and Restrictions to follow when making applications of Marshal Imazapic Herbicide for weed control, native grass establishment, and turf growth, suppression on pastures, rangeland, and noncrop areas:

- Do not use Marshal Imazapic Herbicide on food or feed crops except as specified on this or supplemental labeling provided by Environmental Science U.S., LLC.
- Do not cut treated area for hay within seven days after application.
- Do not use organophosphate insecticides on newly seeded areas treated with Marshal Imazapic Herbicide unless severe injury or loss of stand can be tolerated.
- Do not apply this product through any type of irrigation system.
- Do not exceed 12 ounces (0.19 lb imazapic acid equivalent (ae)) of Marshal Imazapic Herbicide per acre per year.
- Do not exceed 12 ounces of Marshal Imazapic Herbicide (0.19 lb ae) per acre per application.
- Do not exceed 2 applications per year when using reduced rates.
- Minimum Retreatment Interval: 7 days.
- When tank mixing with other products, read and carefully follow all applicable use directions, precautions, restrictions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.
- When making new plantings of prairiegrass or wildflowers, carryover from persistent herbicides such as sulfonfyl-urea, imidazolinone, triazine, substituted urea, dinitroaniline, and other herbicides applied the previous year may result in compounded injury or death of desirable vegetation when treated with Marshal Imazapic Herbicide.
- When making applications around desirable trees or ornamental plants, test small areas to determine the tolerance of a particular species to soil and/or foliar applications of Marshal Imazapic Herbicide. See section entitled **Tolerance of Trees and Brush to Marshal Imazapic Herbicide**.

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APPLICATION INSTRUCTIONS

Ground Application: Make a broadcast application of Marshal Imazapic Herbicide in a minimum of 2 gallons of spray per acre using ground application equipment. Calibrate the sprayer to deliver the specified spray volume and pressure at the spray boom height to ensure proper coverage of foliage and/or soil surface. The actual minimum spray volume per acre is determined by the spray equipment used. Adequate spray coverage of weed foliage postemergence or soil surface preemergence is important for maximum weed control. A complete and even distribution of spray is necessary. Avoid overlaps when spraying. When applications are made using less than 10 gallons of spray mixture per acre, use special application equipment designed to make low volume applications. Use a spray pressure of 20 to 40 psi.

Aerial Application: Use 2 or more gallons of spray mix per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift. Refer to the section entitled **Spray Drift Management** for additional precautions and restrictions. When making aerial applications, be especially careful to eliminate spray drift. Fixed wing aircraft and helicopters can be used to apply Marshal Imazapic Herbicide. Ensure appropriate buffer zones are maintained when using fixed wing aircraft.

Spot Treatment Application: In preparing the spray solution, mix thoroughly in water 0.25 to 1.5% (0.3 to 1.9 oz/gal solution) (0.005 - 0.03 lb ae/gal solution) Marshal Imazapic Herbicide plus an adjuvant (see **Spray Adjuvants for Postemergence Applications** section of this label). Use a methylated seed oil at 1% v/v as the spray adjuvant except when treating seedling prairiegrasses and wildflowers. When making spot applications, spray coverage must be sufficient to moisten the leaves but not to the point of runoff. Make sure the mixing container is opaque to sunlight or otherwise treated to shield for UV light. Marshal Imazapic Herbicide breaks down when mixed with water and exposed to sunlight. Mixtures of Marshal Imazapic Herbicide must be used within two days of being prepared to prevent breakdown of the active ingredient and maintain maximum effectiveness. See section on desired species and do not exceed the specified application rate per acre. Also see the sections entitled **Weeds Controlled** and **Special Weed Control**.

All Applications: Do not apply during windy or dusty conditions unless applications are being made with a drift control agent and/or an enclosed shielded spray system. Do not apply if rainfall is threatening. Rainfall within 1 hour of an Marshal Imazapic Herbicide application may reduce weed control. Uniformly apply specified rate and include a spray adjuvant (see **Spray Adjuvants for Postemergence Applications** section of this label). A foam reducing agent can be added at the specified rate if needed. Aerial applications to target species growing under the canopy of trees and brush may not receive sufficient coverage for effective control. For fall applications, delaying aerial application until trees and brush have dropped their leaves can improve coverage. See **Special Weed Control** and **Tolerance of Trees and Brush to Marshal Imazapic Herbicide** sections of this label for additional details. Avoid overlapping sprays.

Immediately and thoroughly clean all spray equipment, as prolonged exposure of this product to uncoated steel (except stainless steel) surfaces can cause corrosion and failure of the exposed part.

MIXING INSTRUCTIONS

Mixing with Water: Fill the spray tank at least one-half full of clean water. With the pump and agitator running, add the specified amount of Marshal Imazapic Herbicide using a calibrated measuring device. Fill the tank with the remaining water adding the surfactant near the end of the filling process. Add an antifoaming product if it is needed. Maintain agitation while spraying.

Mixing with Other Herbicide(s): Marshal Imazapic Herbicide can be tank-mixed with other herbicide(s) if the use is not prohibited by the label of the other herbicide(s). Read each label carefully and follow all label instructions regarding use rates, application methods, timing, restrictions, precautions, and weeds controlled. The most restrictive label is the one that must be followed. Do not tank-mix Marshal Imazapic Herbicide with any product that does not permit tank-mixing. Do not exceed label rates. Fill the spray tank at least one-half full of clean water. With the pump and agitator running, add the specified amount of Marshal Imazapic Herbicide using a calibrated measuring device. Add the tank-mix herbicide, fill the tank with the remaining water adding the nonionic surfactant, organosilicate adjuvant or crop oil concentrate near the end of the filling process. Add an antifoaming product if it is needed. Maintain agitation while spraying. When mixing Marshal Imazapic Herbicide with other tank-mix partners, always follow the following mixing sequence: add wettable powders, dispersible granules, or other dry formulations first, emulsifiable concentrates next, then Marshal Imazapic Herbicide next, and spray adjuvants next.

SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS

To achieve control of weeds when Marshal Imazapic Herbicide is applied postemergence, a spray adjuvant must be added. Adjuvants vary in their contents and by selecting the correct adjuvant phytotoxicity to desirable vegetation can be reduced or eliminated. Use low phytotoxic adjuvants. Adjuvants containing high amounts of alcohols, paraffin based petroleum oils and other compounds which can increase phytotoxicity must be avoided.

Methylated Seed Oils or Vegetable Oil Concentrate: The preferred spray adjuvant for use with Marshal Imazapic Herbicide is a methylated vegetable-based seed oil concentrate containing 5 to 20% surfactant and the remainder methylated seed oil (MSO). For MSO, use a rate of 1 1/2 to 2 pints per acre. Best results are achieved when MSOs are applied with Marshal Imazapic Herbicide in total spray volumes of 30 gallons per acre or less. The advantage of using the MSO decreases as the spray volume increases to higher volumes. If spray volumes above 30 gallons per acre are used, mix the MSO with Marshal Imazapic Herbicide at a rate of 1% of the total spray volume. As an alternative, a non-ionic surfactant, as described below could be used when Marshal Imazapic Herbicide is applied at spray volumes above 30 gallons per acre. MSOs have been shown to aid in the deposition and uptake of Marshal Imazapic Herbicide in hard-to-control perennials, in weeds with waxy leaf surfaces and in weeds under stressed conditions.

Do not use a MSO on newly emerged seedling prairiegrass or wildflowers as injury could occur.

Nonionic Surfactants (NIS): Use a NIS at 0.25% v/v (i.e. 1 quart/100 gallons) or higher in the spray solution. For best results, use an NIS containing 60% surfactant in the formulated product and having a hydrophilic to lipophilic balance ratio (HLB) between 12 and 17. Do not use alcohols, fatty acids, oils, ethylene glycol, or diethylene glycol to meet these requirements.

In bermudagrass pastures and hay meadows best results will be achieved if a NIS is used with Marshal Imazapic Herbicide.

Silicone-Based Surfactants: Use caution if a silicone-based surfactant is used. Although a silicone-based surfactant may allow greater spreading on the leaf surface when compared to a conventional NIS, it may dry too quickly and limit the herbicide's uptake into the plant, or at higher spray volumes it may result in greater spray "run-off" from the plant. Review the specific rate instructions on the manufacturer's label.

Fertilizer/Surfactant Blends: Use of a nitrogen-based fertilizer in combination with the specified rate of a NIS or MSO has been shown to improve the uptake of Marshal Imazapic Herbicide in plants with waxy leaf surfaces. A rate of 2 to 3 pints per acre of fertilizers such as 28% N, 32% N, 10-34-0, or ammonium sulfate in combination with the specified rates of NIS or MSO will aid in the burndown control with Marshal Imazapic Herbicide. Injury to desired plant species and newly emerged seedling prairiegrass and wildflowers may also be increased with the use of a fertilizer in combination with Marshal Imazapic Herbicide. Weed control will likely be poor if Marshal Imazapic Herbicide is applied in combination with a fertilizer without a NIS or MSO. No additional spray adjuvant is required if the fertilizer is the spray carrier for Marshal Imazapic Herbicide.

TANK MIXES

For added control of late season annual grasses and certain broadleaf weeds in noncrop areas, tank-mix Marshal Imazapic Herbicide with Pendulum® herbicide. Marshal Imazapic Herbicide can be mixed with other herbicides for additional control in noncrop areas including Accord™, Roundup™ Pro, glyphosate, Arsenal® or Vegetation Manager® Imazapyr 2SL herbicide, Sahara® DG or Mohave™ 70 EG herbicide, diuron, Campaign™, Finale™, Garlon™ 3A or Vegetation Manager Triclopyr 3SL, MSMA, Vaniquist™, Oust™ (or SFM 75), Escort™ (or Metsulfuron Methyl DF), Tordon™ (or Picloram 22K), or other labeled products. To test for the compatibility of any other herbicides not listed with Marshal Imazapic Herbicide, use a jar test. Mixing Marshal Imazapic Herbicide with 2,4-D or other phenoxy-type herbicides could lead to reduced control of perennial grass weeds.

Do not tank mix Marshal Imazapic Herbicide with organophosphate insecticides or use in the same year when using Marshal Imazapic Herbicide on newly planted areas. Tank mix instructions for Marshal Imazapic Herbicide use on bermudagrass pastures is found in the **Directions for Use in Bermudagrass Pastures and Hay Meadows** part of this label. When tank-mixing, always consult manufacturer's labeling for rates and weeds controlled. Always follow the more restrictive label when using Marshal Imazapic Herbicide with a tank-mix partner.

FOR WEED CONTROL IN PASTURE AND RANGELAND

To control weeds in pasture and rangeland, apply a broadcast treatment of Marshal Imazapic Herbicide at 2 to 12 ounces per acre (0.03 - 0.19 lb ae). For spot treatments, use Marshal Imazapic Herbicide at 0.25% to 1% solution with 1.0% methylated seed oil. Specific use directions are found below.

Rangeland Use Instructions: Apply Marshal Imazapic Herbicide to rangeland for the control of undesirable (non-native, invasive, and noxious) plant species in order to (1) aid in the establishment of desirable rangeland plant species; (2) aid in establishment of desirable rangeland vegetation after a fire; (3) aid in the reduction of

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vegetation that would fuel a wildfire; (4) aid in the release of existing desirable rangeland vegetation from the competitive pressure of undesirable plant species; and (5) aid in habitat improvement for wildlife.

Protection of threatened and endangered plants is important when applying Marshal Imazapic Herbicide to rangeland. Therefore, federal agencies must follow NEPA regulations to ensure protection of threatened or endangered plants, state agencies must work with the Fish and Wildlife Service or the Service's designated state conservation agency to ensure protection of threatened or endangered plants, and other organizations or individuals must operate under Habitat Conservation Plan if threatened or endangered plants are known to be present on the land to be treated.

See the appropriate sections of this label for specific use directions for the vegetation management objective desired.

Do not apply Marshal Imazapic Herbicide to rangeland until specific weeds appear. A single application of Marshal Imazapic Herbicide can be used to control annual weeds such as cheatgrass, downy brome and medusahead rye as long as it is used in conjunction with available IPM practices. For rangeland applications to control cheatgrass, medusahead, annual mustards, etc., apply Marshal Imazapic Herbicide preemergence or early postemergence prior to planting. For best results for cheatgrass control, make a late summer or fall application of Marshal Imazapic Herbicide before cheatgrass emerges and prior to planting desirable species. Marshal Imazapic Herbicide can be used in this same manner as a site preparation before planting sagebrush seedlings. If making an application of Marshal Imazapic Herbicide in the spring when planting a tolerant grass species, use a rate of 2 to 4 ounces per acre (0.03 - 0.06 lb ae). Rates above 4 ounces (0.06 lb ae) per acre may result in thinning or loss of stand, especially in seedling sideoats, blue grama or buffalograss. Perennial weeds like leafy spurge, Dalmatian toadflax, and Russian knapweed can be controlled in most cases with a single broadcast application of Marshal Imazapic Herbicide. Spot treatments with Marshal Imazapic Herbicide may be necessary to control any weeds not controlled by the broadcast application. Long term weed control in rangeland is best achieved when Marshal Imazapic Herbicide is used in conjunction with land management practices that promote growth and sustainability of desired plant species.

DIRECTIONS FOR USE IN BERMUDAGRASS PASTURES AND HAY MEADOWS

For control of winter and summer annual and perennial grasses in bermudagrass pastures and hay meadows, use a postemergence application of Marshal Imazapic Herbicide at 4 to 12 ounces (0.06 - 0.19 lb ae) per acre. Specific rate and timing instructions are provided below. Use of Marshal Imazapic Herbicide is acceptable on common and coastal varieties of bermudagrass including, but not restricted to Tifton 44, 78, and 85, Alicia and Russell. It is possible that bermudagrass growth may be suppressed for 30 to 45 days depending on growth conditions after application. Be aware that Jiggs bermudagrass is more sensitive to Marshal Imazapic Herbicide than other bermudagrass types. If these growth responses are not acceptable, do not use Marshal Imazapic Herbicide on bermudagrass.

Complete spray coverage is necessary to achieve the desired level of weed control. Be sure to use a sprayer that is calibrated to deliver the specified spray volume and pressure at the spray boom height to ensure complete coverage. Decreased weed control could result if boomless or flood type nozzles are used.

Use Restrictions: (1) Do not apply to drought stressed bermudagrass; (2) Do not apply during transitions from dormancy to full green-up; (3) Do not apply to newly aerated fields for 30 days after aerations; (4) Do not use for the establishment of sprigged or seeded bermudagrass; (5) Do not use on World Feeder varieties of bermudagrass.

Spring Applications and Bermudagrass Tolerance: Bermudagrass growth can be suppressed if Marshal Imazapic Herbicide is applied before the bermudagrass has reached 100% green-up. If Marshal Imazapic Herbicide is applied when the bermudagrass is in the transition from winter dormancy to 100% green-up, green-up and growth will be delayed. Carefully inspect the new bermudagrass growth in the field to be sure all stolons have begun to grow. Application of Marshal Imazapic Herbicide to a field that appears green, but where some to many stolons have not begun to grow, will still cause significant reductions in bermudagrass growth and development. It is important to delay application of Marshal Imazapic Herbicide until 100% green-up has been achieved.

General Rate Instructions: Make a postemergent application of Marshal Imazapic Herbicide at 4 - 6 ounces (0.06 - 0.09 lb ae) per acre to control most annual and some perennial weeds in bermudagrass pastures and hay meadows. Use the lower rate against target weeds that are small and the higher rate against target weeds that are older, larger or have been cut multiple times. Specific rate instructions are given in the table below.

Postemergence Control of Summer Annual and Perennial Grass Weeds: When bermudagrass has reached complete green-up and target weeds are at the growth stage desired, apply Marshal Imazapic Herbicide according to the rates and growth stages in the table below. Bermudagrass green-up and subsequent growth will be delayed if Marshal Imazapic Herbicide is applied too early during the transition between dormancy and full green-up. Some bermudagrass yellowing and stolon internode shortening can occur with specified rates of Marshal Imazapic Herbicide. Bermudagrass recovery will be shortened if Marshal Imazapic Herbicide is applied with a nitrogen fertilizer (32-0-0 or 28-0-0) used as the spray carrier.

After complete bermudagrass green-up, apply Marshal Imazapic Herbicide postemergence at 4 to 6 ounces (0.06 - 0.09 lb ae) per acre for control of summer annual grasses (2 to 4 leaf stage). Use higher rates of 6 to 8 ounces (0.09 - 0.13 lb ae) per acre when target weeds are at or above the boot stage. Always use a surfactant with Marshal Imazapic Herbicide except when the spray carrier is liquid fertilizer. Some preemergence control of some annual grasses will be obtained when Marshal Imazapic Herbicide is applied postemergence to target weeds.

Summer perennial grasses are controlled when Marshal Imazapic Herbicide is applied after complete bermudagrass green-up at the rate of 6 to 12 ounces (0.09 - 0.19 lb ae) per acre. If higher rates are necessary to control target weeds, make a fall application of Marshal Imazapic Herbicide before a killing frost occurs. If a fall application is planned and the bermudagrass is cut for hay, be sure the target weeds have adequate regrowth before making an application of Marshal Imazapic Herbicide. Always use a surfactant with Marshal Imazapic Herbicide except when the spray carrier is liquid fertilizer.

Marshal Imazapic Herbicide Rates for Postemergent Summer Annual Grass Control¹

Common Name	Species	Weed Height (inches) ²	Rate per Acre (fluid ounces)
Large crabgrass	<i>Digitaria sanguinalis</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Southern crabgrass	<i>Digitaria ciliaris</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Smooth crabgrass	<i>Digitaria ischaemum</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Giant foxtail	<i>Setaria faberi</i>		6 (0.09 lb ae)
Green foxtail	<i>Setaria viridis</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Yellow foxtail	<i>Setaria glauca</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Texas panicum	<i>Panicum texanum</i>		6 (0.09 lb ae)
Fall panicum	<i>Panicum dichotomiflorum</i>		6 (0.09 lb ae)
Broadleaf signalgrass	<i>Brachiaria platyphylla</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Annual jewgrass	<i>Microstegium vimineum</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Barnyardgrass	<i>Echinochloa crus-galli</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)
Sandbur	<i>Cenchrus spp.</i>	≤4	4 (0.06 lb ae)
		>4	6 (0.09 lb ae)

¹Be sure bermudagrass has completely greened up as an application of Marshal Imazapic Herbicide could delay green-up and subsequent growth if application is made too early before full green-up. If delayed green-up will be an issue, do not apply Marshal Imazapic Herbicide.

²Use the higher rate when the summer annual grasses are older, larger or have been subjected to multiple cuttings.

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Marshal Imazapic Herbicide Rates for Postemergent Summer Perennial Grass Control¹

Common Name	Species	Weed Height (inches) ²	Rate per Acre (fluid ounces)
Johnsongrass	<i>Sorghum halepense</i>	18 - 24 >24	8 (0.13 lb ae) 12 (0.19 lb ae)
Vaseygrass	<i>Paspalum urvillei</i>	4 - 8	6 - 8 (0.09 - 0.13 lb ae)
Nutsedge	<i>Cyperus</i> spp.	≤4 >4	4 (0.06 lb ae) 6 (0.09 lb ae)
Bahiagrass	<i>Paspalum notatum</i>	4 - 8	6 - 8 (0.09 - 0.13 lb ae)
Dallisgrass ³	<i>Paspalum dilatatum</i>	4 - 8	8 - 12 (0.13 - 0.19 lb ae)
Smutgrass ³	<i>Sporobolus indicus</i>	4 - 8	8 - 12 (0.13 - 0.19 lb ae)

¹Be sure bermudagrass has completely greened up as an application of Marshal Imazapic Herbicide could delay green-up and subsequent growth if application is made too early before full green-up. If delayed green-up will be an issue, do not apply Marshal Imazapic Herbicide.

²Use the higher rate when the summer annual grasses are older, larger or have been subjected to multiple cuttings.

³Suppression

Postemergent Control of Winter Annual and Perennial Grass Weeds: When bermudagrass is dormant, make a postemergent application of Marshal Imazapic Herbicide at a rate of 6 to 12 ounces (0.09 - 0.19 lb ae) per acre. Be sure there is no green tissue at the root crown or on stolons because an application of Marshal Imazapic Herbicide to green tissue may delay bermudagrass green-up and subsequent growth. In the deep south where mild winters often occur, bermudagrass may not go completely dormant. Consequently, avoid making an application of Marshal Imazapic Herbicide if delayed green-up will be an issue. Control of larger winter annual and cool season perennial grasses will be improved if Marshal Imazapic Herbicide is applied with 16 to 24 ounces per acre of Roundup Ultra™ or glyphosate equivalent. Always use a surfactant with Marshal Imazapic Herbicide except when the spray carrier is liquid fertilizer.

Marshal Imazapic Herbicide Rates for Postemergent Winter Annual and Cool Season Perennial Grass Control

Common Name	Species	Weed Height (inches)	Rate per Acre (fluid ounces)
Annual Ryegrass ¹	<i>Lolium multiflorum</i>	≤6 >6	6 (0.09 lb ae) 10 (0.16 lb ae)
Tall Fescue	<i>Festuca arundinacea</i>		12 (0.19 lb ae)
Wild Oats	<i>Avena fatua</i>	≤6 >6	6 (0.09 lb ae) 10 (0.16 lb ae)
Little Barley	<i>Hordeum pusillum</i>	≤6 >6	4 (0.06 lb ae) 6 (0.09 lb ae)

¹Because AHAS and ALS resistant annual ryegrass occurs throughout the southeast, tank mix 16 to 24 ounces per acre of Roundup Ultra or glyphosate equivalent with Marshal Imazapic Herbicide when making applications to control annual ryegrass.

Spray Adjuvants: To promote the growth and recovery of bermudagrass, add 10 to 20 gallons per acre of liquid fertilizer (32-0-0 or 28-0-0) as the spray carrier with Marshal Imazapic Herbicide. Do not add additional spray adjuvant when liquid fertilizer is used as the spray carrier. For additional spray adjuvant directions, go to the **Spray Adjuvants for Postemergence Applications** part of this label. Do not use crop oil concentrates (COC) as a spray adjuvant with Marshal Imazapic Herbicide.

Tank Mixtures: Marshal Imazapic Herbicide can be tank mixed with a number of broadleaf herbicides for broadleaf weed control. Marshal Imazapic Herbicide can be tank mixed with Weedmaster®, Grazon™, Vegetation Manager Triclopyr 4E (or Remedy™), Redeem™, Metsulfuron Methyl DF (or Ally™), 2,4-D, and Roundup Ultra or glyphosate equivalent. Applications with tank mixes of 2,4-D that exceed one pound active ingredient per acre and applications with tank mixes of triclopyr amine, such as Vegetation Manager Triclopyr 3SL, that exceed 1 1/2 pounds active ingredient per acre can reduce efficacy on target grass weed species.

FOR USE ON FEDERAL CONSERVATION RESERVE PROGRAM (CRP) LAND

Use Marshal Imazapic Herbicide at rates up to 12 ounces (0.19 lb ae) per acre per year for control of weeds on Federal Conservation Reserve Program (CRP) land. Specific instructions for each intended use can be found elsewhere in this label.

Minimum plant-back intervals vary with the rates of Marshal Imazapic Herbicide used. See the minimum plant-back intervals provided below.

Rotational Crop Restrictions: The following rotational crops can be planted after applying Marshal Imazapic Herbicide. Planting rotational crops earlier than the specified interval may result in crop injury.

Marshal Imazapic Herbicide Use Rate (ounce/A)	Minimum Plant Back Interval (Months After Marshal Imazapic Herbicide Application)				
≤4 (0.06 lb ae)	12	12	18	26	40
5 - 8 (0.08 - 0.13 lb ae)	12	14	22	30	44
9 - 12 (0.14 - 0.19 lb ae)	12	18	24	36	48
Rotational Crops	Bahiagrass CLEARFIELD® corn hybrids Peanuts Rye Wheat	Snapbeans Southern peas Soybeans Tobacco	Barley Cotton ¹ Grain sorghum Oats	Field corn ² All crops not otherwise listed or included for use on this label ²	Canola ² Potatoes ² Red table beets ² Sugar beets ²

¹For Arizona, New Mexico, Oklahoma, and Texas only: In these states, cotton can be planted 18 to 24 months after Marshal Imazapic Herbicide application unless drought conditions develop in the year of application. If less than 15 inches of rainfall or irrigation are received from the time of Marshal Imazapic Herbicide application and November 1 of the same year, do not rotate to cotton at 18 to 24 months after application. If such drought conditions develop, wait to plant cotton until 26, 30, and 40 months after Marshal Imazapic Herbicide application at the rates provided in the above table.

²A field bioassay of the intended rotational crop must be completed for these selected crops and for all other crops not otherwise listed or included on this label after the minimum plant back interval has elapsed. The field bioassay consists of planting a test strip across the previously treated field and grown to maturity. Be sure the test strip is planted in low areas as well as high spots and on different soil types and soil pH levels across the field. The intended rotational crop may be planted the following year if there is no crop injury in the test strip.

It is impossible to eliminate all risks associated with the use of Marshal Imazapic Herbicide; therefore, plant-back crop injury is always possible even when label rates and use directions are followed. If crop injury is a concern after using Marshal Imazapic Herbicide, then a field bioassay with the desired crop prior to planting.

FOR FOLIAR AND SEEDHEAD SUPPRESSION OF BAHIAGRASS,
COOL SEASON GRASSES, AND SUPPRESSION OF SOME ANNUAL WEEDS

Bahiagrass: In unimproved areas, apply Marshal Imazapic Herbicide at 2 to 6 ounces (0.03 - 0.09 lb ae) per acre to suppress growth and seedhead development in bahiagrass. For best results, apply Marshal Imazapic Herbicide after green-up. Use the lower rate of 2 ounces (0.03 lb ae) per acre in North and South Carolina because higher rates may result in turf thinning. Temporary turf discoloration may occur depending on the rate of Marshal Imazapic Herbicide used as well as other factors such as surfactant type and environmental conditions. Severe injury may occur if Marshal Imazapic Herbicide is applied to turf under any type of stress. If applied before mowing, remember that new growth will be suppressed so adjust the mower height to leave adequate existing foliage. If applied after mowing, adjust the mower to leave existing foliage or wait for re-growth before making the application. Do not use a methylated seed oil adjuvant with Marshal Imazapic Herbicide.

MARSHAL IMAZAPIC HERBICIDE	PHYTOTOXICITY	LENGTH OF SUPPRESSION
2 ounce (0.03 lb ae)	None to low	Partial to season long
3 to 6 ounce (0.05 - 0.09 lb ae)	Low to moderate	Season long

Use 8 ounces (0.13 lb ae) of Marshal Imazapic Herbicide for control of winter annual weeds. Make the application when weeds are actively growing but while the bahiagrass is still dormant. A subsequent application of Marshal Imazapic Herbicide at 3 to 4 ounces (0.05 - 0.06 lb ae) per acre can be made in the spring after bahiagrass green-up for the suppression of seedheads and foliage.

Cool Season Grasses: KY31 Tall Fescue and "Wildtype Common" Kentucky Bluegrass: For foliar and seedhead suppression of these cool season grasses, apply Marshal Imazapic Herbicide at 2 to 4 ounces (0.03 lb - 0.06 lb ae) per acre. Do not use a methylated seed oil adjuvant with Marshal Imazapic Herbicide on these grasses. Use of an adjuvant with the lower rate will enhance performance; however use of a surfactant with the higher rate (4 ounces) could cause excessive injury or mortality of tall fescue. Application of Marshal Imazapic Herbicide to turf types of tall fescue and Kentucky bluegrass could result in severe injury or stand loss.

Wheatgrass: Marshal Imazapic Herbicide can be applied for foliar and seedhead suppression of crested wheatgrass and intermediate wheatgrass. Use 6 to 10 ounces (0.09 - 0.16 lb ae) per acre for crested wheatgrass and 6 to 12 ounces (0.09 - 0.19 lb ae) per acre for intermediate wheatgrass. Although other wheatgrass species may be suppressed, it is best to determine effectiveness by first applying Marshal Imazapic Herbicide to a limited area. Use of 2,4-D or products containing 2,4-D in a tank-mix with Marshal Imazapic Herbicide may decrease the desired effectiveness. The potential of turf injury may be reduced when Marshal Imazapic Herbicide is tank mixed with Garlon (Triclopyr 3SL or Triclopyr 4EC), Tordon (Picloram 22K), Transline™, and Vanquish. Severe injury may occur if Marshal Imazapic Herbicide is applied to turf under stress.

FOR THE CONTROL OF UNDESIRABLE WEEDS IN BERMUDAGRASS
NOT BEING GROWN FOR FORAGE OR HAY

Marshal Imazapic Herbicide will control summer and winter annual weeds as well as some perennial weeds in bermudagrass turf found along roadsides, utility rights-of-way, railroad crossings, at airports, in non-irrigation ditches. Tolerance to Marshal Imazapic Herbicide varies with different bermudagrass types. Therefore, some foliar, stolon and seedhead suppression may occur depending on turf type, application timing and herbicide rate. When applying Marshal Imazapic Herbicide to bermudagrass turf it is important to (1) make application only after full bermudagrass green-up otherwise a delay in green-up may occur; (2) add a surfactant; (3) do not apply to bermudagrass under stress; (4) allow time for bermudagrass foliage re-growth after mowing before making an application because some internode suppression (from simultaneously mow/spray operations) may prevent bermudagrass from quickly recovering from mowing.

Winter Annual Weed Control: Make application prior to winter weed germination or while winter weeds are actively growing. Use Marshal Imazapic Herbicide at 4 to 12 ounces (0.06 - 0.19 lb ae) per acre. A delay in bermudagrass green-up can occur if Marshal Imazapic Herbicide is applied too early in the spring.

Summer Annual Weeds: For best results, make application preemergence or early postemergence before weeds have reached a height of 6 inches. Use Marshal Imazapic Herbicide at 4 to 12 ounces (0.06 - 0.19 lb ae) per acre. Control of larger weeds may be possible depending on growing conditions, species susceptibility, adjuvant selection and tank-mix partner.

Perennial Weeds: Use Marshal Imazapic Herbicide at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre postemergence after weeds are large enough for herbicide uptake. For control of a specific weed species, see the **Special Weed Control** part of this label. Increased control of perennial weeds can be achieved by tank mixing Marshal Imazapic Herbicide with Accord or Roundup Pro.

Bahiagrass Control: Make a postemergence application of Marshal Imazapic Herbicide at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre. For control of a specific weed species, see the **Special Weed Control** part of the label. Increased control of perennial weeds can be achieved by tank mixing Marshal Imazapic Herbicide with Accord or Roundup Pro at 12 to 16 ounces per acre.

MARSHAL IMAZAPIC HERBICIDE RATES AND TIMINGS FOR SPECIFIC BERMUDAGRASS TYPES WITH REGARD TO
WEED CONTROL AND TURF TOLERANCE.

Common Bermudagrass: Common bermudagrass is very tolerant to Marshal Imazapic Herbicide. The weed control spectrum can be improved with tank-mixes of Marshal Imazapic Herbicide with Roundup Pro, Accord, or glyphosate; however, these tank-mixes may also increase turf phytotoxicity by causing stolen internode shortening and seedhead suppression for the first 8 weeks after application.

Established Coastal Bermudagrass: The use of 2 to 12 ounces (0.03 - 0.19 lb ae) per acre of Marshal Imazapic Herbicide on coastal bermudagrass will control labeled weeds and provide foliar and seedhead suppression. Do not use Marshal Imazapic Herbicide on World Feeder varieties of bermudagrass. Activity of Marshal Imazapic Herbicide increases as the rate increases. Beware that applying a tank-mix combination of Marshal Imazapic Herbicide and Roundup Pro, Accord, or glyphosate on coastal bermudagrass may result in death or excessive injury.

Turf Type Bermudagrass: Tolerance to Marshal Imazapic Herbicide varies in turf type bermudagrass varieties. At rates of 2 to 6 ounces (0.03 - 0.09 lb ae) per acre, Marshal Imazapic Herbicide will provide some annual weed control and foliar and seedhead suppression. Application of Marshal Imazapic Herbicide at rates above 6 ounces per acre could result in excessive injury or death.

FOR THE CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED CENTIPEDE GRASS

To control annual broadleaf and grass weeds in unimproved centipede grass, apply Marshal Imazapic Herbicide at 4 to 8 ounces (0.06 - 0.13 lb ae) per acre with a surfactant. Make the application after the centipede grass has reached full green-up and do not apply to grass that is under stress. Be sure to allow time for centipede grass foliage re-growth after mowing before making an application because some internode suppression (from simultaneously mow/spray operations) may prevent the centipede grass from quickly recovering from mowing.

FOR CONTROL OF UNDESIRABLE WEEDS IN SMOOTH BROMEGRASS,
WILDTYPE COMMON KENTUCKY BLUEGRASS AND WHEATGRASSES

Smooth Bromegrass and "Wildtype" Common Kentucky Bluegrass: For control of labeled grass and broadleaf weeds (see **Weeds Controlled** and **Special Weed Control** sections of this label below) as well as growth suppression, apply Marshal Imazapic Herbicide at 4 to 8 ounces (0.06 - 0.13 lb ae) per acre in the spring after these grasses have reached 100% green-up. A delay in green-up may occur if application is made before full green-up. Higher rates of 8 to 12 ounces (0.13 - 0.19 lb ae) per acre can be applied in the spring; however, excessive growth suppression can result. A fall application of Marshal Imazapic Herbicide at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre can be made to control perennial weeds (see **Special Weed Control** section of this label below). Treatment of smooth bromegrass with Marshal Imazapic Herbicide may result in foliar height and seedhead suppression.

Wheatgrass: For control of labeled grass and broadleaf weeds apply Marshal Imazapic Herbicide at 4 to 12 ounces (0.06 - 0.19 lb ae) per acre. Foliar height and seedheads may be suppressed when wheatgrass is treated with Marshal Imazapic Herbicide.

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**FOR CONTROL OF UNDESIRABLE WEEDS IN FORAGE LEGUMES
INCLUDING PERENNIAL PEANUTS AND CROWN VETCH**

Newly Sprigged And Established Perennial Peanut: Marshal Imazapic Herbicide can be applied at 4 ounces (0.06 lb ae) per acre to perennial peanut pastures to weeds that are 4 inches or less in height. Add a non-ionic surfactant at 0.25% v/v to the spray mix.

Newly Seeded Crown Vetch: To aid in stand establishment and reduce weed competition, apply Marshal Imazapic Herbicide at 4 ounces (0.06 lb ae) per acre to newly seeded beds.

Established Crown Vetch in Noncropland Areas: For control of labeled grass and broadleaf weeds (see the **Weeds Controlled** and **Special Weed Control** sections of this label below for specific rates), apply Marshal Imazapic Herbicide at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre to established crown vetch beds. Depending on time of application, some internode shortening and minor tip chlorosis may occur after application of Marshal Imazapic Herbicide.

To avoid potential injury, apply Marshal Imazapic Herbicide during winter dormancy or in the early spring. If applied after May, Marshal Imazapic Herbicide may cause increased injury or defoliation of crown vetch. Injury will be increased if a surfactant such as a crop oil concentrate or d-Limonene based product is used. If applied during the fall when crown vetch is actively growing, Marshal Imazapic Herbicide may cause severe injury or stand loss.

FOR USE IN REVEGETATION WITH PRAIRIEGRASSES AND OTHER FORAGE GRASSES

Marshal Imazapic Herbicide controls many annual and perennial grass and broadleaf weeds when applied at 2 to 12 ounces (0.03 - 0.19 lb ae) per acre in newly established and existing stands of prairiegrasses (see below for details and tolerant species) grown in such areas as pasture, rangeland (see **Instructions For Rangeland Use** section of this label), Federal Conservation Reserve Program (CRP) land and noncropland areas such as roadsides, industrial sites, prairie restoration sites, drainage ditch bank and other similar locations. Note that some local ecotypes or varieties of prairiegrasses may be suppressed by Marshal Imazapic Herbicide. Poor stands may also result from other factors such as poor soil, cool temperatures, poor seedling vigor, excessive moisture, dry weather after emergence and others. Herbicide residue, poor soils and other stress factors can also lead to poor seedling vigor, increased injury and possible mortality. Environmental Science U.S., LLC cannot be held responsible for such unforeseen factors. If tolerance is not known, be sure to try Marshal Imazapic Herbicide on a small area first. Marshal Imazapic Herbicide reduces weed competition and allows grass seedlings to become established. Perennial noxious weeds in established grass stands may also be controlled with Marshal Imazapic Herbicide if the application is made postemergence as a foliar treatment.

Important Considerations:

1. Always add an adjuvant with Marshal Imazapic Herbicide.
2. On established grass stands, use a methylated seed oil.
3. Use a nonionic surfactant on newly emerged seedling grasses.
4. Use of a liquid fertilizer as a carrier will reduce grass tolerance and must not be used on newly emerged seedling grasses.

Stand Establishment: Since newly emerged grasses can be sensitive to Marshal Imazapic Herbicide and/or the adjuvant used, best results in establishing mixed grass stands are attained when the application is made at planting before grass seedlings emerge. If grasses have started to emerge, the application of Marshal Imazapic Herbicide must be delayed until the grasses have reached the five-leaf stage. Use only a nonionic surfactant or silicone-based surfactant with Marshal Imazapic Herbicide on seedling grasses. Do not use a methylated seed oil at this timing as some injury could result. Annual weeds are controlled by Marshal Imazapic Herbicide applied either preemergence or early postemergence (see the **Weeds Controlled** section of this label for maximum height of weeds for control). Rates and timing are discussed in the section below. Some stand thinning may result from a postemergence application of Marshal Imazapic Herbicide because seedling grasses have varying tolerance to spray adjuvants. If the seedling grasses have reached the five-leaf stage, they are generally more tolerant to different spray adjuvants. Herbicide-carry-over can be a problem if grasses are planted into a field that was row cropped the previous year (see **Directions for Use** section of this label).

Rates and Control: Marshal Imazapic Herbicide will provide control and/or suppression of many annual grass and broadleaf weeds. Apply 2 to 6 ounces (0.03 - 0.09 lb ae) per acre for annual weed control in fields cropped the previous year and/or fields where grass/forb mixtures are planted. In dry climates of the northernmost U.S. and for late season plantings into clean seedbeds, use lower rates. Use Marshal Imazapic Herbicide as low as 2 ounces (0.03 lb ae) per acre when soil pH is greater than 7, there is a low CEC, or in a coarse texture soil with low clay or organic matter content. Use higher rates when there is high organic matter, high rainfall, heavy weed infestation and heavy plant residue and a long growing season (southern portions of Illinois, Indiana, Missouri, and Ohio, etc.). When controlling giant ragweed, or providing control/suppression of perennial weeds, use Marshal Imazapic Herbicide at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre. These high rates may, however, result in stunting or stand thinning. The length and amount of suppression will be related to soil type, environmental conditions, weed pressure and chemical residue. Additional details are provided below for specific grass timings and tolerances.

Established Stands: Application of Marshal Imazapic Herbicide as an early postemergence treatment to annual grasses and broadleaf weeds will provide the best results. See the **Special Weed Control** section of this label for instructions for control of perennial weeds. Some foliar and/or seedhead height suppression may result in established grass stands when the high rates of Marshal Imazapic Herbicide are used. This is especially likely when there is few weeds, little rainfall, light soils and short growing seasons. Reserve lower rates for use on light weed infestations or when desirable wildflowers and legumes, including crown vetch and perennial peanuts, are mixed in the grass stands (the **Wildflower Establishment and Maintenance** section of this label provides rate tolerance information). Higher rates will broaden and lengthen the spectrum of weeds controlled.

Buffalograss: In newly sprigged buffalograss, apply Marshal Imazapic Herbicide at 2 to 4 ounces (0.03 - 0.06 lb ae) per acre for control or suppression of labeled weeds and to aid in stand establishment. Make the application immediately after planting to new growth or seedlings. Severe injury or death may occur when Marshal Imazapic Herbicide is applied to new growth and small seedlings. It is best to wait to apply Marshal Imazapic Herbicide to newly emerged buffalograss until the grass has at least five true leaves. It is also important to use only a nonionic or silicone-based surfactant and not to use a methylated seed oil. In established stands, apply Marshal Imazapic Herbicide at 2 to 8 ounces (0.03 - 0.13 lb ae) per acre. The higher rates may result in some turf discoloration and stunting. An application of Marshal Imazapic Herbicide to dormant buffalograss will control winter annual weeds. Note that some buffalograss types may show different tolerance to Marshal Imazapic Herbicide. Turf type buffalograss, for instance, may show a different tolerance to Marshal Imazapic Herbicide than the wild type buffalograss. Some turf types may tolerate low rates of Marshal Imazapic Herbicide applied at seeding. The seed dealer will provide details.

Sideoats and Blue Grama: Do not apply Marshal Imazapic Herbicide to monoculture stands of sideoats and blue grama if stand thinning or stand loss can not be tolerated. Once new seedlings of sideoats and blue grama have emerged and reached the five-leaf stage, an application of Marshal Imazapic Herbicide at 2 to 4 ounces (0.03 - 0.06 lb ae) per acre plus an adjuvant will aid in stand establishment. Stand thinning may occur if Marshal Imazapic Herbicide is applied at 4 ounces (0.06 lb ae) per acre with methylated seed oil as the adjuvant. Satisfactory weed control in early summer plantings of sideoats and blue grama may result when lower rates of Marshal Imazapic Herbicide are used, especially in the states of Wisconsin, Michigan, Minnesota, South Dakota, North Dakota, Kansas, Oklahoma, Texas, and Nebraska, and other states where growing degree days are short. Although sideoats and blue grama have shown tolerance to Marshal Imazapic Herbicide at 2 to 4 ounces (0.03 - 0.06 lb ae) per acre when applied preemergence at planting, some stand thinning may occur. In established stands of sideoats and blue grama, apply Marshal Imazapic Herbicide at 4 to 10 ounces (0.06 - 0.16 lb ae) per acre. Marshal Imazapic Herbicide can be applied up to 12 ounces (0.19 lb ae) per acre; however, depending on soil type, variety, environmental conditions, surfactant choice, etc., this may result in foliar and/or seedhead suppression, or in the injury of the sideoats or blue grama.

Switchgrass (*Panicum virgatum*): Do not use Marshal Imazapic Herbicide for the establishment of pure switchgrass stands as severe injury or death can result. It can, however, be applied at 2 to 4 ounces (0.03 - 0.06 lb ae) per acre if switchgrass is planted in a mixed stand with tolerant species. Even then, some stand thinning or loss of stand may result. If reclaiming a mature switchgrass stand from certain perennial weeds like tall fescue, leafy spurge and Johnsongrass, etc., use Marshal Imazapic Herbicide at rates of 10 to 12 ounces (0.16 - 0.19 lb ae) per acre. Beware, however, that severe stunting and injury will occur. Do not apply Marshal Imazapic Herbicide to switchgrass if severe injury cannot be tolerated.

Eastern Gamagrass: Apply Marshal Imazapic Herbicide at 2 to 6 ounces (0.03 - 0.09 lb ae) per acre at planting prior to eastern gamagrass emergence only if some stand thinning or loss can be tolerated. Stand thinning and stunting will most likely result. Stand mortality could result if there are adverse conditions, poor soils or added stress to the eastern gamagrass. On established eastern gamagrass, apply Marshal Imazapic Herbicide at 2 to 8 ounces (0.03 - 0.13 lb ae) per acre while the eastern gamagrass is dormant. Injury in the form of stunting will occur as the rate of Marshal Imazapic Herbicide is increased. If applied during or after green-up, Marshal Imazapic Herbicide may result in foliar and/or seedhead suppression and possible mortality of weak plants.

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Big Bluestem, Little Bluestem and Indiangrass: To control labeled weeds in these grasses at planting, or any time thereafter (including emerged seedlings and dormant or actively growing perennial stands), Marshal Imazapic Herbicide can be applied at the rate of 2 to 12 ounces (0.03 - 0.19 lb ae) per acre. See **Weeds Controlled** section of this label for the desired rate. Use lower rates in Wisconsin, Michigan, Minnesota, South Dakota, North Dakota, Kansas, Oklahoma, Texas, and Nebraska. Use higher rates in areas of where there is more rainfall and a longer growing season.

Tall Fescue Control: Tall fescue can be controlled in established stands of, or in seed bed preparations for, big bluestem, little bluestem and indiangrass when Marshal Imazapic Herbicide is applied at 12 ounces (0.19 lb ae) per acre in combination with methylated seed oil at 2 pints per acre. Control may be aided with the addition of nitrogen fertilizer (see **Spray Adjuvants for Postemergence Applications** section of this label). Best results will be obtained if the tall fescue is actively growing. Application to tall fescue after it has reached the boot stage or summer dormancy will result in poor control. Tank-mix combinations with Marshal Imazapic Herbicide could result in improved control of existing tall fescue as well as new germinating seedlings. Best results will result from a fall application of Marshal Imazapic Herbicide at 6 to 12 ounces (0.09 - 0.19 lb ae) per acre plus 24 to 64 ounces per acre of Accord or Roundup Pro.

To control older, more mature fescue stands in the spring, use Marshal Imazapic Herbicide at the higher end of the 6 to 12 ounces (0.09 - 0.19 lb ae) per acre rate range plus a tank-mix with Accord or Roundup Pro at 32 to 64 ounces per acre. If planting forbs, use the lower end of the 6 to 12 ounces (0.09 - 0.19 lb ae) per acre rate range of Marshal Imazapic Herbicide plus a tank-mix with a glyphosate product. If Marshal Imazapic Herbicide is used at 8 ounces (0.13 lb ae) per acre with a glyphosate product in the fall, apply only 4 ounces (0.06 lb ae) per acre of Marshal Imazapic Herbicide in the spring at planting for annual weed and seedling fescue control. Where permitted, burning the fescue stand the following spring prior to green-up can help provide a better seedbed for planting and aid in control of seedling tall fescue. Several summer mowings of the fescue will weaken the root system and make the fescue more susceptible to herbicides. At least 10 inches of fescue re-growth is necessary following the last mowing before applying either the Marshal Imazapic Herbicide or glyphosate products. Both require adequate foliage present for uptake and maximum control.

TOLERANT GRASS SPECIES¹

Prairiegrass		Marshal Imazapic Herbicide Rate (ounce/acre) ²	
Common Name	Species	New Seeding	Established
Big Bluestem	<i>Andropogon gerardii</i>	2 - 12 (0.03 - 0.19 lb ae)	2 - 12 (0.03 - 0.19 lb ae)
Little Bluestem	<i>Schizachyrium scoparium</i>	2 - 12 (0.03 - 0.19 lb ae)	2 - 12 (0.03 - 0.19 lb ae)
Indiangrass	<i>Sorghastrum nutans</i>	2 - 12 (0.03 - 0.19 lb ae)	2 - 12 (0.03 - 0.19 lb ae)
Bushy Bluestem	<i>Andropogon glomeratus</i>	--*	2 - 12 (0.03 - 0.19 lb ae)
King Ranch Bluestem	<i>Bothriochloa ischaemum</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Silver Beard Bluestem	<i>Bothriochloa saccharoides</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Broomsedge	<i>Andropogon virginicus</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Fingergrass, Rhodes grass	<i>Chloris</i> spp.	--	2 - 12 (0.03 - 0.19 lb ae)
Needlegrass	<i>Stipa</i> spp.	--	2 - 12 (0.03 - 0.19 lb ae)
Needleandthread	<i>Stipa comata</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Kearny (Plains) Threeawn	<i>Aristida longespica</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Prairie Threeawn	<i>Aristida oligantha</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Prairie Sandreed	<i>Calamovilfa longifolia</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Smooth Bromegrass	<i>Bromus inermis</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Kentucky Bluegrass	<i>Poa pratensis</i>	--	2 - 12 ⁴ (0.03 - 0.19 lb ae)
Sandberg's Bluegrass	<i>Poa sandbergii</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Wheatgrasses	<i>Agropyron</i> spp.	--	2 - 12 (0.03 - 0.19 lb ae)
Bottlebrush Squirreltail	<i>Sitanian hystrix</i>	--	2 - 12 (0.03 - 0.19 lb ae)
Russian Wild Ryegrass	<i>Elymus junceus</i>	2 - 6 ² (0.03 - 0.19 lb ae)	2 - 12 (0.03 - 0.19 lb ae)
Sideoats Grama	<i>Bouteloua curtipendula</i>	2 - 8 ³ (0.03 - 0.13 lb ae)	2 - 8 (0.03 - 0.13 lb ae)
Blue Grama	<i>Bouteloua gracilis</i>	2 - 8 ³ (0.03 - 0.13 lb ae)	2 - 8 (0.03 - 0.13 lb ae)
Buffalograss	<i>Buchloe dactyloides</i>	2 - 4 (0.03 - 0.06 lb ae)	2 - 8 (0.03 - 0.13 lb ae)
Eastern Gamagrass	<i>Tripsacum dactyloides</i>	2 - 6 ³ (0.03 - 0.09 lb ae)	2 - 8 (0.03 - 0.13 lb ae)

¹See individual grass sections for application timing.

²High rates may result in stunting and growth suppression.

³Marshal Imazapic Herbicide preemergence applications to newly seeded sideoats, blue grama and Eastern gamagrass may result in thinning or loss of stand.

⁴Some bluegrass varieties are sensitive to Marshal Imazapic Herbicide. Drought can delay recovery and may result in overgrazing of treated area.

*Tolerance unknown.

Tolerance of Established Grasses to 8 to 12 ounces (0.13 - 0.19 lb ae) of Marshal Imazapic Herbicide applied in the Fall

Grass Species ¹	Tolerant	Suppressed ²	Not Tolerant	Tolerance Unknown
Bermudagrass	X			
Bluegrass Kentucky		X		
Bluegrass, Sandberg's	X			
Bluestem, big	X			
Bluestem, bushy	X			
Bluestem, King Ranch	X			
Bluestem, little	X			
Bluestem, silver beard	X			

(continued)

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Tolerance of Established Grasses to 8 to 12 ounces (0.13 - 0.19 lb ae) of Marshal Imazapic Herbicide applied in the Fall (continued)

Grass Species ¹	Tolerant	Suppressed ²	Not Tolerant	Tolerance Unknown
Bromegrass, meadow		X	X	
Bromegrass, smooth		X		
Broomsedge	X			
Buffalograss	X	X		
Cheatgrass			X	
Creeping foxtail, Garrison				X
Downey brome			X	
Fescue, Idaho	X			
Fescue, Tall			X	
Gamagrass, eastern		X		
Grama, blue	X	X		
Grama, sideoats	X	X		
Indiangrass	X			
Medusahead			X	
Needleandthread	X			
Needlegrass, green	X			
Orchardgrass		X		
Prairie cordgrass		X		
Prairie dropseed				X
Prairie sandreed	X			
Prairie threeawn	X			
Quackgrass		X		
Redtop		X	X	
Reed canarygrass		X	X	
Rhodes grass/Fingergrass	X			
Ryegrass, annual or Italian			X	
Ryegrass, perennial		X	X	
Squirreltail, bottlebrush	X			
Switchgrass		X	X	
Timothy			X	
Wheatgrass, bluebunch	X	X		
Wheatgrass, crested	X	X		
Wheatgrass, intermediate	X	X		
Wheatgrass, pubescent	X	X		
Wheatgrass, Siberian	X			
Wheatgrass, slender	X	X		
Wheatgrass, streambank	X	X		
Wheatgrass, western	X	X		
Wild ryegrass, Basin	X			
Wild ryegrass, Canada		X		
Wild ryegrass, Russian	X			
Wild ryegrass, Virginia		X		

¹Species with an X in more than one column means tolerance will vary depending on variety, use rate, and environmental conditions.

²Suppression may be expressed as reduction in number of seedheads, seedhead height suppression or foliage height reduction, however, full recovery of the grass can be expected.

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WILDFLOWER ESTABLISHMENT AND MAINTENANCE

Tolerance among wildflowers to Marshal Imazapic Herbicide varies considerably because there are so many different genotypes, ecotypes and varieties and susceptibilities depending on soil types and environmental conditions. Do not use Marshal Imazapic Herbicide unless some stand thinning or mortality of wildflowers can be tolerated. The least amount of injury to tolerant species from a preemergence application of Marshal Imazapic Herbicide will result from the low rate of 2 ounces (0.03 lb ae) per acre. Because the use of Marshal Imazapic Herbicide applied postemergence can result in injury or death of some wildflower genotypes, use only as a last resort when the wildflower stand is threatened by weed competition. Certain spray adjuvants used with Marshal Imazapic Herbicide can also increase injury and stand loss in wildflowers. Most legumes listed in the tolerance table are tolerant to Marshal Imazapic Herbicide at 4 ounces (0.06 lb ae) per acre, however some stand thinning can occur. The specifications given in the tables below are for mixed grass/wildflower stands. Use on a monoculture stand could result in poor control and plant injury. Test a small area of the monoculture stand for injury before applying Marshal Imazapic Herbicide to a larger area of a monoculture stand.

For prairiegrass/wildflower mixtures: If wildflower injury (stand thinning, height suppression, etc.) can be tolerated, apply Marshal Imazapic Herbicide at the rate specified to achieve the weed control desired. Do not exceed the tolerance rate given in the table below. Preemergence applications of Marshal Imazapic Herbicide can reduce or eliminate wildflower injury. To minimize injury to tolerant species, apply Marshal Imazapic Herbicide at 2 to 4 ounces (0.03 - 0.06 lb ae) per acre. In low rainfall areas and areas where conditions are cool and dry, use the 2 ounces (0.03 lb ae) per acre rate of Marshal Imazapic Herbicide. If a postemergence application of Marshal Imazapic Herbicide is to be made to established prairiegrass/wildflower mixtures, use the lowest rates allowed to achieve the weed control desired (see **Weeds Controlled** section of this label). Postemergence application can result in stand thinning or death due to the great variation in seed sources, varieties, and genotypes of wildflowers. Test a small area to determine tolerance before making a full application to a large area. The rates listed below are for those species in which acceptable tolerance has been confirmed on the varieties/genotypes being treated.

Increased wildflower injury can result from an application of Marshal Imazapic Herbicide in conjunction with an organophosphate insecticide.

Seedling Wildflower and Legume Tolerance to Marshal Imazapic Herbicide (4 ounce (0.06 lb ae) per acre)' in Mixed Grass/Forb Stands

Common Name	Genus Species	PRE	POST
Alfalfa	<i>Medicago sativa</i>	No	Yes
Aster, New England	<i>Aster novae angliae</i>	No	Yes
Aster, Prairie	<i>Aster tanacetifolia</i>	No	Yes
Baby Blue Eyes	<i>Nemophila menziesii</i>	No	Yes
Beggar ticks	<i>Bidens frondosa</i>	No	Yes
Bird's eyes	<i>Gila tricolor</i>	No	Yes
Bishop's Flower	<i>Ammi majus</i>	No	Yes
Blackeyed Susan	<i>Rudbeckia hirta</i>	Yes	Yes
Blanketflower	<i>Gaillardia aristata</i>	No	Yes
Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	Yes	Yes
Catchfly	<i>Silene armeria</i>	No	Yes
Chicory	<i>Cichorium intybus</i>	Yes	Yes
Clover, Crimson	<i>Trifolium incarnatum</i>	Yes	Yes
Clover, White	<i>Trifolium repens</i>	No	Yes
Coneflower, Purple	<i>Echinacea purpurea</i>	Yes	Yes
Coneflower, Upright Prairie	<i>Ratibida columnifera</i>	Yes	Yes
Coreopsis, Dwarf Red Plains	<i>Coreopsis tinctoria</i> var. Gay Feather	Yes	Yes
Coreopsis, Lance Leaved	<i>Coreopsis lanceolata</i>	Yes	Yes
Coreopsis, Plains	<i>Coreopsis tinctoria</i>	Yes	Yes
Cornflower	<i>Centaurea cyanus</i>	No	Yes
Cosmos, Garden	<i>Cosmos bipinnatus</i>	Yes	Yes
Cosmos, Yellow	<i>Cosmos sulphureus</i>	Yes	Yes
Daisy, Ox-eye	<i>Chrysanthemum leucanthemum</i>	Yes	Yes
Daisy, Shasta	<i>Chrysanthemum maximum</i>	Yes	Yes
Five Spot	<i>Nemophila maculata</i>	No	Yes
Flax, Blue	<i>Linum perenne</i>	No	Yes
Hat, Mexican	<i>Ratibida columnifera</i>	Yes	Yes
Indian Blanket	<i>Gaillardia pulchella</i>	No	Yes
Indigo, Blue False	<i>Baptisia australis</i>	Yes	No
Johnny Jump-ups	<i>Viola cornuta</i>	Yes	Yes
Lemon Mint	<i>Monarda citriodora</i>	No	Yes
Lespedeza, Bicolor	<i>Lespedeza</i>	Yes	Yes
Lespedeza, Korean	<i>Lespedeza stipulacea</i>	No	Yes
Lespedeza, Sericea	<i>Lespedeza cuneata</i>	No	Yes
Lupine, Perennial	<i>Lupinus perennis</i>	Yes	Yes
Partridgepea	<i>Cassia fasciculata</i>	Yes	Yes
Pea, Calico	<i>Pisum vigna sinensis</i>	Yes	Yes

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(continued)

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Seedling Wildflower and Legume Tolerance to Marshal Imazapic Herbicide (4 ounce (0.06 lb ae) per acre)¹ in Mixed Grass/Forb Stands (continued)

Common Name	Genus Species	PRE	POST
Pea, Flat	<i>Lathyrus sylvestris</i>	Yes	Yes
Pea, Perennial	<i>Lathyrus latifolius</i>	Yes	Yes
Phlox, Drummond	<i>Phlox drummondii</i>	Yes	No
Poppy, California	<i>Eschscholzia californica</i>	Yes	No
Poppy, Corn	<i>Papaver rhoeas</i>	Yes	Yes
Poppy, Red Corn	<i>Papaver</i> spp.	Yes	Yes
Prairieclover, Purple	<i>Dalea purpurea</i>	Yes	Yes
Prairieclover, White	<i>Dalea candidum</i>	Yes	Yes
Tick-trefoil, showy	<i>Desmodium canadense</i>	No	Yes
Trefoil, Birdsfoot	<i>Lotus corniculatus</i>	No	Yes
Vetch, Crown	<i>Coronilla varia</i>	Yes	--
Vetch, Hairy	<i>Vicia villosa</i>	Yes	--
Yarrow, Gold	<i>Achillea filipendulina</i>	No	Yes

¹For legumes, at least three true leaves should be present a postemergence application.

Established Wildflower and Legume Tolerance to Marshal Imazapic Herbicide (maximum rate)¹, ounce per acre) in Mixed Grass/Forb Stands

Common Name	Genus Species	PRE	POST ²
Flax, Blue	<i>Linum perenne</i>	0	6 (0.09 lb ae)
Indian Blanket	<i>Gaillardia pulchella</i>	0	6 (0.09 lb ae)
Blanketflower	<i>Gaillardia aristata</i>	0	8 (0.13 lb ae)
Chickory	<i>Cichorium intybus</i>	4 (0.06 lb ae)	6 (0.09 lb ae)
Daisy, Shasta	<i>Chrysanthemum maximum</i>	4 (0.06 lb ae)	8 (0.13 lb ae)
Prairieclover, Purple	<i>Dalea purpurea</i>	4 (0.06 lb ae)	12 (0.19 lb ae)
Coneflower, Upright Prairie	<i>Ratibida columnifera</i>	6 (0.09 lb ae)	6 (0.09 lb ae)
Hat, Mexican	<i>Ratibida columnifera</i>	6 (0.09 lb ae)	6 (0.09 lb ae)
Poorjoe	<i>Diodia teres</i>	8 (0.13 lb ae)	--
Lupine, Perennial ⁴	<i>Lupinus perennis</i>	8 (0.13 lb ae)	12 (0.19 lb ae)
Coneflower, Purple	<i>Echinacea purpurea</i>	8 (0.13 lb ae)	8 (0.13 lb ae)
Daisy, Ox-eye ³	<i>Chrysanthemum leucanthemum</i>	8 (0.13 lb ae)	8 (0.13 lb ae)
Leadplant	<i>Amorpha canescens</i>	8 (0.13 lb ae)	8 (0.13 lb ae)
Lespedeza, Bicolor	<i>Lespedeza</i>	8 (0.13 lb ae)	8 (0.13 lb ae)
Milkweed, Common	<i>Asclepias syriaca</i>	8 (0.13 lb ae)	--
Pea, Prairie Scurf	<i>Psoralea esculenta</i>	8 (0.13 lb ae)	8 (0.13 lb ae)
Yarrow, Gold ³	<i>Achillea filipendulina</i>	8 (0.13 lb ae)	8 (0.13 lb ae)
Blackeyed Susan	<i>Rudbeckia hirta</i>	8 (0.13 lb ae)	10 (0.16 lb ae)
Johnny Jump-ups	<i>Viola cornuta</i>	8 (0.13 lb ae)	12 (0.19 lb ae)
Sweetclover	<i>Melilotus</i> sp.	12 (0.19 lb ae)	8 (0.13 lb ae)
Alfalfa	<i>Medicago sativa</i>	12 (0.19 lb ae)	12 (0.19 lb ae)
Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	12 (0.19 lb ae)	12 (0.19 lb ae)
Lespedeza, Sericea	<i>Lespedeza cuneata</i>	12 (0.19 lb ae)	12 (0.19 lb ae)
Partridgepea	<i>Cassia fasciculate</i>	12 (0.19 lb ae)	12 (0.19 lb ae)
Sensitive vine	<i>Mimosa strigillosa</i>	12 (0.19 lb ae)	12 (0.19 lb ae)
Vetch, Crown	<i>Coronilla varia</i>	12 (0.19 lb ae)	12 (0.19 lb ae)
Violet, Wild	<i>Viola</i> spp.	12 (0.19 lb ae)	12 (0.19 lb ae)

¹Height suppression or stand reduction may occur at maximum use rate. For legumes, some yellowing and stunting can occur at higher use rates.

²Make early post postemergence application on the flowers to reduce injury and increase flower set.

³Will not flower.

⁴Most native rangeland lupines are tolerant to Marshal Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre postemergence.

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Wildflower Establishment with Marshal Imazapic Herbicide 4 ounce (0.06 lb ae) per acre + PENDULUM Herbicide 2 pounds active ingredient per acre¹

Common name	Genus Species	PRE ²	POST ³
Blackeyed Susan	<i>Rudbeckia hirta</i>	Yes	Yes
Blanketflower	<i>Gaillardia aristata</i>	No	Yes
Bundleflower, Illinois	<i>Desmanthus illinoensis</i>	>50% thinning	Yes
Clover, Crimson	<i>Trifolium incarnatum</i>	>50% thinning	Yes
Coneflower, Clasping	<i>Dracopis amplexicaulis</i>	Yes	Yes
Coneflower, Upright Prairie	<i>Ratibida columnifera</i>	No	OK
Coneflower, Purple	<i>Echinacea purpurea</i>	Yes	Yes
Coreopsis, Dwarf Red Plains	<i>Coreopsis tinctoria</i> var. Gay Feather	OK stunting	OK stunting
Coreopsis, Plains	<i>Coreopsis tinctoria</i>	OK stunting	Yes
Coreopsis, Lance Leaved	<i>Coreopsis lanceolata</i>	25% thinning	Yes
Cornflower	<i>Centaurea cyanus</i>	No	OK 20% thinning
Cosmos, Garden	<i>Cosmos bipinnatus</i>	OK 10% thinning	OK stunting
Cosmos, Yellow	<i>Cosmos sulphureus</i>	Yes	Yes
Daisy, Ox-eye	<i>Chrysanthemum leucanthemum</i>	25% thinning	Yes
Daisy, Shasta	<i>Chrysanthemum maximum</i>	Marginal-OK-20% thinning	Yes
Lupine, Perennial	<i>Lupinus perennis</i>	Yes	≤50% thinning
Partridgepea	<i>Cassia fasciculata</i>	25% thinning	Yes
Poppy, California	<i>Eschscholzia californica</i>	Yes	25% injury, stunting, thinning
Yarrow, Gold	<i>Achillea filipendulina</i>	OK thinning	OK

¹2 lbs active ingredient per acre = 2.4 quarts of Pendulum herbicide 3.3 EC or 3.3 lbs of Pendulum herbicide WDG.

²Preemergence at planting.

³Postemergence to seedlings.

Yes = no injury.

No = results in no wildflower germination or unacceptable injury to seedling flowers.

OK = can be used in thinning and/or stunting can be tolerated or if establishment is threatened by weed competition.

Beware that the response of wildflowers to Marshal Imazapic Herbicide could vary greatly because of the many species and varieties that exist. Test small areas to determine tolerance and whether potential injury is acceptable before treating larger areas.

If Marshal Imazapic Herbicide is to be used on a wildflower species that is not listed in the table below, test a small area with no more than 12 ounces (0.19 lb ae) per acre per year to determine the injury that may result. Evaluate the wildflowers 1 to 2 months later for possible injury. The user assumes all responsibility for any damage or other liability.

WILDLIFE HABITAT MANAGEMENT

Marshal Imazapic Herbicide can be used to control exotic and other undesirable vegetation for purposes of wildlife habitat management and enhancement within terrestrial noncrop sites including riparian and tree areas. Applications can be made to control undesirable vegetation prior to the establishment of desirable species and to release desirable species that may be present in the soil, but suppressed by competitive vegetation. See specific sections of this label for weed control information.

SPECIAL WEED CONTROL

Always add an adjuvant to Marshal Imazapic Herbicide (see **Spray Adjuvants For Postemergence Applications** section of this label). Best control of perennial weeds is achieved when Marshal Imazapic Herbicide is mixed with a methylated seed oil. This is especially true when weeds have waxy leaves or with perennials and weeds under stress conditions. Use a methylated seed oil for best results against the weeds listed below because the use of a nonionic or silicone-based surfactant may result in less than acceptable control.

Johnsongrass and Itchgrass: When Johnsongrass and itchgrass have reached the whorl stage and 18 to 24 inches in height, apply Marshal Imazapic Herbicide at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre. If treating dense stands, or after these grasses have reached the culm elongation stage, control with Marshal Imazapic Herbicide may be improved with the addition of Accord or Roundup Pro at the rate of 8 to 16 ounces per acre. Use the higher herbicide rates as grass density increases. Sometimes, control of Johnsongrass and itchgrass at stages taller than described above are possible.

Dallisgrass, Bahiagrass, Vaseygrass, Paspalum spp., Smutgrass: Make a postemergence application of Marshal Imazapic Herbicide at 10 to 12 ounces (0.16 - 0.19 lb ae) per acre after grass has reached full green-up for control of dallisgrass, bahiagrass and smutgrass. Activity against dallisgrass and smutgrass can range from suppression to control depending upon the growth stage and growing conditions at the time of application. To control vaseygrass, make a postemergence application of Marshal Imazapic Herbicide at the rate of 4 to 6 ounces per acre after the grass has reached 100% green-up and is from 3 to 8 inches in height. Efficacy will be improved with the addition of Accord or Roundup Pro at the rate of 12 to 16 ounces per acre. Use higher herbicide rates as weed growth and density increases. A preemergence application of Marshal Imazapic Herbicide plus Pendulum herbicide will provide increased control of these grasses germinating from seed.

Leafy Spurge: Maximum control of leafy spurge can be obtained when Marshal Imazapic Herbicide is applied in late summer or fall at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre in combination with a methylated seed oil at two pints per acre. The timing is generally August through October, but it can vary due to geography and altitude. Yearly applications will improve the residual control of leafy spurge. In some areas, cool season grasses may be injured by applications of Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre in spring or fall, or 4 ounces (0.06 lb ae) applied in the fall followed by 8 ounces (0.13 lb ae) per acre in the spring. Nitrogen fertilizer (see **Spray Adjuvants For Postemergence Applications** section of this label) at two pints per acre can increase the control of leafy spurge; however, it may also cause injury to grasses and forbs. Use of Marshal™ Imazapic Herbicide with a nonionic or silicone-based surfactant will not provide control of leafy spurge. The target timing for fall applications of Marshal™ Imazapic Herbicide for control of leafy spurge in North and South Dakota is late August through September. Further south in Nebraska and Iowa the target timing is mid-September through mid-October. Make this application before a killing frost when there is good soil moisture present and the leafy spurge has not lost its milky sap flow. Check for milky sap flow by breaking the leafy spurge main stem and if milky sap flows from the break then Marshal™ Imazapic Herbicide can still be applied.

Tall Fescue Control: Apply Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre plus methylated seed oil at 2 pints per acre to control tall fescue. Control will be aided by the addition of Accord, glyphosate, or Roundup Pro and/or Nitrogen fertilizer (see **Spray Adjuvants For Postemergence Applications** section of this label). Only apply Marshal™ Imazapic Herbicide when tall fescue is actively growing because application after tall fescue had reached summer dormancy will result in poor control.

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Best control of existing tall fescue and germinating seedlings is obtained when Marshal™ Imazapic Herbicide is applied in the fall at 8 to 12 ounces (0.13 - 0.19 lb ae) per acre plus Accord or Roundup Pro at 24 to 64 ounces per acre. To control mature fescue stands in the spring, use Marshal™ Imazapic Herbicide at the higher end of the 6 to 12 ounces per acre rate range plus a tank-mix with Accord or Roundup Pro at 32 to 64 ounces per acre. If planting forbs, use the lower end of the 6 to 12 ounces (0.09 - 0.19 lb ae) per acre rate range of Marshal™ Imazapic Herbicide plus a tank-mix with a glyphosate product. If Marshal™ Imazapic Herbicide is used at 8 ounces (0.13 lb ae) per acre with a glyphosate product in the fall, apply only 4 ounces (0.06 lb ae) per acre of Marshal™ Imazapic Herbicide in the spring at planting for annual weed and seedling fescue control. Where permitted, burning the fescue stand the following spring prior to green-up can help provide a better seedbed for planting and aid in control of seedling tall fescue. Several summer mowings of the fescue will weaken the root system and make the fescue more susceptible to herbicides in the fall. At least 10 inches of fescue re-growth is necessary following the last mowing before applying either the Marshal™ Imazapic Herbicide or glyphosate products. Both require adequate foliage present for uptake and maximum control.

Russian Knapweed: To control Russian knapweed, make a fall application of Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre plus 1 quart per acre of methylated seed oil during Russian knapweed senescence. Reduced control will result if the application is made before the initiation of senescence. Although control improves as senescence progresses, Russian knapweed control can still be obtained with Marshal™ Imazapic Herbicide if the application is made after full senescence.

Dalmatian Toadflax: To control Dalmatian Toadflax, make a fall application of Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre plus 1 quart per acre of methylated seed oil when the top quarter of the plant is necrotic, usually after a hard front (late October through November). Reduced control will result if the application is made before this timing. Good control can be achieved as long as some green stem and/or leaf tissue is remaining. Adding ammonium sulfate at 2 to 3 pints per acre may improve control.

Resistant Biotypes: Herbicides that have the ALS/AHAS enzyme inhibiting mode of action such as Marshal™ Imazapic Herbicide, Oust and others may not control some weeds listed on this label if resistant biotypes are present. If ALS/AHAS resistant biotypes occur in the area to be sprayed, tank-mix Marshal™ Imazapic Herbicide, or make sequential applications, with a registered herbicide with a different mode of action.

RESIDUAL BAREGROUND WEED CONTROL

For total vegetation control in sensitive areas and around desirable vegetation, use Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre in a tank-mix combination with labeled rates of Pendulum herbicide, Roundup Pro, Escort (or Vegetation Manager Metsulfuron Methyl DF), Karmex™, 2,4-D, diuron, Vegetation Manager Prodiamine 65 WDG (or Endurance™) or other labeled products to provide total vegetation control. Use 2 pints per acre of methylated seed oil as an adjuvant for maximum control.

To provide total weed control in bareground areas, apply Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre in a tank-mix with Vegetation Manager Imazapyr 2SL (or Arsenal herbicide), Mohave 70 EG (or Sahara DG herbicide), Bromacil 40/40 (or Krovar™), SFM 75 (or Oust), Picloram K (or Tordon), Vanquish, or other labeled products to provide total bareground weed control. Use 2 pints per acre of methylated seed oil as an adjuvant for maximum control.

Spot treatments: For weed control in bareground or total vegetation, Marshal™ Imazapic Herbicide can be applied to small areas. In each gallon of water, mix Marshal™ Imazapic Herbicide at 0.3 to 5.4 ounces (0.005 - 0.08 lb ae) with 0.25 to 5% v/v methylated seed oil adjuvant.

USE UNDER PAVED SURFACES

Establish the final grade to the soil and then apply Marshal™ Imazapic Herbicide in sufficient water to obtain uniform wetting of the soil surface and shoulder area. Do not move the soil after the application. Using clean water and constant agitation, mix Marshal™ Imazapic Herbicide at the rate of 12 ounces (0.19 lb ae) per acre. If the soil is not moist before application, weed control can be improved through incorporation of Marshal™ Imazapic Herbicide. Mechanical incorporation to a depth of two inches with a rototiller or disc is one method. Use of rainfall and/or irrigation (one inch/Acre) is another good method to incorporate Marshal™ Imazapic Herbicide. Do not allow treated soil to wash or move from the treated area.

TOLERANCE OF TREES AND BRUSH TO MARSHAL™ IMAZAPIC HERBICIDE

When Marshal™ Imazapic Herbicide is applied in and around desirable tree and brush species, follow these general instructions:

1. Marshal™ Imazapic Herbicide may not be used on nursery, orchard, ornamental plantings, new plantings, seedling trees or fiber farms unless such use is provided in supplemental labeling from Environmental Science U.S., LLC.
2. Apply Marshal™ Imazapic Herbicide to a limited area to determine tolerance in the area.
3. Apply Marshal™ Imazapic Herbicide at rates up to 12 ounces (0.19 lb ae) per acre to control weeds in roadsides, prairies, and areas used for wildlife cover, erosion control and windbreaks and in and around established trees or pasture or rangeland (see **Instructions for Rangeland Use** section of this label).
4. Severe injury or death may result if Marshal™ Imazapic Herbicide is applied to tree and brush species that are under stress due to drought, insects or other factors that might make the plant more susceptible to injury.
5. Tip chlorosis and minor necrosis may be seen on some species.
6. Use application methods that decrease foliar contact as injury in the form of defoliation and terminal death may occur.
7. A list of tolerant tree and brush species to Marshal™ Imazapic Herbicide when it is applied under the canopy and/or to the foliage are presented below.

If making a fall application of Marshal™ Imazapic Herbicide, delay the application until after leaves have begun to senesce or drop to avoid potential foliar injury to tree and brush species. Fall applications can be made to conifer species as they are generally tolerant to Marshal™ Imazapic Herbicide. Be sure to apply Marshal™ Imazapic Herbicide in and around tree and brush species at the specified timing for the target weeds.

Brush and Tree Species Tolerant to Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre¹

Common Name	Species	Tolerance by Application Method ²	
		Directed Below Foliage	To Foliage
Apple	<i>Malus sylvestris</i>	Yes	NR
Ash, Blue	<i>Fraxinus quadrangulata</i>	Yes	NR
Ash, Green	<i>Fraxinus pennsylvanica</i>	No	No
Azalea	<i>Rhododendron</i> spp.	No	No
Basswood	<i>Tilia heterophylla</i>	No	No
Boxelder	<i>Acer negundo</i>	Yes	Injury ⁵
Buckeye, Ohio	<i>Aesculus glabra</i>	Yes	NR
Cedar-juniper, Western	<i>Thuja plicata</i>	Yes	Yes
Cherry, Black ³	<i>Prunus serotina</i>	No	No
Cherry, Choke	<i>Prunus virginiana</i>	No	No
Cherry, Sweet ³	<i>Prunus avium</i>	No	NR
Cottonwood	<i>Populus deltoides</i>	Yes	Injury ⁵
Cottonwood, Narrow Leaf	<i>Populus</i> spp.	Yes	Injury ⁵

(continued)

Brush and Tree Species Tolerant to Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre¹ (continued)

Common Name	Species	Tolerance by Application Method²	
		Directed Below Foliage	To Foliage
Currant species	Ribes spp.	Injury⁵	No
Dogwood, Flowering	Cornus spp.	Yes	Yes
Dogwood, Grey	Cornus racemosa	Yes	Injury⁵
Dogwood, Red Twig	Cornus spp.	Yes	Yes
Douglas Fir	Pseudotsuga menziesii	Yes	Yes⁴
Elm, American	Ulmus Americana	Yes	Yes
Elm, Siberian	Ulmus pumila	Yes	No
Elm, Slippery	Ulmus rubra	Yes	Yes
Gooseberry	Ribes spp.	Injury⁵	Injury⁵
Hackberry	Celtis occidentalis	Yes	Yes
Hawthorn	Crataegus spp.	Yes	Injury⁵
Juniper, Chinese	Juniperus chinensis	Yes	Yes
Juniper, Western	Juniperus osteosperma	Yes	Yes
Lilac	Syringa spp.	No	No
Linden, American	Tilia americana	No	No
Locust, Black	Robinia pseudoacacia	Yes	Yes
Locust, Honey	Gleditsia triacanthos	Yes	Yes
Maple, Red	Acer rubrum	Yes	Yes
Maple, Sugar	Acer saccharum	Yes	Yes
Mulberry, Red	Morus rubra	Yes	NR
Mulberry, White	Morus alba	Yes	NR
Oak, Black	Quercus velutina	Yes	NR
Oak, Live	Quercus virginiana	Yes	Yes
Oak, Southern Red	Quercus falcata	Yes	NR
Oak, White	Quercus alba	Yes	NR
Olive, Russian	Elaeagnus angustifolia	Yes	No
Osage Orange	Maclura pomifera	Yes	NR
Peach (var. Elberta)³	Prunus persica	Yes	NR
Photinia, Red Tip	Photinia fraseri	Yes	Yes
Pine, Lodgepole	Pinus Contorta	Yes	Injury⁴
Pine, White⁴	Pinus strobes	Yes	Yes
Pittosporum, Japanese	Pittosporum tobira	Yes	Yes
Plum species	Prunus spp.	Yes	No
Poplar, Yellow (Tulip)	Liriodendron tulipifera	Yes	NR
Privet, Common	Ligustrum vulgare	Yes	Yes
Rabbitbrush species	Chrysothamnus spp.	Yes	Yes
Redbud	Cercis canadensis	Yes	Yes
Redcedar, Eastern	Juniperus virginiana	Yes	Yes
Rose, Multiflora	Rosa multiflora	Yes⁵	No
Sage, Big	Artemisia tridentata	Yes	Yes
Sage, Fringe	Artemisia frigida	Yes	Yes
Sage, Silver	Artemisia cana	Yes	Yes
Sagebrush, Big	Artemisia tridentata	Yes	Yes
Sagebrush, Fringed	Artemisia frigida	Yes	Yes
Saltcedar	Tamarix spp.	Yes	No
Serviceberry	Amelanchier alnifolia	Yes	NR
Snowberry, Western	Symphoricarpos occidentalis	Yes	Injury⁵

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Brush and Tree Species Tolerant to Marshal™ Imazapic Herbicide at 12 ounces (0.19 lb ae) per acre¹ (continued)

Common Name	Species	Tolerance by Application Method ²	
		Directed Below Foliage	To Foliage
Spruce species	<i>Picea</i> spp.	Yes ⁴	Yes ⁴
Sugarberry	<i>Celtis laevigata</i>	Yes	Yes
Sycamore	<i>Plantanus occidentalis</i>	Yes	No
Tree of Heaven	<i>Ailanthus altissima</i>	Yes	Yes
Walnut, American Black	<i>Juglans nigra</i>	Yes	No
Willow	<i>Salix</i> spp.	Yes	Injury ⁵

¹Not intended for nursery, orchard, ornamental plantings, new plantings, or seedling trees.

²Yes = Tolerant

No = Not tolerant, severe injury or death.

NR = Not recommended due to insufficient tolerance data.

³Not for use on ornamental or fruit bearing trees.

⁴Applications made just before or during candling may cause candle injury or death.

⁵Possible defoliation and/or death. Some species may exhibit tip chlorosis and minor necrosis. If spray contacts foliage, then defoliation and terminal death may occur. Injury can be reduced or eliminated if applied in fall after color change or leaf drop.

WEEDS CONTROLLED
(With 4 to 6 ounces (0.06 - 0.09 lb ae) per acre Marshal™ Imazapic Herbicide)

Common Name	Species	PRE ¹	POST ²	ANNUAL/ BIENNIAL/ PERENNIAL ³
BROADLEAVES				
Bedstraw, Catchweed	<i>Galium aparine</i>	C	4	WA
Beggarweed, Florida	<i>Desmodium tortuosum</i>	C	2	SA
Buffalobur	<i>Solanum rostratum</i>	--	C	SA
Buttercup, Bur	<i>Ranunculus testiculatus</i>	C	C	WA
Cocklebur, Common	<i>Xanthium strumarium</i>	S	6	SA
Lambsquarters, Common	<i>Chenopodium album</i>	C	2	SA
Halogeton	<i>Halogeton glomeratus</i>	C	C	SA
Morningglory, Entireleaf	<i>Ipomoea hederacea</i>	S	3	SA
Ivyleaf	<i>Ipomoea hederacea</i>	S	3	SA
Tall	<i>Ipomoea purpurea</i>	S	3	SA
Mustard, Wild	<i>Brassica kaber</i>	C	C	WA
Pigweed	<i>Amaranthus</i> spp.	C	6	SA
Queen Anne's Lace	<i>Daucus carota</i>	--	4	B
Radish, Wild	<i>Raphanus raphanistrum</i>	S	4	WA
Yellow Rocket	<i>Barbarea vulgaris</i>	C	4	WA
Sicklepod	<i>Senna obtusifolia</i>	C	4	SA
Sida, Prickly	<i>Sida spinosa</i>	C	2	SA
Smartweed, Ladysthumb	<i>Polygonum persicaria</i>	C	C	SA
Pennsylvania	<i>Polygonum pensylvanicum</i>	C	C	SA
Swamp	<i>Polygonum coccineum</i>	C	C	SA
Starbur, Bristly	<i>Acanthospermum hispidum</i>	C	2	SA
Velvetleaf	<i>Abutilon theophrasti</i>	C	6	SA
GRASS WEEDS				
Brome, Downy	<i>Bromus tectorum</i>	C	2	WA
Cheat	<i>Bromus secalinus</i>	C	2	WA
Crabgrass, Large (Hairy)	<i>Digitaria sanguinalis</i>	C	4	SA
Smooth	<i>Digitaria ischaemum</i>	C	4	SA

(continued)

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WEEDS CONTROLLED				
(With 4 to 6 ounces (0.06 - 0.09 lb ae) per acre Marshal™ Imazapic Herbicide) (continued)				
Common Name	Species	PRE¹	POST²	ANNUAL/ BIENNIAL/ PERENNIAL³
GRASS WEEDS (continued)				
Foxtail, Giant Green Yellow	<i>Setaria faberi</i>	C	6	SA
	<i>Setaria viridis</i>	C	4	SA
	<i>Setaria glauca</i>	C	4	SA
Goatgrass, Jointed	<i>Aegilops cylindrical</i>	C	C	WA
Goosegrass	<i>Eleusine indica</i>	S	2	SA
Johnsongrass (seedling)	<i>Sorghum halepense</i>	C	12	SA
Medusahead	<i>Taeniatherum caput-medusae</i>	C	2	WA
Panicum, Fall	<i>Panicum dichotomiflorum</i>	S	6	SA
Sandbur	<i>Cenchrus</i> spp.	S	C	A/P
Shattercane	<i>Sorghum bicolor</i>	C	12	SA
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>	C	C	SA
Stiltgrass, Japanese	<i>Microstegium vimineum</i>	C	4	A
Vaseygrass	<i>Paspalum urvillei</i>	--	8	P
SEDGES				
Nutsedge, Yellow Purple	<i>Cyperus esculentus</i>	S	4S	P
	<i>Cyperus rotundus</i>	S	4S	P
Sedge	<i>Juncus</i> spp.	S	4S	A/P
¹C=control, S=suppression in northern US only. ²Maximum plant height in inches at time of application. ³Growth habit: A=annual, SA=summer annual, WA=winter annual, B=biennial, P=perennial				

WEEDS CONTROLLED				
(With 8 to 12 ounces (0.13 - 0.19 lb ae) per acre Marshal™ Imazapic Herbicide)				
Common Name	Species	PRE¹	POST²	ANNUAL/ BIENNIAL/ PERENNIAL³
BROADLEAVES				
Anoda, Spurred	<i>Anoda cristata</i>	C	6	SA
Baby's Breath⁵	<i>Gypsophila paniculata</i>	--	C	P
Bedstraw, Catchweed	<i>Galium aparine</i>	C	C	WA
Bedstraw, Marsh	<i>Galium</i> spp.	C	C	WA
Beggarweed, Florida	<i>Desmodium tortuosum</i>	C	6	SA
Bindweed, Field	<i>Convolvulus arvensis</i>	--	C	P
Buffalobur	<i>Solanum rostratum</i>	--	C	SA
Burclover	<i>Medicago</i> spp.	--	4	SA
Chickweed, Common	<i>Stellaria media</i>	C	6	SA
Cocklebur, Common	<i>Xanthium strumarium</i>	C	6	SA
Cornsalad, Common	<i>Valerianella locusta</i>	--	C	WA
Crownbeard, Golden	<i>Verbesina encelioides</i>	C	2	SA
Dandelion	<i>Taraxacum officinale</i>	--	C	P
Dock, Curly	<i>Rumex crispus</i>	C	6	B
Fiddleneck	<i>Amsinckia</i> spp.	--	C	SA
Flax, Spurge	<i>Thymelaea passerine</i>	C	C	A
Fleabane, Annual	<i>Erigeron annuus</i>	--	C	A
Geranium, Carolina	<i>Geranium carolinianum</i>	--	C	WA/B
Geranium, Cranesbill	<i>Geranium maculatum</i>	C	C	WA/B

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WEEDS CONTROLLED
(With 8 to 12 ounces (0.13 - 0.19 lb ae) per acre Marshal™ Imazapic Herbicide) (continued)

Common Name	Species	PRE¹	POST²	ANNUAL/ BIENNIAL/ PERENNIAL³
BROADLEAVES (continued)				
Ground Cherry	<i>Physalis heterophylla</i>	--	C	P
Hemlock, Poison	<i>Conium maculatum</i>	C	6	B
Henbit	<i>Lamium amplexicaule</i>	C	3	WA/B
Hoary Cress	<i>Cardaria</i> spp.	--	C	P
Houndstongue, Bristly	<i>Cynoglossum officinale</i>	C	C	B
Indigo, Hairy	<i>Indigofera hirsute</i>	C	2	P
Jimsonweed	<i>Datura stramonium</i>	C	6	SA
Knapweed, Russian⁴	<i>Centaurea repens</i>	--	C*	P
Knotweed, Prostrate	<i>Polygonum aviculare</i>	C	C	SA
Kochia*	<i>Kochia scoparia</i>	C	3	SA
Lambsquarters, Common	<i>Chenopodium album</i>	C	3	SA
Morningglory, Cypressvine	<i>Ipomoea quamoclit</i>	C	6	SA
Entireleaf	<i>Ipomoea hederacea</i>	C	6	SA
Ivyleaf	<i>Ipomoea hederacea</i>	C	6	SA
Pitted	<i>Ipomoea lacunose</i>	C	6	SA
Smallflower	<i>Jacquemontia tamnifolia</i>	C	6	SA
Tall	<i>Ipomoea purpurea</i>	C	6	SA
Mustard, Wild	<i>Brassica kaber</i>	C	C	WA
Onion, Wild	<i>Allium canadense</i>	C	C	P
Pepperweed, Perennial	<i>Lepidium latifolium</i>	--	C	P
Pigweed⁴	<i>Amaranthus</i> spp.	C	6	SA
Plantain, Narrowleaf	<i>Plantago lanceolata</i>	C	C	B
Poinsettia, Wild	<i>Euphorbia heterophylla</i>	C	6	SA
Puncture Vine	<i>Tribulus terrestris</i>	--	C	SA
Purslane, Common	<i>Portulaca oleracea</i>	C	4	SA
Pusley, Florida	<i>Richardia scabra</i>	C	4	SA
Queen Anne's Lace	<i>Daucus carota</i>	C	C	B
Ragweed, Common	<i>Ambrosia artemisiifolia</i>	C	3	SA
Giant	<i>Ambrosia trifida</i>	S	6	SA
Western	<i>Ambrosia psilostachya</i>	--	C	A/P
Rocket, Yellow	<i>Barbarea vulgaris</i>	C	C	WA
Senna, Coffee	<i>Cassia occidentalis</i>	C	4	SA
Sicklepod	<i>Senna obtusifolia</i>	C	6	SA
Sida, Prickly	<i>Sida spinosa</i>	C	6	SA
Smartweed, Ladysthumb	<i>Polygonum persicaria</i>	C	C	SA
Pennsylvania	<i>Polygonum pensylvanicum</i>	C	C	SA
Swamp	<i>Polygonum coccineum</i>	C	C	SA
Spurge, Leafy	<i>Euphorbia esula</i>	--	Fall*	P
Spotted	<i>Euphorbia maculate</i>	C	4	SA
Toothed	<i>Euphorbia dentata</i>	C	4	SA
Starbur, Bristly	<i>Acanthospermum hispidum</i>	--	6	SA
Sunflower	<i>Helianthus annuus</i>	--	18	SA
Tansymustard	<i>Descurainia pinnata</i>	C	C	WA
Teasel, Common	<i>Dipsacus fullonum</i>	--	C	B

(continued)

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WEEDS CONTROLLED
(With 8 to 12 ounces (0.13 - 0.19 lb ae) per acre Marshal™ Imazapic Herbicide) (continued)

Common Name	Species	PRE¹	POST²	ANNUAL/ BIENNIAL/ PERENNIAL³
BROADLEAVES (continued)				
Thistle, Bull	<i>Cirsium vulgare</i>	S	C	WA/B
Musk	<i>Carduus nutans</i>	--	S	B
Platt	<i>Cirsium canescens</i>	S	C	P
Russian*	<i>Salsola iberica</i>	C	3	A
Toadflax, Dalmatian	<i>Linaria dalmatica</i>	--	C*	P
Velvetleaf	<i>Abutilon theophrasti</i>	C	C	A
Vervain, Blue	<i>Verbena hastata</i>	--	S	WA
Vervain, Prostrate	<i>Verbena bracteata</i>	--	C	P
Whitetop	<i>Cardaria</i> spp.	--	C	P
Willowherb	<i>Epilobium</i> spp.	--	C	P
Woodsorrel, Yellow	<i>Oxalis stricta</i>	C	C	P
GRASS				
Bahiagrass	<i>Paspalum notatum</i>	S	C*	P
Barley, Little	<i>Hordeum pusillum</i>	C	4	WA
Barley, Squirrel Tail	<i>Hordeum jubatum</i>	--	C	P
Barnyardgrass	<i>Echinochloa crus-galli</i>	C	6	SA
Cheat	<i>Bromus secalinus</i>	C	C	WA
Crabgrass	<i>Digitaria</i> spp.	C	6	SA
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	C	C	SA
Dallisgrass	<i>Paspalum dilatatum</i>	S	C*	P
Downy Brome	<i>Bromus tectorum</i>	C	--	WA
Dropseed, Tall	<i>Sporobolus cryptandrus</i>	S	C	A/P
Fescue, Tall	<i>Festuca arundinacea</i>	C	C*	P
Foxtail, Giant	<i>Setaria faberi</i>	C	C	SA
Green	<i>Setaria viridis</i>	C	C	SA
Knotroot	<i>Setaria geniculatus</i>	S	6	SA
Purple Robust	<i>Setaria viridis</i>	S	S	SA
Yellow	<i>Setaria glauca</i>	C	4	SA
Garlic, Wild	<i>Allium vineale</i>	C	C	P
Goosegrass	<i>Eleusine indica</i>	C	3S	SA
Itchgrass	<i>Rottboellia cochinchinensis</i>	--	C*	SA
Johnsongrass, Seedling	<i>Sorghum halepense</i>	C	C	SA
Rhizome	<i>Sorghum halepense</i>	--	C*	P
Medusahead	<i>Taeniatherum capitu-medusa</i>	C	C	WA
Panicum, Fall	<i>Panicum dichotomiflorum</i>	C	C	SA
Texas	<i>Panicum texanum</i>	C	C	SA
Ryegrass, Annual (Italian)	<i>Lolium multiflorum</i>	C	C	WA
Ryegrass, Perennial	<i>Lolium perenne</i>	--	C	P
Sandbur	<i>Cenchrus</i> spp.	S	C	A/P
Shattercane	<i>Sorghum bicolor</i>	C	C	SA
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>	C	C	SA
Smutgrass	<i>Sporobolus indicus</i>	--	C	P
Stiltgrass, Japanese	<i>Microstegium vimineum</i>	C	C	A
Stinkgrass, Annual	<i>Eragrostis cilianensis</i>	C	2	SA

(continued)

7.625"

6"

WEEDS CONTROLLED				
(With 8 to 12 ounces (0.13 - 0.19 lb ae) per acre Marshal™ Imazapic Herbicide) (continued)				
Common Name	Species	PRE ¹	POST ²	ANNUAL/ BIENNIAL/ PERENNIAL ³
GRASS (continued)				
Torpedograss	<i>Panicum repens</i>	--	C	P
Vaseygrass	<i>Paspalum urvillei</i>		C	P
Wild Oats	<i>Avena fatua</i>	--	C	WA
SEDGES/RUSHES				
Nutsedge, Yellow Purple	<i>Cyperus esculentus</i>	C	C	P
	<i>Cyperus rotundus</i>	C	C	P
Rush	<i>Juncus</i> spp.	S	4	A/P
¹ C=control, S=suppression in northern US only. ² Maximum plant height in inches at time of application. ³ Growth habit: A=annual, SA=summer annual, WA=winter annual, B=biennial, P=perennial ⁴ Some species are tolerant and resistant biotypes are possible. ⁵ For annual control. The addition of 1 - 2 pints of 2,4-D will aid in burndown. ⁶ For best control apply in the fall. *See Special Weed Control section of this label.				

7.625"

6"

STORAGE AND DISPOSAL

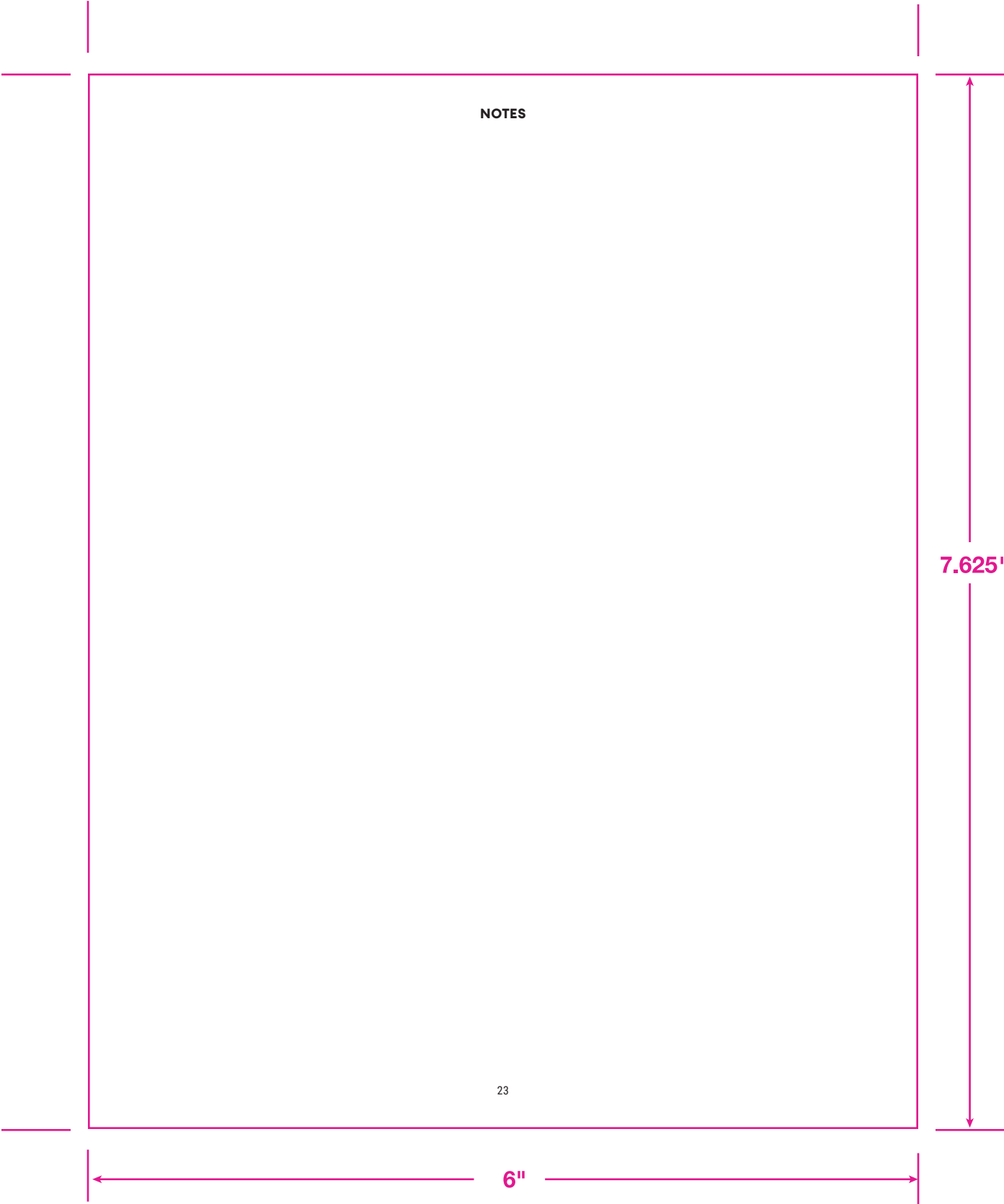
Do not contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: KEEP FROM FREEZING. Do not store below 20°F.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL:
Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

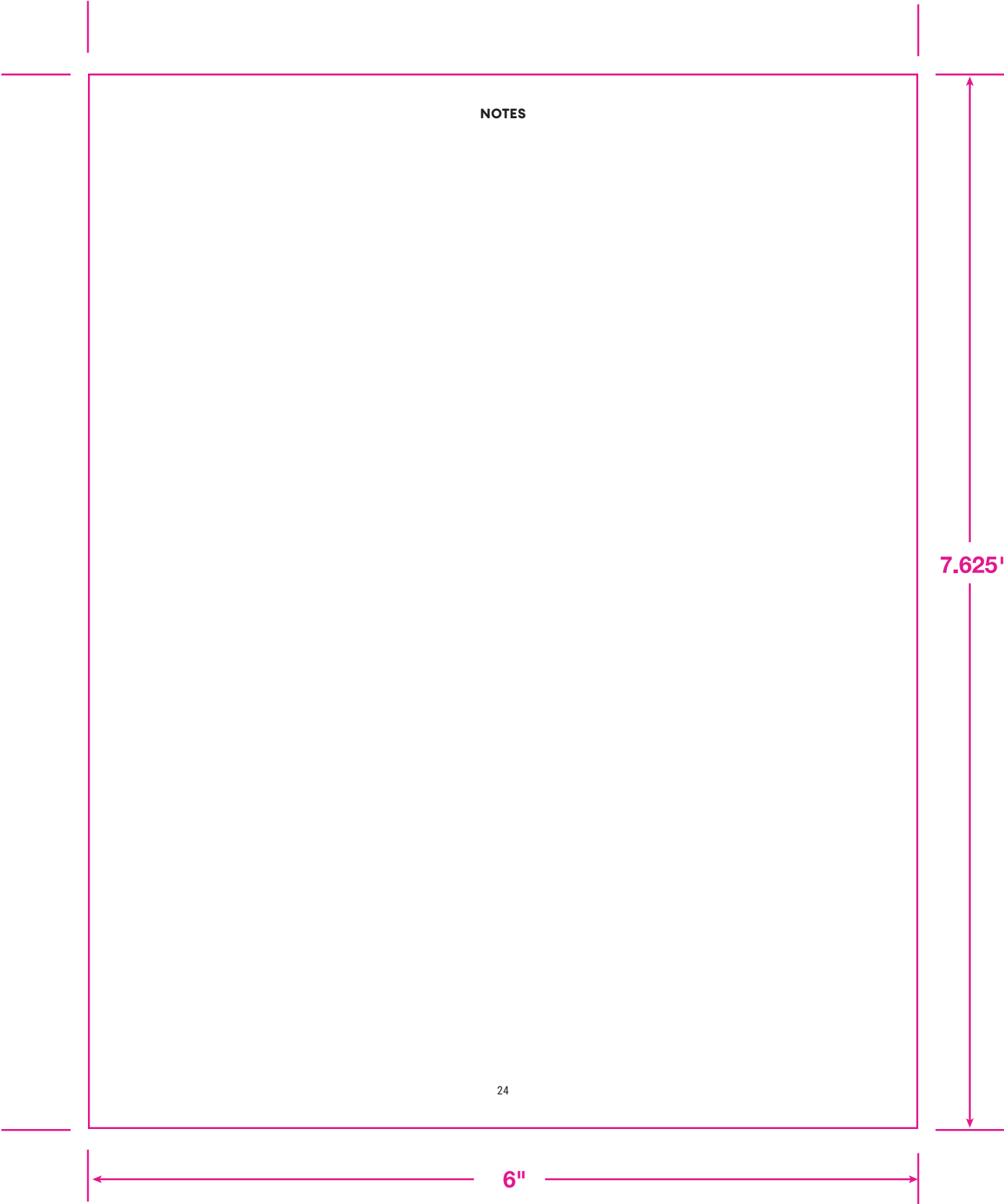
CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.
By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.
CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, plant injury, other property damage, as well as other unintended consequences may result because of factors beyond the control of Environmental Science U.S., LLC. Those factors include, but are not limited to, weather conditions, presence of other materials or the manner of use or application. All such risks shall be assumed by the user or buyer.
DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ENVIRONMENTAL SCIENCE U.S., LLC, MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. NO AGENT OF ENVIRONMENTAL SCIENCE U.S., LLC, IS AUTHORIZED TO MAKE ANY WARRANTIES BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ENVIRONMENTAL SCIENCE U.S., LLC, DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.
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MARSHALTM

Imazapic

Herbicide

For use on Conservation Reserve Program (CRP) land, paved surfaces, pasture and rangeland

ACTIVE INGREDIENT:	% BY WT.
Ammonium salt of imazapic (+/-)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid*)	23.3%
OTHER INGREDIENTS:	76.7%
TOTAL	100.0%

*Equivalent to 21.9% (+/-)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 H-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid 1 gallon contains 2.0 pounds of active ingredient as the free acid

EPA Reg. No. 66222-141-101563

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

For additional Precautionary Statements, Directions for Use and Storage and Disposal, see inside of this booklet.

FIRST AID	
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15 to 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 INHALED:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	• 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

D00001756
DPM00001826A 200501AV2
Net Contents:
2.5 Gallons

envuTM

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

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

GROUNDWATER ADVISORY STATEMENT: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

SURFACE WATER ADVISORY STATEMENT: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of imazapic from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

DIRECTIONS FOR USE

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

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

STORAGE AND DISPOSAL

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