

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Michael Kellogg Alligare, LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332

SEP 1 4 2012

Subject:

Label Notification; Per PR-Notice 98-10

Alligare Imazapyr 4 SL EPA Reg. No. 81927-24

Date Submitted: August 9, 2012

Dear Mr. Kellogg:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated August 9, 2012 for the product referenced above. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Jasmine Branch at (703) 347-0351 or branch.jasmine@epa.gov.

Sincerely

Kable Bo Davis
Product Manager 25

Herbicide Branch

Registration Division (7505P)

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<u>.</u>	Арр	lication for	Pesticide -	Section			1
1. Company/Product Number 81927-24			2. EPA Produ	ct Manager	<u>-</u> .		posed Classification
4. Company/Product (Name) Alligare, LLC / Alligare Imazapyr 4	SL	 	PM#	25			None Restricted
5. Name and Address of Applican Alligare, LLC c/o Pyxis Regulatory Consulting, 4110 136th St. NW Gig Harbor, WA 98332	t (Include ZIP Code)		(b)(i), my pro to: EPA Reg.	d Reveiw. oduct is sim	ilar or ident	ical in cor	FIFRA Section 3(c)(3) nposition and labeling
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Resubmission in response	to Agency letter dated			ncy letter dat Too" Applica		SEP	1 4 2012
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Notification of minor label revisions Notice 98-10 and EPA regulations a product. I understand that it is a vio consistent with the terms of PR Noti penalties under sections 12 and 14	it 40 CFR 152.46, and n lation of 18 U.S.C. Sec. ice 98-10 and 40 CFR 1	o other changes h 1001 to willfully m 52.46, this produc	ave been made t nake any false sta t may be in violati	o the labeling itement to EP.	or the confide	ential staten nderstand th	nent of formula of this lat if this not
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Name		Title			, to p.		No.(Include Area Code)
Michael Kellogg		Agent					3-7369 = 5
I certify that the statements I acknowledge that any kno both under applicable law.	I have made on this f					nplate.	6. Date Application Received (Stamped)
2. Signature		3. Title					((, c
millow Labor	/	Agent					
4. Typed Name	•	5. Date	1				
Michael Kellogg			1			i	

4110 136th St. NW Gig Harbor, WA 98332

Phone: 253-853-7369 Fax: 253-853-5516 www.PyxisRC.com

August 9, 2012

COURIER DELIVERY

Bo Davis (PM 25)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE:

Alligare, LLC – Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24)

Notification of Minor Label Revisions per PRN 98-10 to Facilitate Registration in the State of California

Dear Mr. Davis,

On behalf of Alligare, LLC please find the enclosed notification of minor label revisions to Alligare Imazapyr 4 SL (EPA Reg. No. 81927-24) to facilitate registration in the State of California. Changes made to the enclosed labeling are "tracked" and appear on pg.'s 4 and 20-24. These changes include restricting use in California on forestry sites, drainage ditches, marshes, swamps and bogs and off-labeling certain aquatic weeds from use in California.

In support of this notification submission, we submit the following documents:

- 1. Completed Application for Registration (EPA Form 8570-1)
- 2. One (1) copy of the Alligare Imazapyr 4 SL labeling with changes tracked
- 3. One (1) copy of the Alligare Imazapyr 4 SL labeling with changes incorporated
- 4. Certification With Respect to Label Integrity
- 5. One (1) copy of the Alligare Imazapyr 4 SL labeling on CD
- 6. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

Sincerely

Michael Kellogg

Enclosures

Alligare Imazapyr 4 SL

For the control of undesirable vegetation in forestry sites, aquatic sites, grass pasture, rangeland, fence rows, maintenance of wildlife openings, and industrial noncropland areas including railroad, utility, pipeline rights-of-way, utility plant sites, petroleum tank farms, pumping installations, storage areas, building perimeters, irrigation and non-irrigation ditchbanks, roads, transmission lines, and industrial bare ground areas.

In the State of New York, aquatic uses are not allowed.

ACTIVE INGREDIENT: Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-			
(1-methylethyl)-5-oxo-1 <i>H</i> -imidazol-2-yl]-3-pyridinecarboxylic acid)*	52.6%		
OTHER INGREDIENTS	47.4%		
TOTAL			

^{*}Equivalent to 42.9% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 4 pounds acid per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION!/PRECAUCION!

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

	FIRST AID			
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 the poison control center or doctor. DO NOT give anything by mouth to an unconscious person. 			
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 			
If on skin or clothing:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 			
If inhaled:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 			
	HOT LINE NUMBER			

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-424-9300.

EPA Reg. No. 81927-24

ÆβA∘Est. No.

Manufactured For:

NOTIFICATION

Alligare, LLC 13 N. 8th Street Opelika, AL 36801

SEP 1 4 2012

Net Contents:

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeve shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all mixers and loaders, plus applicators using handheld equipment

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

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

User Safety Recommendations:

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

ENVIRONMENTAL HAZARDS

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas. Do not apply to water except as specified on this label. Treatment of aquatic weeds may result in oxygen depletion or loss due to decomposition of dead plants. Do not treat more than one-half the surface area of the water in a single operation and wait at least 10 to 14 days between treatments. Begin treatments along the shore and proceed outward in bands to allow aquatic organisms to move into untreated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. See Directions for Use for additional precautions and requirements.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Alligare Imazapyr 4 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store or apply Alligare Imazapyr 4 SL or spray solutions of Alligare imazapyr 4 SL in unlined steel (except stainless steel) containers or spray tanks.

DIRECTIONS FOR USE

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

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Alligare Imazapyr 4 SL should be used only in accordance with directions on the booklet label. Keep containers closed to avoid spills and contamination.

Alligare Imazapyr 4 SL may be applied using helicopters, ground operated sprayers, low-volume handoperated spray equipment such as back-pack and pump-up sprayers, and tree injection equipment.

Observe all cautions and limitations in the labels of products used in combination with Alligare Imazapyr 4 SL.

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. The requirements in this box apply to use on trees being grown for sale or other commercial use, or for commercial seed production, or for production of timber or wood products, or for research purposes.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of **48 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
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

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

Do not enter treated areas until sprays have dried.

IMPORTANT

DO NOT use on food or feed crops. DO NOT use on Christmas trees. DO NOT apply this product within one-half mile upstream of an active potable water intake in flowing water (i.e., river, stream, etc.) or within one-half mile of an active potable water intake in a standing body of water, such as a lake, pend or reservoir. DO NOT apply to water used for irrigation except as described in APPLICATION TO WATERS USED FOR IRRIGATION section of this label. Keep from contact with fertilizers, insecticides, fungicides, and seeds to prevent unintentional exposure of desirable vegetation to this product. DO NOT apply or drain or flush equipment on or near sensitive desirable plants, or on areas where their roots may extend,

or in locations where the chemical may be washed or moved into contact with their roots. **DO NOT** drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the treated soil may be washed or moved into contact with their roots. **DO NOT** apply to lawns. **DO NOT** side trim desirable vegetation with this product unless severe injury and plant death can be tolerated. Prevent drift of spray to desirable plants. Clean application equipment after using this product by thoroughly flushing with water.

RESISTANCE

When herbicides with the same mode of action are used repeatedly over several years to control the same weed species in the same application site, naturally occurring resistant weed biotypes may survive a correctly applied herbicide treatment, propagate and become dominant in that site. These resistant weed biotypes may not be adequately controlled. Using herbicides with different modes of action within these sites can aid in delaying the proliferation and possible dominance of herbicide resistant weed biotypes. It is advisable that each user of this product check with the local extension service for a current list of resistant weed biotypes.

PRODUCT INFORMATION

Alligare Imazapyr 4 SL is an aqueous solution intended to be mixed in water and surfactants(s) and applied as a post-emergent spray for control of most annual and perennial grasses, broadleaf weeds, vines, brambles, hardwood brush, trees for forestry site preparation and release of conifers from woody and herbaceous competition. This product may be used for selective woody and herbaceous weed control in natural regeneration of certain conifers (see pine release). This product may also be mixed in water and used for stump and cut-stem treatment for control of unwanted woody vegetation. This product can be applied along forest roads to control undesirable vegetation. This product can be used for the control of undesirable vegetation along non-irrigation ditchbanks and for the establishment and maintenance of wildlife openings. See use directions for stump and cut stem treatments and herbaceous weed control and use directions for spot treatment of undesirable hardwood vegetation.

This product may be applied on forestry sites that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by forest management activities, except in the states of California and of New York. It is permissible to treat drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites when no water is present, except in the states of California and New York. Only the edge of drainage ditches can be treated for drainage ditches that contain water. It is also permissible to treat marshes, swamps, and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York.

When applied postemeregence to weeds, Alligare Imazapyr 4 SL will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. Alligare Imazapyr 4 SL will provide residual control of labeled weeds which germinate in the treated areas. Postemergence application with a surfactant is the method of choice in most situations, particularly for perennial weeds. For maximum affect, weeds should be growing vigorously at postemergence application and the spray solution should include a surfactant. Alligare Imazapyr 4 SL solutions may be broadcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques. In addition, Alligare Imazapyr 4 SL may be used for stump and cut stem treatments.

Alligare Imazapyr 4 SL controls vegetation by absorbtion through foliage and roots, from which it is translocated rapidly throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after spray treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves and necrosis spreads from this point. In perennials, Alligare Imazapyr 4 SL is translocated into and kills the roots and underground storage tissues to prevent most regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application and may take months for various woody plants, brush and trees.

PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Untreated desirable plants can be affected by root uptake of this product from treated soil. Injury or loss of desirable plants may result if this product is applied on or near desirable plants, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their roots. When making applications along shorelines where desirable plants may be present, caution should be exercised to avoid spray contact with their foliage or spray application to the soil in which they are rooted. Shoreline plants that have roots that extend into the water in an area where this product has been applied generally will not be adversely affected by uptake of the herbicide from the water.

If treated vegetation is to be removed from the application site, **DO NOT** use the vegetative matter as mulch or compost on or around desirable species.

Untreated trees can occasionally be affected by root uptake of this product through movement into the top soil. Injury or loss of desirable trees or other plants may result if this product is applied on or near desirable trees or other plants, on areas where their roots extend or in locations where the treated soil may be washed or moved into contact with their roots.

SPRAY DRIFT MANAGEMENT

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

Spray drift from applying this product may damage sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS).

Controlling Droplet Size:

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

Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this

displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

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

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water 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.

Aerial Applications:

- 1) Applicators are required to use a coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet; Applicators are required to use a very coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet; Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.
- 2) Applicators are required to use upwind swath displacement.
- 3) The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.
- 4) Applications with wind speed less than 3 mph and with wind speeds greater than 10 mph are prohibited.
- 5) Applications into temperature inversions are prohibited.

Ground Application (Broadcast): Use 5 or more gallons of water 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.

Ground Boom Applications:

- 1) Applicators are required to use a nozzle height below 4 feet above the ground or plant canopy and coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater.
- 2) Applications with wind speeds greater than 10 mph are prohibited.
- 3) Applications into temperature inversions are prohibited.

The use of treated waters on irrigated crops within 120 days is prohibited.

ADJUVANTS

Postemergence applications of this product may require the addition of a spray adjuvant for optimum herbicide performance. Only use spray adjuvants that are labeled for the specific use sites. When using for conifer release treatments, please refer to the conifer release section of this label. The addition of a Chemical Producers and Distributors Associations (CPDA) certified adjuvant may increase control. A CPDA certified drift control agent may also be used.

Nonionic Surfactants: Use a nonionic surfactant at the rate of 0.25% v/v or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 90% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

Methylated Seed Soils or Vegetable Oil Concentrates: Instead of a surfactant, a methylated seed oil or vegetable-based seed oil concentrate may be used at the rate of 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, methylated seed oil or vegetable based seed oil concentrates should be mixed at a rate of 1% of the total spray volume, or alternatively use a nonionic surfactant as described above. Research indicates that these oils may aid in product deposition and uptake by plants under moisture or temperature stress.

Silicone Based Surfactants: See manufacturer's label for specific rates instructions. Silicone-based surfactants may reduce the surface tension of the spray droplet, allowing greater spreading on the leaf surface as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake.

Invert emulsions: This product can be applied as an invert emulsion. Consult the invert chemical label for proper mixing directions.

Fertilizer/Surfactant Blends: Nitrogen based liquid fertilizers such as 28%N, 32%N, 10-34-0 or ammonium sulfate, may be added at the rate of 2 to 3 pints per acre in combination with the specified rate of nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate. The use of fertilizers in a tank mix without a nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate is not recommended.

Other: An antifoaming agent, spray pattern indicator or drift reducing agent may be applied at the product labeled rate if necessary or desired.

WEEDS CONTROLLED

Alligare Imazapyr 4 SL provides postemergence control and some residual control of the following target weed species. The degree of control is both species and rate dependent. Use Alligare Imazapyr 4 SL only in accordance with the directions on this label.

GRASSES:

The species of annual and perennial grasses controlled by Alligare Imazapyr 4 SL include the following:

Annual bluegrass (Poa annua)
Bahiagrass (Paspalum notatum)
Barnyardgrass (Echinochloa crus-galli)
Beardgrass (Andropogon spp.)
Bermudagrass (Cynodon dactylon)¹
Big bluestem (Andropogon gerardii)
Broadleaf signalgrass (Brachiaria platyphylla)
Canada bluegrass (Poa compressa)

Cattail (Typha spp.)

Cheat (Bromus secalinus)

Cogongrass (Imperata cylindrica)²

Crabgrass (Digitaria spp.)

Crowfootgrass (Dactyloctenium aegyptium)

Dallisgrass (Paspalum dilatatum)

Downy brome (Bromus tectorum)

Fall panicum (Panicum dichotomiflorum)

Feathertop (Pennisetum villosum)

Fescue (Festuca spp.)

Foxtail (Setaria spp.)

Giant reed (Arundo donax)

Goosegrass (Eleusine indica)

Guineagrass (Panicum maximum)

Italian ryegrass (Lolium multiflorum)

Itchgrass (Rottboellia exaltata)

Johnsongrass (Sorghum halepense)¹

Junglerice (Echinochloa colonum)

Kentucky bluegrass (Poa pratensis)

Lovegrass (Eragrostis spp.)1

Orchardgrass (Dactylis glomerata)

Panicum spp.

Paragrass (Brachiaria mutica)

Phragmites (Phragmites australis)

Prairie cordgrass (Spartina pectinata)

Prairie threeawn (Aristida oligantha)

Quackgrass (Agropyron repens)

Reed canarygrass (Phalaris arundinacea)

Saltgrass (Distichlis stricta)

Sand dropseed (Sporobolus cryptandrus)

Sandbur (Cenchrus spp.)

Smooth brome (Bromus inermis)

Sprangletop (Leptochloa spp.)

Timothy (Phleum pratense)

Torpedograss (Panicum repens)

Vaseygrass (Paspalum urvillei)

Wild barley (Hordeum spp.)

Wild oats (Avena fatua)

Wirestem muhly (Muhlenbergia frondosa)

Witchgrass (Panicum capillare)

Woolly cupgrass (Eriochloa villosa)

BROADLEAF WEEDS:

The species of annual and perennial broadleaf weeds controlled by **Alligare Imazapyr 4 SL** include the following:

Arrowwood (Pluchea sericea)

Broom snakeweed (Gutierrezia sarothrae)

Bull thistle (Cirsium vulgare)

Burclover (Medicago spp.)

Burdock (Arctium spp.)

Camphorweed (Heterotheca subaxillaris)

Canada thistle (Cirsium arvense)

Carolina geranium (Geranium carolinianum)

¹Use higher labeled rates.

² Use minimum of 24 oz. per acre.

Carpetweed (Mullugo verticillata)

Chickweed, mouseear (Cerastium vulgatum)

Clover (Trifolium spp.)

Cocklebur (Xanthium strumarium)

Common chickweed (Stellaria media)

Common ragweed (Ambrosia artemisiifolia)

Cudweed (Gnaphalium spp.)

Dandelion (Taraxacum officinale)

Desert camelthorn (Alhagi pseudalhagi)

Diffuse knapweed (Centaurea diffusa)

Dock (Rumex spp.)

Dogfennel (Eupatorium capillifolium)

Fiddleneck (Amsinckia intermedia)

Filaree (Erodium spp.)

Fleabane (Erigeron spp.)

Giant ragweed (Ambrosia trifida)

Goldenrod (Solidago spp.)

Gray rabbitbrush (Chrysothamnus nauseosus)

Henbit (Lamium aplexicaule)

Hoary vervain (Verbena stricta)

Horseweed (Conyza canadensis)

Indian mustard (Brassica juncea)

Japanese bamboo/knotweed (Polygonum cuspidatum)

Knotweed, prostrate (Polygonum aviculare)

Kochia (Kochia scoparia)

Lambsquarters (Chenopodium album)

Little mallow (Malva parviflora)

Milkweed (Asclepias spp.)

Miners lettuce (Montia perfoliata)

Mullein (Verbascum spp.)

Nettleleaf goosefoot (Chenopodium murale)

Oxeye daisy (Chrysanthemum leucanthemum)

Pepperweed (Lepidium spp.)

Pigweed (Amaranthus spp.)

Plantain (Plantago spp.)

Pokeweed (Phytolacca americana)

Primrose (Oenothera kunthiana)

Puncturevine (Tribulus terrestris)

Purple loosestrife (Lythrum salicaria)

Purslane (Portulaca spp.)

Pusley, Florida (Richardia scabra)

Rocket, London (Sisymbrium irio)

Rush skeletonweed (Chondrilla juncea)

Russian knapweed (Centaurea repens)

Russian thistle (Salsola kali)

Saltbush (Atriplex spp.)

Shepherd's purse (Capsella bursa-pastoris)

Silverleaf nightshade (Solanum elaeagnifolium)

Smartweed (Polygonum spp.)

Sorrell (Rumex spp.)

Sowthistle (Sonchus spp.)

Spurge, annual (Euphorbia spp.)

Stinging nettle (Urtica dioica)

Sunflower (Helianthus spp.)

Sweet clover (Melilotus spp.)

Tansymustard (Descurainia pinnata)

Texas thistle (Cirsium texanum)
Velvetleaf (Abutilon theophrasti)
Western ragweed (Ambrosia psilostachya)
Wild carrot (Daucus carota)
Wild lettuce (Lactuca spp.)
Wild parsnip (Pastinaca sativa)
Wild turnip (Brassica campestris)
Woollyleaf bursage (Ambrosia grayi)
Yellow starthistle (Centaurea solstitialis)
Yellow woodsorrel (Oxalis stricta)

VINES AND BRAMBLES:

The species of vines and brambles controlled by Alligare Imazapyr 4 SL include the following:

Field bindweed (Convolvulus arvensis)

Hedge bindweed (Calystegia sequium)

Honeysuckle (Lonicera spp.)1

Morningglory (Ipomoea spp.)

Poison ivy (Rhus radicans)

Redvine (Brunnichia cirrhosa)

Trumpetcreeper (Campsis radicans)

Virginia creeper (Parthenocissus quinquefolia)

Wild buckwheat (Polygonum convolvulus)

Wild grape (Vitis spp.)

Wild rose (Rosa spp.)1

Including: Multiflora rose (Rosa multiflora)

Macartney rose (Rosa bracteata)

WOODY BRUSH AND TREES:

The species of woody brush and trees controlled by Alligare Imazapyr 4 SL include the following:

Alder:(Alnus spp.)

American beech (Fagus grandifolia)

Ash (Fraxinus spp.)

Aspen (Populus spp.)

Autumn olive (Elaeagnus umbellata)

Bald cypress (Taxodium distichum)

Bigleaf Maple (Acer macrophyllum)

Birch (Betula spp.)1

Black oak (Quercus kelloggii)

Blackgum (Nyssa sylvatica)2

Boxelder (Acer negundo)

Brazilian peppertree (Schinus terebinthifolius)

Ceanothis (Ceanothis spp.)

Cherry (Prunus spp.)1,2

Chinaberry (Melia azedarach)

Chinese tallow-tree (Sapium sebiferum)

Chinquapin (Castanopsis chrysophylla)

Cottonwood (Populus trichocarpa and Populus deltoides)

Cypress (Taxodium spp.)

Dogwood (Cornus spp.)

Eucalyptus (Eucalyptus spp.)

Hawthorn (Crataegus spp.)

Hickory (Carya spp.)1

¹ Use higher labeled rates.

Huckleberry (Gaylussacia spp.)

Lyonia spp.

Including: Fetterbush (Lyonia lucida)

Staggerbush (Lyonia mariana)

Madrone (Arbutus menziesii)

Maple (Acer spp.)

Melaleuca (Melaleuca quinquenervia)

Mulberry (Morus spp.)1.

Oak (Quercus spp.)

Persimmon (Diospyros virginiana)²

Poison oak (Rhus diversiloba)

Popcorn-tree (Sapium sebiferum)

Poplar (Populus spp.)

Privet (Ligustrum vulgare)

Red Alder (Alnus rubra)

Red Maple (Acer rubrum)

Saltcedar (Tamarix pentandra)

Sassafras (Sassafras albidum)

Sourwood (Oxydendrum arboreum)²

Sumac (Rhus spp.)

Sweetgum (Liquidambar styraciflua)

Sycamore (Platanus occidentalis)

Tanoak (Lithocarpus densiflorus)

TiTi (Cyrilla racemiflora)5

Tree of heaven (Ailanthus altissima)

Vaccinium spp.

Including: Blueberry (Vaccinium spp.)

Sparkleberry (Vaccinium arboretum)

Willow (Salix spp.)

Yellow poplar (Liriodendron tulipifera)¹

¹ Use higher labeled rates.

² Best control with applications prior to formation of fall leaf color.

³ The degree of control may be species dependent.

⁴ For Water oak (Quercus nigra), Laurel oak (Q. laurifloria), Willow oak (Q. phellos) and Live oak (Q. virginiana) use higher labeled rates.

⁵ Suppression only.

MIXING AND APPLICATION INSTRUCTIONS

HELICOPTER EQUIPMENT:

Thoroughly mix the specified amount of **Alligare Imazapyr 4 SL** in 5 to 30 gallons of water per acre and apply uniformly with properly calibrated helicopter equipment. Use a nonionic surfactant to improve weed control. A drift control agent may be used at its specified label rate. An anti-foam agent may be added, if needed. Exercise all precautions to minimize or eliminate spray drift. Avoid applications during windy or gusty conditions. Use of a Microfoil™ boom, Thru-Valve™ boom, raindrop nozzles, controlled droplet booms and nozzle configurations is recommended. Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

IMPORTANT: **DO NOT** make applications by fixed wing aircraft.

Thoroughly clean mixing and application equipment by thoroughly flushing with water immediately after using this product. Prolonged exposure of uncoated/unpainted steel (except stainless steel) surfaces to this product may result in corrosion and failure of the exposed part. Maintaining painted surfaces may prevent corrosion.

GROUND EQUIPMENT:

Thoroughly mix and apply the specified amount of **Alligare Imazapyr 4 SL** in 5 to 100 gallons of water per acre. Use a nonionic surfactant to enhance weed control. A drift control agent and an anti-foam agent may also be added at the specified label rates, if needed. If desired, a spray pattern indicator may be used at the specified label rate. To minimize spray drift, select proper nozzles to avoid spraying a fine mist, use pressures less than 50 psi and **DO NOT** spray under gusty or windy conditions (also refer to **SPRAY DRIFT MANAGEMENT** section). Maintain adequate buffer zones to minimize potential impacts to desirable vegetation.

For best results, apply the spray solution to uniformly cover the foliage of the undesirable vegetation to be controlled.

Clean mixing and application equipment immediately after using this product by thoroughly flushing with water.

FOLIAR APPLICATIONS

Low Volume Foliar:

For low volume, select proper nozzles to avoid over-application. Moisten, but do not drench target vegetation causing spray solution to run off. Proper application is critical to ensure desirable results. Best results are achieved when the spray covers the crown and approximately 70 percent of the plant.

DIRECTED FOLIAR OR SPOT SPRAY EQUIPMENT:

For directed or spot spray applications with helicopter, ground equipment or low-volume hand-operated spray equipment, thoroughly mix 1.0 to 5.0% **Alligare Imazapyr 4 SL** by volume (v/v) in water with at least 1/4% nonionic surfactant by volume, according to the table below.

MIXING GUIDE FOR ALLIGARE IMAZAPYR 4 SL

SOLUTION VOLUME	Alliq COI	NONIONIC SURFACTANT		
	1.0	2.5	5.0	
1 gallon	- 1-1/3 oz.	3-1/3 oz.	6-2/3 oz.	1/3 oz.
5 gallons	6-2/3 oz.	1 pint	2 pints	1-2/3 oz.
10 gallons	13-1/3 oz.	2 pints	4 pints	3-1/3 oz.
25 gallons	2 pints	5 pints	10 pints	8 oz.
100 gallons	1 gal.	2.5 gal.	5 gal.	2 pints

² tabléspoons = 1 fluid ounce

For optimum performance and efficacy, apply spray to uniformly cover the target vegetation foliage. Direct spray to avoid contacting desirable conifers. Avoid direct application to desired plant species as injury may occur.

IMPORTANT: **DO NOT** over apply to cause run-off from treated foliage. **DO NOT** exceed specified dosage rate per acre.

CUT STUBBLE:

This product can be applied within 2 weeks after mechanical mowing or cutting of brush. To suppress or control resprouting, uniformly apply a spray solution of this product at the rate of 1 to 2 pints per acre to the cut area. This product may be tank-mixed with picloram, or equivalent labeled product for this use to aid in control or suppression of brush. The addition of 5% (v/v) or more of a penetrating agent can aid in uptake through the bark or exposed roots.

Cut stubble applications are made to the soil and cut brush stumps. This type of application may increase ground cover injury. However, vegetation will recover. Making applications of this product directly to the soil can increase potential root uptake causing injury or death of desirable trees.

Efficacy can be increased and root uptake by desirable vegetation can be decreased if the brush is allowed to regrow and the foliage is treated. See the Brush Control section of this label.

STUMP AND CUT STEM TREATMENTS

Alligare Imazapyr 4 SL will control undesirable woody vegetation in forest management when applied as a water solution to the cambium area of freshly-cut stump surfaces or to cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall. DO NOT over-apply to cause run-off or puddling of spray solution.

MIXING:

Mix Alligare Imazapyr 4 SL as either a concentrate or dilute solution for stump and cut stem treatments. Apply dilute solutions to the surface of the stump or to cuts on the stem of the target woody vegetation. Apply concentrate solutions to cuts on the stem. Use of the concentrate solutions permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application directions below to determine proper application techniques for each type of solution.

To prepare a dilute solution, mix 4 to 6 fluid ounces of **Alligare Imazapyr 4 SL** with one gallon of water. Except in the state of California, if temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be added according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve herbicide uptake through partially callused cambium tissue.

To prepare a concentrated solution, use undiluted **Alligare Imazapyr 4 SL** product or mix up to 75% water, by volume.

APPLICATION WITH DILUTE SOLUTIONS:

For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Thoroughly wet the entire cambium area (the wood next to the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Insure that the injector completely penetrates the bark at each injection site.

For frill or girdle treatments: Use a hatchet, machete or similar implement to make cuts through the bark around the tree at intervals no more than two inches between cut edges. Spray or brush Alligare Imazapyr 4 SL solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS:

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every three inches of Diameter at Breast Height (DBH) on the target tree. For example, a three inch DBH tree will receive 1 injection cut while a six inch DBH tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For hack and squirt treatments: Use a hatchet, machete or similar implement to make cuts at a downward angle completely through the bark and cambium at approximately equal intervals around the tree. Make at least one cut for every 3 inches of DBH on the target tree as described above, using a squirt bottle, syringe, or similar device apply about 1 milliliter of concentrate solution into each cut, ensuring that the solution does not run out of the cut.

NOTE: Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.

SITE PREPARATION TREATMENTS

Alligare Imazapyr 4 SL will control labeled grass and broadleaf weeds, vines, brambles, woody brush and trees on forest sites when applied before replanting the following conifer crop species:

Crop Species	Rate (fl oz./A)
Loblolly Pine (Pinus taeda)	24 – 40
Loblolly X Pitch Hybrid	24 – 40
Longleaf Pine (Pinus palustris)	24 – 40
Shortleaf Pine (Pinus echinata)	24 – 40
Virginia Pine (<i>Pinus virginiana</i>)	24 – 40
Slash Pine (Pinus elliottii)	20 – 32
Douglas-Fir (Pseudotsuga menziesii)	12 - 24
Coastal Redwood (Sequoia sempervirens)	12 - 24
Western Hemlock (Tsuga heterophylla)	12 – 24
California Red Fir (Abies magnifica)	12 – 20
California White Fir (Abies concolor)	12 – 20
Jack Pine (<i>Pinus banksiana</i>)	12 – 16
Lodgepole Pine (Pinus contorta)	12 - 16
Pitch Pine (<i>Pinus rigida</i>)	12 – 16
Ponderosa Pine (Pinus ponderosa)	12 – 16
Sugar Pine (<i>Pinus lambertiana</i>)	12 – 16
White Pine (Pinus strobus)	12 – 16
Black Spruce (Picea mariana)	12 – 16
Red Spruce (Picea rubens)	12 – 16
White Spruce (<i>Picea glauca</i>)	12 – 16

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre as a broadcast foliar spray for long-term control of labeled woody plants and residual control of herbaceous annual and perennial weeds. Within 4 to 6 weeks of treatment, herbaceous weeds will be controlled and may provide fuel to facilitate a site preparation burn for controlling conifers or other species tolerant to the herbicide.

For helicopter applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 30 gallons total spray solution. For mechanical ground sprays and backpack applications, apply the specified rate of **Alligare Imazapyr 4 SL** per acre in 5 to 100 gallons total spray solution. Use at least 1/2% percent by volume nonionic surfactant. Use the higher label rates of **Alligare Imazapyr 4 SL** and higher spray volumes to control especially dense, multi-layered canopies of hardwood stands or difficult to control species.

Tank mixes may be necessary to control conifers and other species that are tolerant to **Alligare Imazapyr 4 SL**. Observe all precautions and restrictions on the tank mix partner label. Always follow the most restrictive label. NOTE that some other products labeled for forest site preparation may kill plants such as legumes and blackberry that are desirable for wildlife habitat.

Where quick initial brown out (deadening of foliage) is desired for burning, apply a tank mixture of 16 to 32 fluid oz. Alligare Imazapyr 4 SL plus 16 to 64 fluid oz. Accord® or 16 to 48 fluid oz. Garlon 4TM per acre. To control seedling pines, apply 16 to 32 fluid oz. Alligare Imazapyr 4 SL plus 3 to 4 quarts Accord®. For site preparation, rates less than 24 oz. Alligare Imazapyr 4 SL will provide suppression of hardwood brush and trees; however, some resprouting may occur.

DO NOT plant seedlings of Black Spruce (*Picea mariana*) or White Spruce (*Picea glauca*) on sites that have been broadcast treated with **Alligare Imazapyr 4 SL** or into the treated zone of spot or banded applications for at least three months after treatment or injury may occur.

HERBACEOUS WEED CONTROL

Use Alligare Imazapyr 4.SL for selective weed control in the following conifers:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (Pinus taeda)	6 - 10
Loblolly X Pitch Hybrid	6 - 10
Virginia Pine (Pinus virginiana)	6 - 10
Longleaf Pine (Pinus palustris) ¹	4 - 6
Shortleaf Pine (Pinus echinata) ¹	4 - 6
Slash Pine (Pinus elliottii) ¹	4 - 6
Douglas-Fir (Pseudotsuga menziesii) ¹	4 - 6

¹Use of surfactant is not recommended.

Alligare Imazapyr 4 SL may be broadcast, banded over tree rows or directed for release of young conifers from herbaceous weeds. To diminish the possibility of conifer injury, DO NOT apply Alligare Imazapyr 4 SL when conifers are under stress from drought, diseases, animal or winter injury, planting shock or other stresses that may reduce conifer vigor. Broadcast applications may be made by helicopter, ground or backpack sprayer. For best results, apply Alligare Imazapyr 4 SL to newly emerged weeds. Use the higher labeled rates for hard-to-control weeds. Where herbaceous weeds have over-topped conifer seedlings, add a nonionic surfactant at up to 1/4% of the spray solution volume to improve weed control (except for Slash Pine, Longleaf Pine, and Douglas-fir). Conifers in the treated area may exhibit minor growth inhibition, especially when treatments are applied during periods of active conifer growth.

Alligare Imazapyr 4 SL may also be applied by backpack or hand-held sprayers to control herbaceous weeds around individual conifer seedlings. Mix 0.4 to 0.6 fluid oz. Alligare Imazapyr 4 SL and 0.2 fluid oz. nonionic surfactant per gallon of water. Direct the spray to the weeds and minimize spray contact with conifer seedlings to avoid seedling damage. DO NOT exceed the maximum labeled rates listed above.

Alligare Imazapyr 4 SL can also be tank mixed with a sulfometuron-methyl product to broaden the weed control spectrum. For loblolly pine only, apply 4 to 6 fluid oz. Alligare Imazapyr 4 SL plus a sulfometuron-methyl product at the specified label rate per acre. Application of Alligare Imazapyr 4 SL plus Oust[®] to other conifer species, however, may cause growth suppression.

CONIFER RELEASE TREATMENTS

Alligare Imazapyr 4 SL may be applied as a broadcast or directed spray to suppress the labeled brush, tree and herbaceous weed species. In conifer stands of all ages, use directed low-volume sprays onto unwanted vegetation and avoid direct contact to the conifers. DO NOT exceed the maximum labeled rates listed below.

Use broadcast applications of **Alligare Imazapyr 4 SL** for release of the following conifers from hardwood competition:

Crop Species	Rate (fl. oz./A)
Loblolly Pine (Pinus taeda) ³	12 - 20
Loblolly X Pitch Hybrid ³	12 - 20
Virginia Pine (Pinus virginiana) ³	12 - 20
Longleaf Pine (Pinus palustris)	12 - 16
Pitch Pine (Pinus rigida)	12 - 16
Shortleaf Pine (Pinus echinata)	12 - 16
Slash Pine (Pinus elliottii)	12 - 16

Crop Species	Rate (fl. oz./A)
White Pine (Pinus strobus) ¹	8 - 16
California Red Fir (Abies magnifica)	8 - 12
California White Fir (Abies concolor)	8 - 12
Lodgepole Pine (Pinus contorta) ²	8 - 12
Douglas-Fir (Pseudotsuga menziesii) ²	8 - 12
Jack Pine (Pinus banksiana) ²	6 - 12
Black Spruce (Picea mariana) ²	6 - 12
Red Spruce (Picea rubens) ²	6 - 12
White Spruce (Picea glauca) ²	6 - 12

DO NOT make applications to white pine stands younger than three years old. To minimize potential injury to White Pine, release treatments should not be made prior to July 15.

Applications should be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

Mid-rotation release: For broadcast applications below the pine canopy in established stands of Loblolly Pine, Loblolly X pitch hybrid, and Virginia Pine use 16-32 oz. product per acre. For mid-rotation release of other species use rates listed above.

Apply the specified rate of **Alligare Imazapyr 4 SL** per acre when applying broadcast sprays by helicopter or ground spray equipment. Refer to mixing and application instructions for proper spray volumes. A nonionic surfactant may be added but at no more than 1/4% by volume of the finished spray. Use the higher label rates of **Alligare Imazapyr 4 SL** when controlling especially dense stands or hard to control species.

Conifers may exhibit some minor growth inhibition when release treatments are made during periods of active conifer growth. To minimize potential growth inhibition, **DO NOT** make broadcast applications to conifer stands, except loblolly pine, before the end of the second growing season and, then, not until late in the growing season. To reduce the possibility of conifer injury, **DO NOT** apply **Alligare Imazapyr 4 SL** when conifers are under stress from drought, diseases, animal or winter injury, or other stresses that reduce conifer vigor.

For release of loblolly pine seedlings during the first growing season following planting or for one-year-old natural loblolly pine regeneration: For one-year-old loblolly pine release, apply 12-20 fluid oz./A Alligare Imazapyr 4 SL after July 15. Use rates below 16 fluid oz./A for growth suppression of hardwoods; however, some hardwood resprouting should be expected.

For release of 2-to-5 year old slash pine and longleaf pine from undesirable woody plants: Broadcast release treatments over the top of pines after August 15 and only in stands 2 to 5 years old. **DO NOT** add surfactant to the spray solution and use the lower labeled rates on areas with sandy soils.

For release of slash pine over 5 years old by aerial application: Apply ONLY after September 15 after height growth has stopped and buds have set. Use 12 to 14 fluid oz Alligare Imazapyr 4 SL per acre but only 12 fluid oz on areas with sandy soils. DO NOT add surfactant to the spray solution. DO NOT over apply by overlapping the spray pattern or dressing up around the edges of a tract. Since this treatment may cause some inhibition in height growth or terminal dieback, it should not be used if such affects are unacceptable.

For use ONLY in Maine for release of Jack Pine, Black Spruce, Red Spruce and White Spruce: For hardwood growth suppression, apply Alligare Imazapyr 4 SL at rates less than 6 fluid oz. per acre when tank mixed with glyphosate. Use a nonionic surfactant at rates greater than 0.25% v/v. The use of Alligare Imazapyr 4 SL with more than 0.25% v/v nonionic surfactant can result in conifer growth inhibition or mortality, and should not be used if this type of conifer injury is unacceptable.

The use of **Alligare Imazapyr 4 SL** rates below 6 oz./A are intended for hardwood brush growth suppression and hardwood brush resprouting should be expected.

USE FOR SPOT TREATMENT OF UNDESIRABLE BRUSH AND HARDWOOD VEGETATION

Apply Alligare Imazapyr 4 SL as a directed foliar or cut stem application in conifer stands of all ages for the conifer species listed above. Mix and apply as described above for directed foliar or cut stem applications. **DO NOT** exceed the maximum labeled rates listed above. Cut stem applications may be used for spot treatment of undesirable hardwoods in Ponderosa Pine stands using 12 oz. or less of product per acre.

Avoid direct spray contact to desired plant species as injury may occur. Injury may occur to non-target or desirable hardwoods or conifers if they extend from the same root system or their root systems are grafted to those of the treated tree or if their roots extend into the treated zone.

LATE ROTATION VEGETATION CONTROL IN WESTERN CONIFERS

In California, the Pacific Northwest and Inland Northwest, broadcast aerial applications of this product up to 24 fl. oz./A are permissible in conifer stands that are targeted for harvesting the year following treatment. Use minimum spray volume of 15 gallons per acre. Do not use this treatment if conifer injury or mortality cannot be tolerated.

BAG AND SPRAY APPLICATIONS FOR CONIFER RELEASE

In Douglas fir and Ponderosa pine stands, broadcast applications of this product up to 16 fl. oz./A are permissible when the trees are covered by bags prior to the application. The bags must prevent the spray mix from contacting the conifer foliage. On sites with coarse textured soils (e.g., decomposed granite, pumice, sandy or rocky sites) or low levels of soil organic matter (generally 5% or less) significant conifer growth inhibition and mortality is possible. Do not use this treatment on these types of sites if conifer growth inhibition and mortality cannot be tolerated.

AQUATIC USE SECTION USE PRECAUTIONS AND RESTRICTIONS FOR AQUATICS

In the state of New York, Aquatic Uses are Not Allowed.

Applications may only be made for the control of undesirable emergent and floating aquatic vegetation in and around standing and flowing water, including estuarine and marine sites. Applications may be made to control undesirable wetland, riparian and terrestrial vegetation growing in or around surface water.

Aerial application is restricted to helicopter only.

Application of this product can only be made by federal or state agencies, such as Water Management District personnel, municipal officials and the U.S. Army Corps of Engineers, or those applicators who are licensed or certified as aquatic pest control applicators and are authorized by the state or local government.

Applications to private water: Applications may be made to private waters that are still, such as ponds, lakes and drainage ditches where there is minimal or no outflow to public waters.

Application to public waters: Applications may be made to public waters such as ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds or for control of riparian and wetland weed species.

Consult local state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.

Recreational Use of Water in Treatment Area: There are no restrictions on the use of water in the treatment area for recreational purposes, including swimming and fishing.

Livestock Use of Water in/from Treatment Area: There are no restrictions on livestock consumption of water from the treatment area.

Precautions for Potable Water Intakes: Do not apply this product directly to water within one-half mile upstream of an active potable water intake in flowing water (i.e., river, stream, etc.) or within one-half mile of an active potable water intake in a standing body of water such as lake, pond or reservoir. To make aquatic applications around and within one-half mile of active potable water intakes, the water intake must be turned off during application and for a minimum of 48 hours after the application. These aquatic applications may be made only in the cases where there are alternative water sources or holding ponds, which would permit the turning off of an active potable water intake for a minimum period of 48 hours after the applications. Note: Existing potable water intakes which are no longer in use, such as those replaced by connections to wells or a municipal water system, are not considered to be active potable water intakes. This restriction does not apply to intermittent, inadvertent over spray of water in terrestrial use sites.

APPLICATION TO WATERS USED FOR IRRIGATION

The use of treated waters on irrigated crops within 120 days of treatment is prohibited.

Seasonal Irrigation Water: This product may be applied during the off-season to surface waters that are used for irrigation on a seasonable basis, provided that there is a minimum of 120 days between product application and the first use of treated water for irrigation purposes or until product residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less.

Irrigation Canals/Ditches: Do not apply this product to irrigation canals/ditches unless the 120-day restriction on irrigation water usage can be observed or product residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less. Do not apply this product to dry irrigation canals/ditches.

Quiescent or Slow Moving Waters: In lakes and reservoirs DO NOT apply this product within one (1) mile of an active irrigation water intake during the irrigation season. Applications less than one (1) mile from an active irrigation water intake may be made during the off-season, provided that the irrigation intake will remain active for a minimum 120 days after application or until product residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less.

Moving Water: Do not apply within one-half mile downstream of an active irrigation water intake. When making applications upstream from an active irrigation water intake, the intake must be turned off for a period of time sufficient to allow the upstream portion of treated water to completely flow past the irrigation intake before use can resume. Shut off time will be determined by the speed of water flow and the distance and length of water treated upstream from the intake. Consult local, state and/or federal authorities before making any applications upstream from an active irrigation water intake.

Use Sites: This product is an aqueous solution to be mixed with water and a surfactant and applied as a spray solution to control floating and emergent undesirable vegetation (see AQUATIC WEEDS CONTROLLED section and the ADDITIONAL WEEDS CONTROLLED section) in or near bodies of water which may be flowing, non-flowing, or transient. This product may be applied to specified aquatic sites that include lakes, rivers, streams, ponds, seeps, drainage ditches, canals, reservoirs, swamps, bogs, marshes, estuaries, bays, brackish water, transitional areas between terrestrial and aquatic sites and seasonal wet areas. See AQUATIC USE section of this label for precautions, restrictions, and instructions on aquatic uses.

Read and observe the following directions if aquatic sites are present in terrestrial non-crop areas and are part of the intended treatment area:

Herbicidal Activity: This product will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species with some residual control of undesirable species that germinate above the waterline. This product is readily absorbed through emergent leaves and stems and is translocated rapidly throughout the plant, with accumulation in the meristematic regions. Treated plants stop growing soon after spray application. Chlorosis appears first in the newest leaves, and necrosis spreads from this point. In perennials, the herbicide is translocated into, and kills, underground or submerged storage organs, which prevents regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species until two or more weeks after application. Complete kill of plants may not occur for several weeks. Performance of this product may be reduced if rainfall occurs within 2 hours of application. This product does not control plants which are completely submerged or have a majority of their foliage under water.

Application Methods: This product must be applied to the emergent foliage of the target vegetation and has little to no activity on submerged aquatic vegetation. Product concentrations resulting from direct application to water are not expected to be of sufficient concentration or duration to provide control of target vegetation. Application should be made in such a way as to maximize spray interception by the target vegetation while minimizing the amount of over spray that enters the water. For maximum activity, weeds should be growing vigorously at the time of application and the spray solution should include a surfactant (See ADJUVANTS section for specific recommendations). This product may be selectively applied by using low-volume directed application techniques or may be broadcast-applied by using ground equipment, watercraft or by helicopter. In addition, this product may also be used for cut stump, cut stem and frill and girdle treatments within aquatic sites (see AERIAL APPLICATIONS and GROUND APPLICATIONS sections for additional details).

This product should be applied with surface or helicopter application equipment in a minimum of 5 gallons of water per acre. When applying by helicopter, follow directions under the AERIAL APPLICATIONS section of this label; otherwise refer to section on GROUND APPLICATIONS when using surface equipment.

Applications made to moving bodies of water should be made while travelling upstream to prevent concentration of this herbicide in water. Do not apply to bodies of water or portions of bodies of water where emergent and/or floating weeds do not exist.

When application is to be made to target vegetation that covers a large percentage of the surface area of impounded water, treating the area in strips may avoid oxygen depletion due to decaying vegetation. Oxygen depletion may result in the suffocation of some sensitive aquatic organisms. Do not treat more than one half of the surface area of the water in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow aquatic organisms to move into untreated areas.

Apply this product at 1 to 3 pints per acre depending on species present and weed density. Do not exceed the maximum label rate of 3 pints per acre (1.5 lb. ai/A) per year. Use the higher labeled rates for heavy weed pressure. Consult the AQUATIC WEEDS CONTROLLED section and the ADDITIONAL WEEDS CONTROLLED section of this label for specific rates.

This product may be applied as a draw down treatment in areas described above. Apply this product to weeds after water has been drained and allow 14 days before reintroduction of water.

AQUATIC SPECIES CONTROLLED

This product will control the following target species as specified in the INSTRUCTIONS section of the table. Rates are expressed in terms of product volume for broadcast applications and as a percent solution for directed applications including spot treatments. For percent solution applications, DO NOT apply more than the equivalent of 1.5 quarts of this product per acre.

COMMON NAME	SCIENTIFIC NAME	INSTRUCTIONS
Floating Species		·
*Duckweed	Lemna minor	1 – 1 ½ pints/acre (1% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
*Duckweed, Giant	Spirodela polyriza	1 – 1 ½ pints/are (1% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
*Frogbit	Limnobium spongia	$\frac{1}{2}$ – 1 pint/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
*Spatterdock	Nuphar luteum	Apply a tank-mix of 1-2 pints/acre of this product + 4-6 pints/acre glyphosate (0.5% this product + 1.5% glyphosate) in 100 GPA water for best control. Ensure 100% coverage of actively growing, emergent foliage.
*Water Hyacinth	Eichhornia crassipes	$\frac{1}{2}$ – 1 pint/acre (0.5% solution) applied in 100 GPA water to actively growing foliage.
*Water Lettuce	Pistia stratiotes	½ − 1 pint/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
Emerged Species		

	COMMON NAME	SCIENTIFIC NAME	INSTRUCTIONS
	<u>*</u> Alligatorweed	Alternanthera philoxeroides	½ – 2 pints/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing emergent foliage. Tank-mix with glyphosate is NOT recommended, and may reduce alligatorweed control, requiring higher product rates.
	*Arrowhead, Duck-potato	<i>Sagittaria</i> spp.	1/2 – 1 pint/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
	<u>*</u> Bacopa, lemon	Bacopa spp.	½ − 1 pint/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
	*Parrot feather	Myriophyllum aquaticum	Must be foliage above water for sufficient product uptake. Apply 1 – 2 pints to actively growing emergent foliage.
	<u>*</u> Pennywort	Hydrocotyle spp.	½ – 1 pint/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
	*Pickerelweed	Pontederia cordata	1 – 1½ pints/acre (1% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
-	*Taro, wild; Dasheen; Elephant's Ear; Coco Yam	Colocasia esculentum	2 – 3 pints/acre (1.5% solution) applied in 100 GPA with a high quality 'sticker' adjuvant. Ensure good coverage of actively growing, emergent foliage.
	<u>*</u> Water lily	Nymphaea odorata	1 – 1 ½ pints/acre (1% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
	*Water primrose	Ludwigia uruguayensis	2 – 3 pints/acre (1.5% solution), ensure 100% coverage of actively growing, emergent foliage. Tank-mix with glyphosate is NOT recommended and may reduce water primrose control.
	Terrestrial/Marginal		
	*Soda Apple, aquatic, Nightshade	Solanum tampicense	1 pint/acre applied to foliage
	<u>*</u> Bamboo, Japanese	Phyllostachys spp.	1 ½ – 2 pints/acre applied to the foliage when plant is actively growing. Before setting seed head. More foliage will result in greater herbicide uptake, resulting in greater root kill.

COMMON NAME	SCIENTIFIC NAME	INSTRUCTIONS
Brazilian Pepper; Christmasberry	Schinus terebinthifolius	1 – 2 pints/acre applied to foliage.
Cattail	Typha spp.	1 – 2 pints (1% solution) applied to actively growing, green foliage after full leaf elongation. Lower rates will control cattail in the north; higher rates are needed in the south.
Chinese Tallow Tree	Sapium sebiferum	8 – 12 ounces applied to foliage.
Cogongrass	Imperata cylindrica	Burn foliage, till area, that Fall spray 1 quart/acre this product + MSO applied to new growth.
Cordgrass, prairie	Spartina spp.	2 – 3 pints applied to actively growing foliage.
Cutgrass	Zizaniopsis miliacea	2 - 3 pints applied to actively growing foliage.
*Elephant Grass; Napier Grass	Pennisetum purpureum	1½ pints/acre applied to actively growing foliage.
*Flowering rush	Butumu typla	1 – 1½ pints applied to actively growing foliage.
Giant Reed, Wild Cane	Arundo donax	2 - 3 pints/acre applied in spring to actively growing foliage.
*Golden Bamboo	Phyllostachys aurea	1½ – 2 pints/acre applied to the foliage when plant is actively growing before plants set seed heads. More foliage will result in greater herbicide uptake, resulting in greater root kill.
Junglerice	Echinochloa colonum	$1\frac{1}{2}$ – 2 pints applied to actively growing foliage.
Knapweeds	Centaurea species	Russian Knapweed – 1 to 1½ pints + 1 quart/acre MSO fall applied after senescence begins.
Knotweed, Japanese (see Fallopia japonica)	Polygonum cuspidatum	$1\frac{1}{2}$ – 2 pints/acre applied postemergence to actively growing foliage.
Melaleuca; Paperbark Tree	Melaleuca quinquenervia	For established stands, apply 2 pints/acre of this product + 6 pints/acre glyphosate + spray adjuvant. For best results, use 4 quarts/A methylated seed oil as an adjuvant. For ground foliar application, uniformly apply to ensure 100% coverage. For broadcast foliar control, apply aerially in a minimum of two passes at 10 gallons/acre applied cross treatment. For spot treatment, use a 25% solution of this product + 25% solution of glyphosate + 1.25% MSO in water applied as a frill or stump treatments.

COMMON NAME	SCIENTIFIC NAME	INSTRUCTIONS
*Nutgrass; Kili'p'opu	Cyperus rotundus	1 pint of this product + 1 quart/acre MSO applied early postemergence.
*Nutsedge	Cyperus spp.	1 – 1½ pints postemergence to foliage or pre-emergence incorporated, non-incorporated pre-emergence applications will not control.
Phragmites; Common Reed	Phragmites australis	1½ – 2 pints/acre applied to actively growing, green foliage after full leaf elongation, ensure 100% coverage. If stand has a substantial amount of old stem tissue, mow or burn, allow to regrow to approximately 5' tall before treatment. Lower rates will control phragmites in the north; higher rates are needed in the south.
*Poison Hemlock	Conium maculatum	1 pint of this product + 1 quart/acre MSO applied pre-emergence to early postemergence to rosette, prior to flowering.
Purple Loosestrife	Lythrum salicaria	½ pint/acre applied to actively growing foliage.
Reed canarygrass	Phalaris arundinacea	$1\frac{1}{2}$ – 2 pints/acre applied to actively growing foliage.
Rose, swamp	Rosa palustris	1 - 1½ pints/acre applied to actively growing foliage
Russian-Olive	Elaeagnus angustifolia	1 – 2 pints/acre or a 1% solution, applied to foliage.
Saltcedar, Tamarisk	Tamarix species	Aerial apply 1 quart of this product + 0.25% v/v NIS applied to actively growing foliage during flowering. For spot spraying, use 1% solution of this product + 0.25% v/v NIS and spray to wet foliage. After application, wait at least two years before disturbing treated saltcedar. Earlier disturbance can reduce overall control.
Smartweed	Polygonum spp:	1 pint/acre applied early postemergence.
Sumac	Rhus spp.	1 – 1½ pints/acre applied to foliage.
Swamp Morning Glory; Water Spinach; Kangkong	Ipomoea aquatic	1/2 – 1 pint/acre of this product + 1 quart/acre MSO applied early postemergence.
Torpedo Grass	Panicum repens	2 pints/acre (1 – 1.5% solution), ensure good coverage to actively growing foliage.
*White Top; Hoary Cress	Cardaria draba	1/2 - 1 pint/acre of this product applied to actively growing foliage, ensure good coverage.

COMMON NAME	SCIENTIFIC NAME	INSTRUCTIONS
Willow	Salix spp.	1 – 1 ½ pints/acre of this product applied to actively growing foliage, ensure good coverage.

*Not approved for use in California.

TANK MIXES

This product may be tank mixed with other aquatic use herbicides for the control of emergent and floating aquatic vegetation provided that the tank mix herbicide label does not prohibit such mixing. Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label instructions and restrictions when making an application involving tank mixes.

TANK MIXES FOR WEED AND BRUSH CONTROL

This product may be tank mixed with other registered herbicide products to provide control of species tolerant to this product.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank mixes. Tank mixing with 2,4-D or products which contain 2,4-D could result in reduced performance of this product when 2,4-D is used at high rates.

INVERT EMULSIONS:

This product can be applied as an invert emulsion. Consult the invert chemical label for proper mixing directions.

FOR CONTROL OF UNDESIRABLE WEEDS UNDER PAVED SURFACES

This product can be used under asphalt, pond liners and other paved areas ONLY in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents encroachment of roots of desirable plants.

This product should be used only where the area to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, they should be removed by scalping with a grader blade to a depth sufficient to ensure their complete removal.

IMPORTANT: Paving should follow applications of this product as soon as possible. DO NOT apply where the chemical may contact the root of desirable trees or other plants.

The product is not recommended for use under pavement on residential properties such as driveways or parking lots, nor is it recommended for use in recreational areas such as under bike or jogging paths, golf cart paths, or tennis courts, or where the landscape plantings could be anticipated.

Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities or so-called drip line.

APPLICATION DIRECTIONS FOR PAVED SURFACES:

Applications should be made to the soil surface only when final grade is established. Do not move soil following application of this product. Apply this product in sufficient water (at least 100 gals. per acre) to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. Add this product at a rate of 3 pints per acre (1.1 fluid ounces per 1000 square feet) to clean water in the spray tank during the filling operation. Agitate before spraying.

If the soil is not moist prior to treatment, incorporation of this product is needed for herbicide activation. This product can be incorporated into the soil to a depth of 4 to 6 inches using a

rototiller or disc. Rainfall or irrigation of 1 inch will also provide uniform incorporation. Do not allow treated soil to wash or move into untreated areas.

FOR CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED DORMANT BERMUDAGRASS AND BAHIAGRASS

This product may be used on unimproved dormant bermudagrass and bahiagrass turf on roadsides and utility rights-of-way. The application of this product on established common and coastal bermudagrass and bahiagrass provides control of labeled broadleaf and grass weeds. Competition from these weeds is eliminated, releasing the bermudagrass and bahiagrass. Treatment of bermudagrass with this product results in a compacted growth habit and seedhead inhibition.

Uniformly apply with properly calibrated ground equipment using at least 10 gallons of water per acre with a spray pressure 20 to 50 psi.

IMPORTANT: Temporary yellowing of grass may occur when treatment is made after growth commences. DO NOT add surfactant in excess of the specified rate (1 fluid ounce per 25 gallons of spray solution). DO NOT APPLY to grass during its first growing season. DO NOT APPLY to grass that is under stress from drought, disease, insects, or other causes.

DOSAGE RATES AND TIMING:

Bermudagrass – Apply this product at 3 to 6 fluid ounces per acre when the bermudagrass is dormant. Apply this product at 3 to 4 fluid ounces per acre after the bermudagrass has reached full green-up. Applications made during green-up will delay green-up. Include a surfactant in the spray solution (see IMPORTANT statement above).

For additional pre-emergence control of annual grasses and small seeded broadleaf weeds, add Endurance® or Pendulum® herbicide at the rate of 3.3 to 6.6 pounds per acre. Consult the Endurance® or Pendulum® label for weeds controlled and for other use directions and precautions.

For control of johnsongrass in bermudagrass turf, apply this product at 4 fluid ounces per acre plus a registered herbicide with addition of an approved surfactant. For additional control of broadleaves and vines, a registered herbicide may be added to the above mix at the rate of 1 to 2 pints per acre. Observe all precautions and restrictions of the labels.

Bahiagrass – Apply this product at 2 to 4 fluid ounces per acre when the bahiagrass is dormant or after the grass has initiated green-up but has not exceeded 25% green-up. Include in the spray solution a surfactant (See Adjuvant section for specific recommendations on surfactants).

WEEDS CONTROLLED

Bedstraw (Galium spp.)
Bishopweed (Ptilimnium capillaceum)
Buttercup (Ranunculus parviflorus)
Carolina geranium (Geranium carolinianum)
Fescue (Festuca spp.)
Foxtail (Setaria spp.)

Little barley (Hordeum pusillum)
Seedling Johnsongrass (Sorghum halepense)
Wild carrot (Daucus carota)
White clover (Trifolium repens)
Yellow woodsorrel (Oxalis stricta)

GRASS GROWTH AND SEEDHEAD SUPPRESSION

This product may be used to suppress growth and seedhead development of certain turfgrasses in unimproved areas. When applied to desirable turf, this product may result in temporary turf damage, death, and/or discoloration. Effects to the desirable turf may vary with environmental conditions. For optimum performance, application should be made prior to culm elongation. Applications may be made before or after mowing. If applied prior to mowing, allow at least three days of active growth before mowing. If following a mowing, allow sufficient time for the grasses to recover before applying this product or injury may be amplified.

DO NOT APPLY to turf under stress (drought, cold, insect damaged, etc) or severe injury or death may occur.

Bermudagrass – Apply this product at 3 to 4 fluid ounces per acre from early green-up to prior to seedhead initiation. DO NOT add a surfactant for this application.

Cool Season Unimproved Turf – Apply this product at 1 fluid ounce per acre plus 0.25% nonionic surfactant. For increased suppression, this product may be tank-mixed with other products suitable for this use.

Tank-mixes may increase injury to desired turf. Consult each product label for recommended turf species and other use directions and precautions. Tank mixes with 2,4-D or products containing 2,4-D at higher rates may decrease the effectiveness of this product.

TOTAL VEGETATION CONTROL WHERE BAREGROUND IS DESIRED

This product is an effective herbicide for preemergence or postemergence control of many annual and perennial broadleaf and grass weeds where bare ground is desired. This product is particularly effective on hard-to-control perennial grasses. This product at 0.75 to 3 pints per acre can be used alone or in tank mix with Diuron, Simazine, Vanquish[®], or other registered herbicides labeled for this use. The degree and duration of control are dependent on the rate of this product used, tank-mix partner, the volume of carrier, soil texture, rainfall and other conditions.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes.

Applications of these products may be made anytime of the year. Use equipment calibrated to deliver desired gallons per acre spray volume and uniformly distribute the spray pattern over the treated area.

Postemergence Applications: Always use a spray adjuvant (See ADJUVANTS section of this label) when making a postemergence application. For optimum performance on tough to control annual grasses, apply 100 gallons per acre or less. For spot treatments, this product may be used as a follow-up treatment to control escapes or weed encroachment in a bare ground situation. To prepare the spray solution, thoroughly mix in each gallon of water 0.5 to 5% of this product plus an adjuvant.

FOR SPOT TREATMENT WEED CONTROL IN GRASS PASTURE AND RANGELAND

For the control of undesirable vegetation in grass pasture and rangeland this product may be applied as a spot treatment at a rate of 1 to 24 fluid ounces of product per treated acre using any of the described ground application methods. Spot applications to grass pasture and rangeland may not exceed more than one tenth of the area to be grazed or cut for hay. See appropriate sections of this label for specific use directions for the application method and vegetation control desired. DO NOT apply more than 48 fluid ounces per acre per year.

Grazing and haying restrictions: There are no grazing restrictions following application of this product. DO NOT cut forage grass for hay for seven days after application of this product.

GUIDELINES FOR RANGELAND USE

This product may be applied to rangeland for the control of undesirable vegetation in order to achieve one or more of the following vegetation management objectives:

- 1. The control of undesirable (non-native, invasive and noxious) plant species.
- 2. The control of undesirable vegetation in order to aid in the establishment of desirable rangeland plant species.
- 3. The control of undesirable vegetation in order to aid in the establishment of desirable rangeland vegetation following a fire.
- 4. The control of undesirable vegetation for purposes of wildlife fuel reduction.

- 5. The release of existing desirable rangeland plant communities from the competitive pressure of undesirable plant species.
- 6. The control of undesirable vegetation for purposes of wildlife habitat improvement.

To ensure the protection of threatened and endangered plants when applying this product to rangeland:

- 1. Federal agencies must follow NEPA regulations to ensure protection of threatened and endangered plants.
- 2. State agencies must work with the Fish and Wildlife Service or the Service's designated state conservation agency to ensure protection of threatened and endangered plants.
- 3. Other organizations or individuals must operate under a Habitat Conservation Plan if threatened or endangered plants are known to be present on the land to be treated.

ROTATIONAL CROP INSTRUCTIONS

Rotational crops may be planted twelve months after applying this product at the specified pasture and rangeland rate. Following twelve months after an application of this product, and before planting any crop, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted in the previously treated area in the grass pasture/rangeland and grown to maturity. The test strip should include low areas and knolls, and include variations in soil type and pH within the treated area. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year.

Use of this product in accordance with label directions is expected to result in normal growth or rotational crops in most situations; however, various environmental and agronomic factors make it possible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

ADDITIONAL WEEDS CONTROLLED

In terrestrial sites, this product will provide preemergence or postemergence control with residual control of the following target vegetation species at the rates listed. Residual control refers to control of newly germinating seedlings in both annuals and perennials. In general, annual weeds may be controlled by preemergence or postemergence applications of this product. For established biennials and perennials postemergence applications of this product are recommended.

The rates shown below pertain to broadcast applications and indicate the relative sensitivity of these weeds. The relative sensitivity should be referenced when preparing low volume spray solutions (see Low Volume section of Ground Applications); low volume applications may provide control of the target species with less product per acre than is shown for the broadcast treatments. This product should be used only in accordance with the directions on this label.

The relative sensitivity of the species listed below can also be used to determine the relative risk of causing non-target plant injury if any of the below listed species are considered to be desirable within the area to be treated.

Resistant Biotypes: Naturally occurring biotypes (a plant within a given species that has a slightly different, but distinct, genetic makeup from other plants of the same species) of some weeds listed on this label may not be effectively controlled. If naturally occurring resistant biotypes are present in an area, this product should be tank-mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

GRASSES

COMMON NAME	SPECIES	GROWTH HABIT ²
	Apply 1.0 – 1.5 pints per acre	1 · · · · · · · · · · · · · · · · · · ·
Annual bluegrass	(Poa annua)	A
Broadleaf signalgrass	(Brachiaria platyphylla)	A
Canada bluegrass	(Poa compressa)	P
Downy brome	(Bromus tectorum)	A
Fescue	(Festuca spp.)	A/P
Foxtail	(Setaria spp.)	A
Italian ryegrass	(Lolium multiflorum)	A
Johnsongrass	(Sorghum halepense)	Р
Kentucky bluegrass	(Poa pratensis)	Р
Lovegrass	(Eragrostis spp.)	A/P
*Napier grass	(Pennisetum purpureum)	Р
Orchardgrass	(Dactylis glomerata)	P
Paragrass	(Brachiaria mutica)	P .
Quackgrass	(Agropyron repens)	P
Sandbur	(Cenchrus spp.)	A
Sand dropseed	(Sporobulus cryptandrus)	Р
Smooth brome	(Bromus inermis)	P
Vaseygrass	(Paspalum urvillei)	P
Wild oats	(Avena fatua)	A
Witchgrass	(Panicum capillare)	A
	Apply 1.5 – 2.0 pints per acre	1
Barnyardgrass	(Echinochloa crus-gali)	Α
Beardgrass	(Andropogon spp.)	Р
Bluegrass, Annual	(Poa annua)	A
*Bulrush	(Scirpus validus)	A
Cheat	(Bromus secalinus)	Α
Crabgrass	(Digitaria spp.)	A
Crowfootgrass	(Dactyloctenium aegyptium)	Α .
Fall panicum	(Panicum dichotomiflorum)	A
Giant Reed	(Arundo donax)	A
Goosegrass	(Eleusine indica)	A
Itchgrass	(Rottboellia exaltata)	A
Junglerice	(Echinochloa colonum)	A

Lovegrass (Eragrostis spp.) A *Maidencane (Panicum hemitomon) A Panicum, Browntop (Panicum tasciculatum) A Panicum, Texas (Panicum texanum) A Prairie threeawn (Aristida oligantha) P Reed canarygrass (Phalaris arundinacea) P Sandbur, Field (Cenchrus incertus) A Signalgrass (Brachiaria platyphylla) A Torpedograss (Panicum repens) P Wild barley (Hordeum spp.) A Wooly Cupgrass (Eriochloa villosa) A Apply 2.0 – 3.0 pints per acre Bahiagrass (Paspalum notatum) P Bermudagrass³ (Cynodon dactylon) P Big bluestem (Andropogon gerardil) P Cattail (Typha spp.) P Cattail (Typha spp.) P Caltail (Paspalum dilatatum) P Feathertop (Pennisetum villosum) P Guineagrass (Panicum maximum) P Pragmites (Phragmites austalis) P Prairie cordgrass (Spartina pectinata) P Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Wirestem muhly (Muhlenbergia frondosa) P	COMMON NAME	SPECIES	GROWTH HABIT ²
Panicum, Browntop (Panicum tasciculatum) A Prairie threeawn (Aristida oligantha) Pede canarygrass (Phalaris arundinacea) Pede canarygrass (Phalaris arundinacea) Pede canarygrass (Phalaris arundinacea) Pede canarygrass (Phalaris arundinacea) Pede canarygrass (Brachiaria platyphylla) A Torpedograss (Panicum repens) Pede canarygrass (Panicum repens) Pede canarygrass (Panicum spp.) A Wooly Cupgrass (Eriochloa villosa) Apply 2.0 – 3.0 pints per acret Bahiagrass (Paspalum notatum) Pede canarygrass (Cynodon dactylon) Pede cattail (Typha spp.) Pede cattail (Typha spp.) Pede cattail (Typha spp.) Pede cattail (Panicum dilatatum) Pede cattail (Panicum dilatatum) Pede cattail (Panicum maximum) Pede cattail (Pennisetum villosum) Pede cattail (Pennisetum villosum) Peragmites (Panicum maximum) Peragmites (Panicum maximum) Peragmites (Spartina pectinata) Peraire cordgrass (Distichlis stricta) Ped cattail (Sporobolus cryptandrus) Pedaltgrass³ (Distichlis stricta) Pedaltgrass* Pedaltgrass³ (Distichlis stricta) Pedaltgrass* Pedaltg	Lovegrass	(Eragrostis spp.)	A
Panicum, Texas (Panicum texanum) A Prairie threeawn (Aristida oligantha) P Reed canarygrass (Phalaris arundinacea) P Sandbur, Field (Cenchrus incertus) A Signalgrass (Brachiaria platyphylla) A Torpedograss (Panicum repens) P Wild barley (Hordeum spp.) A Wooly Cupgrass (Eriochloa viilosa) A Apply 2.0 – 3.0 pints per acre¹ Bahiagrass (Paspalum notatum) P Bermudagrass³ (Cynodon dactylon) P Cattail (Typha spp.) P Cattail (Typha spp.) P Cagongrass (Paspalum dilatatum) P Feathertop (Pennisetum viilosum) P Guineagrass (Panicum maximum) P Phragmites (Panicum maximum) P Phragmites (Phragmites austalis) P Prairie cordgrass (Spartina pectinata) P Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	*Maidencane	(Panicum hemitomon)	Α
Prairie threeawn (Aristida oligantha) P Reed canarygrass (Phalaris arundinacea) P Sandbur, Field (Cenchrus incertus) A Signalgrass (Brachiaria platyphylla) A Torpedograss (Panicum repens) P Wild barley (Hordeum spp.) A Wooly Cupgrass (Eriochloa villosa) A Apply 2.0 – 3.0 pints per acre Bahiagrass (Paspalum notatum) P Bermudagrass³ (Cynodon dactylon) P Big bluestem (Andropogon gerardil) P Cattail (Typha spp.) P Cogongrass (Imperata cylindrical) P Dallisgrass (Paspalum dilatatum) P Feathertop (Pennisetum villosum) P Guineagrass (Panicum maximum) P Phragmites (Phragmites austalis) P Prairie cordgrass (Spartina pectinata) P Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Panicum, Browntop	(Panicum tasciculatum)	A
Reed canarygrass (Phalaris arundinacea) P Sandbur, Field (Cenchrus incertus) A Signalgrass (Brachiaria platyphylla) A Torpedograss (Panicum repens) P Wild barley (Hordeum spp.) A Wooly Cupgrass (Eriochloa villosa) A Apply 2.0 – 3.0 pints per acre Bahiagrass (Paspalum notatum) P Bermudagrass³ (Cynodon dactylon) P Big bluestem (Andropogon gerardil) P Cattail (Typha spp.) P Cogongrass (Imperata cylindrical) P Dallisgrass (Paspalum dilatatum) P Feathertop (Pennisetum villosum) P Guineagrass (Panicum maximum) P Phragmites (Phragmites austalis) P Prairie cordgrass (Spartina pectinata) P Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Panicum, Texas	(Panicum texanum)	Α
Sandbur, Field (Cenchrus incertus) A Signalgrass (Brachiaria platyphylla) A Torpedograss (Panicum repens) P Wild barley (Hordeum spp.) A Wooly Cupgrass (Eriochloa villosa) A Apply 2.0 – 3.0 pints per acre Bahiagrass (Paspalum notatum) P Bermudagrass³ (Cynodon dactylon) P Gattail (Typha spp.) P Cogongrass (Imperata cylindrical) P Dallisgrass (Paspalum dilatatum) P Feathertop (Pennisetum villosum) P Guineagrass (Panicum maximum) P Phragmites (Phragmites austalis) P Prairie cordgrass (Spartina pectinata) P Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Prairie threeawn	(Aristida oligantha)	P
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Prairie cordgrass (Spartina pectinata) P Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Guineagrass	(Panicum maximum)	P
Saltgrass³ (Distichlis stricta) P Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Phragmites	(Phragmites austalis)	P
Sand dropseed (Sporobolus cryptandrus) P Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Prairie cordgrass	(Spartina pectinata)	Ρ .
Sprangletop (Leptochloa spp.) A Timothy (Phleum pretense) P	Saltgrass ³	(Distichlis stricta)	P
Timothy (Phleum pretense) P	Sand dropseed	(Sporobolus cryptandrus)	P
	Sprangletop	(Leptochloa spp.)	A
Wirestern muhly (Muhlenbergia frondosa) P	Timothy	(Phleum pretense)	P
	Wirestem muhly	(Muhlenbergia frondosa)	P

BROADLEAF WEEDS

COMMON NAME	SPECIES	GROWTH HABIT ²
	Apply 1.0 – 1.5 pints per acre	
Alligatorweed	(Alternanthera philoxeroides)	A/P
Burdock	(Arctium spp.)	В
Goosegrass	(Eleusine indica)	A
Camphorweed	(Heterotheca subaxillaris)	P

COMMON NAME	SPECIES	GROWTH HABIT ²
Carolina geranium	(Geranium carolinianum)	Α
Clover	(Trifolium spp.)	A/P
Common chickweed	(Stellaria media)	A
Common ragweed	(Ambrosia artemisiifolia)	A
Dandelion	(Taraxacum officinale)	P
Dog fennel	(Eupatorium capillifolium)	A
Filaree	(Erodium spp.)	Α
Fleabane	(Erigeron spp.)	A
Hoary vervain	(Verbena stricta)	Р
Horseweed	(Conyza canadensis)	A
Indian mustard	(Brassica juncea)	Α
Kochia	(Kochia scoparia)	Α
Lambsquarters	(Chenopodium album)	Α΄.
*Lespedeza	(Lespedeza spp.)	P
Miners lettuce	(Montia perfoliata)	A
Mullein	(Verbascum spp.)	В
Nettleleaf goosefoot	(Chenopodium murale)	A
Oxeye daisy	(Chrysanthemum leucanthemum)	P
Pepperweed	(Lepidium spp.)	A
Pigweed	(Amaranthus spp.)	Α
Plantain	(Plantago spp.)	P
Puncturevine	(Tribulus terrestris)	Α .
Russian thistle	(Salsola kali)	. A
Smartweed	(Polygonum spp.)	A/P
Sorrell	(Rumax spp.)	P
Sunflower	(Helianthus spp.)	A
Sweet clover	(Melilotus spp.)	A/B
Tansymustard	(Descurainia pinnata)	A
Western ragweed	(Ambrosia psilostachya)	P
Wild carrot	(Daucus carota)	В
Wild lettuce	(Lactuca spp.)	A/B
Wild parsnip	(Pastinaca sativa)	В
Wild turnip	(Brassica campestris)	В
Woollyleaf bursage	(Franseria tomentosa)	P

COMMON NAME	SPECIES	GROWTH HABIT ²
Yellow woodsorrel	(Oxalis stricta)	P
	Apply 1.5 – 2.0 pints per acre	1
Broom snakeweed ⁴	(Gutierrezia sarothrae)	P
Bull thistle	(Cirsium vulgare)	В
Burclover	(Medicago spp.)	A
Chickweed, Mouseear	(Cerastium vulgatum)	A
Clover, Hop	(Trifolium procumbens)	A
Cocklebur	(Xanthium strumarium)	A
Cudweed	(Gnaphalium spp.)	A
Desert Camelthorn	(Alhagi pseudalhagi)	Р
Diffuse knapweed	(Centaurea diffusa)	A
Dock	(Rumex spp.)	P
Fiddleneck	(Amsinckia intermedia)	A
Goldenrod	(Solidago spp.)	Р .
Henbit	(Lamium aplexicaule)	A
Knotweed, prostrate	(Polygonum aviculare)	A/P
Pokeweed	(Phytolacca americana)	Р
Purple loosestrife	(Lythrum salicaria)	P
Purslane	(Portulaca spp.)	А
Pusley, Florida	(Richardia scabra)	A
Rocket, London	(Sisymbrium irio)	A
Rush skeletonweed⁴	(Chondrilla juncea)	В
Saltbrush	(Atriplex spp.)	, A
Shepherd's-purse	(Capsella bursa-pastoris)	Ά
Spurge, Annual	(Euphorbia spp.)	A
Stinging nettle⁴	(Urtica dioica)	P
Velvetleaf	(Abutilon theophrasti)	A
Yellow starthistle	(Centaurea solstitialis)	A
	Apply 2.0 – 3.0 pints per acre	
Arrowweed	(Pluchea sericea)	Α
Cánada thistle	(Cirsium arvanse)	Р
Giant ragweed	(Ambrosia trifida)	A
Grey rabbitbrush	(Chrysothamnus nauseosus)	P
Little mallow	(Malva parviflora)	В

COMMON NAME	SPECIES	GROWTH HABIT ²
Milkweed	(Asclepias spp.)	Р
Primrose	(Oenothera kunthiana)	Р
Russian knapweed	(Centaurea repens)	Р
Silverleaf nightshade	(Solanum eleagnifolium)	P
Sowthistle	(Sonchus spp.)	A
Texas thistle	(Cirsium texanum)	P

VINES AND BRAMBLES

COMMON NAME	SPECIES	GROWTH HABIT ²
·	Apply 0.5 pint per acre	
Field bindweed	(Convolvulus arvensis)	P
Hedge bindweed	(Calystegia sequium	A
	Apply 1.0 – 1.5 pints per acre	
Wild buckwheat	(Polygonum convolvulus)	P
	Apply 1.5 – 2.0 pints per acre ¹	
Greenbriar	(Smilax spp.)	Р
Honeysuckle	(Lonicera spp.)	Р .
Morningglory	(Ipomoea spp.)	A/P
Poison ivy	(Rhus radicans)	P
Redvine	(Brunnichis cirrhosa)	P
Wild rose	(Rosa spp.)	Р
Including: Multiflora rose	(Rosa multiflora)	
McCartney rose	(Rosa bracteata)	Р
· · · · · · · · · · · · · · · · · · ·	Apply 2.0 – 3.0 pints per acre ¹	
Blackberry	(Rubus spp.)	Р
Dewberry	(Rubus spp.)	P
*Kudzu ³	(Pueraria lobata)	Р
Trumpetcreeper	(Campsis radicans)	P
Virginia creeper	(Parthenocissus quinquefolia)	P
Wild grape	(Vitis spp.)	Р

BRUSH SPECIES

COMMON NAME	SPECIES	GROWTH HABIT ²
	Apply 2.0 – 3.0 pints per	acre ¹
American beech	(Fagus grandifolia)	Р

COMMON NAME	SPECIES	GROWTH HABIT ²
Ash	(Fraxinius spp.)	P
Bald cypress	(Taxodium distichum)	Р
Bigleaf maple	(Acer macrophylum)	Р
Black locust ⁵	(Robinia pseudoacacia)	Р
Blackgum	(Nyssa sylvatica)	Р
Boxelder	(Acer negundo)	P
Brazilian peppertree	(Schinus terebinthifolius)	P
Cherry	(Prunus spp.)	P
Chinaberry	(Melia azadarach)	P
Chinese tallowtree	(Sapium sebiferum)	Р
Dogwood	(Cornus spp.)	P
Elm⁵	(Ulmus spp.)	Р
Hawthorn	(Cartaegus spp.)	Р
Hickory	(Carya spp.)	Р
Honeylocust⁵	(Gleditsia triacanthos)	P
Maple	(Acer spp.)	Р
Melaleuca	(Melaleuca quiquenervia)	Р
Mulberry	(Morus spp.)	Р
Oak	(Quercus spp.)	Р
Persimmon	(Diospyros virginiana)	Р
*Pine ⁵	(Pinus spp.)	P
Poplar	(Populus spp.)	P
Privet	(Ligustrum vulgare)	P
Red Alder	(Alnus rubra)	Р
Red Maple	(Acre rubrum)	Р
Rubber rabbitbrush	(Chrysothamnus nauseaosus)	P
Russian Olive	(Eleagnus angustifolia)	Р
Sassafras	(Sassafras albidum)	Р
Saltcedar	(Tamarix ramosissima)	Р
Sourwood	(Oxydendrum arboretum)	P
Sumac	(Rhus spp.)	P
Sweetgum	(Liquidambar styraciflua)	P
*Water willow	(Justica americana)	P
Willow	(Salix spp.)	P

COMMON NAME	SPECIES	GROWTH HABIT ²
Yellow poplar	(Liriodendron tulipifera)	Р

^{*}Not approved for use in California

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT store below 10°F.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

(Nonrefillable \leq 5 gallons): 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 $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY** before using this product. If terms are not acceptable, return the unopened product container at once.

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

<u>Warranty:</u> Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied

¹The higher rates should be used where heavy or well-established infestations occur.

²Growth Habit – A=Annual, B=Biennial, P=Perennial

³Use a minimum of 75 GPA – Control of established stands may require repeat applications

⁴For best results, early postemergence applications are required.

⁵Tank-mix with glyphosate or triclopyr.

⁶Tank-mix with glyphosate.

by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

<u>Terms of Sale:</u> The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

<u>Limitation of Liability:</u> To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Microfoil is a trademark of Rhone Poulenc Ag. Company.
Thru-Valve is a trademark of Waldrum Specialties.
Accord is a registered trademark of Monsanto Company
Oust is a registered trademark of E.I. DuPont de Nemours and Company.
Garlon is a trademark of Dow AgroSciences Company.
Pendulum is a registered trademark of BASF.
Endurance and Vanquish are registered trademarks of Syngenta Group Company.

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