



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

JUN 2 8 2010

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Mr. Jeffrey Birk BASF Corporation 26 Davis Dr Research Triangle Park, NC 27709-3528

Subject:

Clearcast Herbicide

EPA Registration Number 241-437 Application dated October 9, 2009 Label resubmission dated April 21, 2010

Increase in foliar rate, changes to restrictions of treated waters, etc.

Dear Mr. Birk:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1) Submit the following conditional data requirements to assess chronic risk:
 - a. Freshwater fish early life-cycle study (guideline 72-4)
 - b. Aquatic invertebrate life cycle study (guideline 72-4)
 - c. Estuarine early life-stage fish study (guideline 72-4)
 - d. Estuarine invertebrate life cycle study (guideline 72-4)
- 2) Add an appropriate EPA Establishment Number to the label.
- 3) Add appropriate Net Contents information to the label
- 4) Add "Causes moderate eye irritation" after "Harmful if absorbed through skin or inhaled" in the Precautionary Statements
- 5) Add an additional statement in the User Safety Recommendations section that states: "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."
- 6) Remove the repetitive statement "Do not contaminate water food or feed by storage or disposal" from the Pesticide Storage section.
- 7) Revise the heading "GENERAL INFORMATION" to "USE INFORMATION" or "PRODUCT INFORMATION"
- 8) Remove "GENERAL LIMITATIONS" on page 6
- 9) On page 9, revise "recommendations" to "directions"
- 10) On page 10, revise "should" to "must" in the Wind subsection
- 11) On page 10, revise "other than recommended" to "other than directed"

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Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,

James A. Tompkins Product Manager 25

Herbicide Branch

Registration Division (7505P)



For the control of vegetation in and around aquatic and noncropland sites including areas that may be grazed or cut for hay

Active Ingredient:

ammonium salt of imazamox 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid*

Cher Ingredients:

87.9%

Total:

Equivalent to 11.4% 2-[4.5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5- (methoxymethyl)-3-pyridinecarboxylic acid 1 gallon contains 1.0 pound of active ingredient as the free acid.

US Patent No. 5,334,576 EPA Reg. No. 241-437

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

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.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

ACCEPTED with COMMENTS in EPA Letter Dated

JUN 28 2010

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

241-437



BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils
- Shoes plus socks

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide may be hazardous to plants outside the treated area. DO NOT apply to water except as specified in this label. **DO NOT** contaminate water when disposing of equipment washwaters and rinsate.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application.

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.

Ensure spray drift to nontarget susceptible species does not occur.

DO NOT apply **Clearcast® herbicide** in any manner not specifically described in this label.

Observe all cautions and limitations on this label and on the labels of products used in combination with Clearcast.

DO NOT use Clearcast other than in accordance with the instructions set forth on this label. Keep containers closed to avoid spills and contamination.

STORAGE AND DISPOSAL

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

Pesticide Storage

Keep from freezing.

DO NOT store below 32° F.

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

Pesticide Disposal

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

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STORAGE AND DISPOSAL (continued)

Container Disposal

Nonrefilable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

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

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STORAGE AND DISPOSAL (continued)

Container Disposal (continued)

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

• CHEMTREC 1-800-424-9300

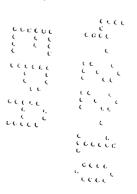
• BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Steps to be taken in case material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.



General Information

Clearcast® herbicide is an aqueous formulation that may be diluted in water and either applied directly to water for the control/suppression of certain submerged aquatic vegetation or applied as a broadcast or spot spray to floating and emergent vegetation. Aquatic sites that may be treated include estuarine and marine sites, ponds, lakes, reservoirs, wetlands, marshes, swamps, bayous, arroyos, ditches, canals, streams, rivers, creeks and other slowmoving or quiescent bodies of water. Clearcast may also be used during drawdown conditions. Clearcast may also be applied for terrestrial and riparian vegetation control in industrial noncropland sites, and railroad, utility, and highway rights-of-way. Industrial noncropland sites include utility plant sites, tank farms, pumping installations, storage areas, fence rows and ditch banks. Clearcast may also be used for the establishment and maintenance of wildlife openings. Clearcast may also be used on those sites listed above that may be grazed or cut for hay.

Clearcast is quickly absorbed by foliage and/or plant roots and rapidly translocated to the growing points stopping growth. Susceptible plants may develop a yellow appearance or general discoloration and will eventually die or be severely growth-inhibited.

Clearcast is herbicidally active on many submerged, emergent and floating broadleaf and monocot aquatic plants. The relative levels of control and selectivity can be manipulated by using a choice of rates and herbicide placement (water-injected or floating/emergent foliar application).

To help maintain the utility of herbicide programs, the use of herbicides with different modes of action is effective in managing weed resistance.

Spray Adjuvants

Applications of **Clearcast** to emergent, floating or shoreline species require the use of a spray adjuvant. Always use a spray adjuvant that is appropriate for aquatic sites.

Nonionic Surfactants

Use a nonionic surfactant at 0.25% volume/volume (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 an HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 70% 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 Oils or Vegetable Oil Concentrates

Instead of a surfactant, a methylated seed oil or vegetablebased seed oil concentrate may be used at 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix methylated seed oil or vegetablebased seed oil concentrates at 1% of the total spray volume, or alternatively use a nonionic surfactant as described above. Research indicates that these oils may aid in **Clearcast** deposition and uptake by plants under stress.

Silicone-based Surfactants

See manufacturer's label for specific rate recommendations. 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

Clearcast can be applied as an invert emulsion. The spray solution results in an invert (water-in-oil) spray emulsion designed to minimize spray drift and spray runoff, resulting in more herbicide on the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Consult the invert chemical label for proper mixing directions.

Other

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

Spray Drift Requirements For Aerial Application

- 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.
- Applicators are required to use upwind swath displacement.
- The boom length must not exceed 60% of the fixed wingspan or 90% of the rotor blade diameter to reduce spray drift.
- **DO NOT** apply when wind speed is greater than 10 mph.
- If applying at wind speeds less than 3 mph, the applicator must determine if
 - 1. Conditions of temperature inversion exist or
 - 2. Stable atmospheric conditions exist at or below nozzle height.

DO NOT make applications into areas of temperature inversions or stable atmospheric conditions.



Spray Drift Requirements For Ground Boom Application

- 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.
- Applications with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

DO NOT apply when wind conditions may result in drift, when temperature inversion conditions exist, or when spray may be carried to sensitive areas. See **Managing Off-target Movement** section for more drift reduction recommendations.

Aquatic Use Directions

Clearcast® herbicide may be applied directly to the water for the control of submerged aquatic plant species and some emergent and floating species, or as a foliar application specifically for emergent and floating species.

DO NOT exceed maximum use rate per application:

Water treatment - 500 ppb

(173 fl ozs of Clearcast per acre foot)

Foliar broadcast application - 1 gallon per acre (1.0 lb ae/A)

Foliar spot application - up to 5% Clearcast by volume

Clearcast may be applied by surface and aerial equipment including both fixed-wing aircraft and helicopter.

Foliar Application

Targeted Emergent and/or Floating Vegetation Application

To make surface applications targeting emergent or floating vegetation, uniformly apply with properly calibrated broadcast or spot treatment equipment in 10 or more gallons of water per acre. Spot treatments can be made with up to 5% **Clearcast** by volume. To ensure thorough spray coverage, higher spray volumes may be required when treating areas with large and/or dense vegetation. Use an appropriate spray pressure to minimize the drift potential depending upon spray equipment, conditions and application objectives.

Foliar Treatment of Emergent and Floating Vegetation Guidelines

- Always use a surfactant for foliar applications of emergent and floating weeds.
- Foliar applications of **Clearcast** may be made as a broadcast spray or as a spot spray with a percent spray solution ranging from 0.25% to 5% **Clearcast** by volume.
- Control will be reduced if spray is washed off foliage by wave action.

In aquatic sites, those application techniques described in the **Terrestrial Use Directions** section may be used to treat emergent vegetation.

Application to Water

Water Application to Target Submerged and/or Emergent/Floating Vegetation

Clearcast may be broadcast-applied to the water surface or injected below the water surface. Clearcast may be applied as undiluted product or diluted with water prior to application. Under surface-matted conditions, inject Clearcast below the water surface to achieve better product distribution.

Apply **Clearcast** to water to achieve a final concentration of the active ingredient of no more than 500 ppb. Multiple applications of **Clearcast** may be made during the annual growth cycle to maintain the desired vegetation response.

Clearcast® herbicide Rates Per Treated Surface Acre

Average Water	Desired Active Ingredient Concentration (ppb)*					
Depth of	50	100	200	500		
Treatment Site (feet)	Clearcast Rate per Treated Surface Acre (fl ozs)					
1	. 17	. 17 35 69 173				
2	35	69	138	346		
3	52	104	207	518		
4	70	138	277	691		
5	87	173	346	864		
6	104	207	415	1037		
7	122	242	484	1210		
8	139	277	553	1382		
9	157	311	622	1555		
10	174	346	691	1728		

^{*}Clearcast contains 1.0 pound of active ingredient per gallon. There are 128 fl ozs in one gallon.

Aerial Application

Clearcast may be applied by both fixed-wing aircraft and helicopter. There is no minimum spray volume when making applications directly to the water. For applications targeting emergent and/or floating vegetation, uniformly apply with properly calibrated equipment in 5 or more gallons of water per surface acre. For best results, make aerial applications using a minimum of 20 gallons per acre.

Drawdown Application

Clearcast may be used in drawdown situations to provide postemergence and/or preemergence control/suppression of aquatic vegetation. Apply **Clearcast** as a broadcast

spray at rates up to 1 gallon/A or as a spot spray treatment with up to 5% **Clearcast® herbicide** by volume. Make applications when water has receded and exposed soil is moist to dry. For postemergence (foliar) applications, wait at least two weeks after application before reintroducing water. When treating irrigation canals, the initial flush of recharge water after application must not be used for irrigation purposes.

Restrictions and Limitations

General Limitations

DO NOT apply **Clearcast** to achieve a total active ingredient concentration in the water greater than 500 ppb.

DO NOT apply more than 1 gallon of **Clearcast** per surface acre for the control of emergent and floating vegetation.

Irrigation Restrictions

- DO NOT use treated water to irrigate greenhouses, nurseries or hydroponics.
- DO NOT plant sugar beets, onions, potatoes or non-CLEARFIELD® canola in soils that have been previously irrigated with Clearcast-treated water until a soil bioassay successfully demonstrates acceptable levels of crop tolerance.
- DO NOT use Clearcast-treated waters resulting in a concentration > 50 ppb for irrigation until residue levels have been shown to be ≤ 50 ppb by an acceptable method.
- Wait 24 hours before irrigating from still or quiescent waters after making a Clearcast application for submerged vegetation < 100 feet from an irrigation intake.
- Wait 24 hours before irrigating from still and quiescent waters after making a Clearcast application to emergent and/or floating vegetation if > 25% of the surface area of the water body has been treated or application was made < 100 feet from an irrigation intake.
- Flowing waters may be used to irrigate allowable sites with no restrictions when Clearcast is applied at ≤ 2 quarts per acre to waters with an average depth of ≥ 4 feet.
- After application of Clearcast to dry irrigation canals/ditches, the initial flush of water during recharge must not be used for irrigation purposes unless the imazamox concentration has been determined by an acceptable method to be < 50 ppb.

Clearcast applied at ≤ 2 quarts per acre in or on waters with a minimum average depth ≥ 4 feet will result in Clearcast concentrations < 50 ppb.

Other Water Use Restrictions

There are no restrictions on livestock watering, swimming, fishing, domestic use, or use of treated water for agricultural sprays.

Potable Water

Clearcast may be applied to potable water sources at concentrations up to 500 ppb to within a distance of 1/4 mile from an active potable water intake. Within 1/4 mile of an active potable water intake, Clearcast may be applied, but water concentrations resulting from injection and/or foliar applications may not exceed 50 ppb. If water concentrations greater than 50 ppb are required, the potable water intake must be shut and, if necessary, an alternate water supply be made available until the water concentration can be shown to be less than 50 ppb by an acceptable method.

Endangered Plant Species

To prevent potential negative impacts to endangered plant species, **DO NOT** apply **Clearcast** in a way that adversely affects federally listed endangered and threatened species.

Weeds Controlled or Suppressed by Clearcast

Efficacy and selectivity of **Clearcast** is dependent upon many factors including: dose, time of year, stage of plant growth, plant susceptibility, method of application, and water movement. Rate selection will be partially dependent on characteristics of the treatment area and whether growth regulation or control is desired. Some areas may require a repeat application to control or suppress regrowth. Consult BASF Corporation to determine best treatment protocols to manage individual species and to meet specific aquatic plant management objectives.



Emergent, Floating, and Shoreline Species Controlled with Foliar Application

Common Name	Scientific Name	Rate (fl ozs/A)	Comments
Alligatorweed	Alternanthera philoxeroides	64 to 128	Repeat applications may be necessary. Add 1 qt/A of Rodeo® herbicide for quicker brownout.
American lotus	Nelumbo lutea	64 to 128	
Arrowhead	Sagittaria spp.	32 to 64	
Cattail	Typha spp.	32 to 64	Apply after full greenup through killing frost.
Chinese tallowtree	Sapium sebiferum	32 to 64	
Common reed	Phragmites spp.	96 to 128	Use 1 qt/A methylated seed oil (MSO); apply in late vegetative stage up to killing frost. Also apply as a spot treatment using 1% to 2% Clearcast® herbicide per spray volume. Older stands of phragmites and stands growing in water may be more difficult to control and will require follow-up applications.
Common salvinia	Salvinia minima	32 to 64	Apply with MSO or MSO + silicone-based surfactant; retreatment will be necessary.
Floating pennywort	Hydrocotyle ranunculoides	32 to 64	Repeat applications may be necessary.
Flowering rush	Butomus umbellatus	64 to 128	
Four-leaf clover	Marsilea spp.	32 to 64	
Frog's bit	Lymnobium spongia	16 to 32	
Giant cane	Arundo donax	64 to 128	
Japanese knotweed	Polygonum cuspidatum	64 to 128	
Mexican lily	Nymphaea mexicana	32 to 64	
Mosquito fern	Azolla spp.		Apply using 2% to 5% Clearcast and 1% MSO by volume.
Parrotfeather	Myriophyllum aquaticum	64 to 128	Apply only to emergent vegetation.
Pickerelweed	Pontederia cordata	32 to 64	
Smartweed	Polygonum spp.	16 to 32	
Spatterdock	Nuphar lutea	64 to 128	
Variable-leaf milfoil	Myriophyllum heterophyllum	64 to 128	Apply with MSO (1% v/v) as an emergent foliar treatment when plants have emerged on the surface. Also apply as a spot treatment using 1% to 3% Clearcast per spray volume.
Water chestnut	Trapa natans	64 to 128	Apply with MSO to emergent part of plant. Also apply as a spot treatment using 2% to 5% Clearcast per spray volume.
Water hyacinth	Eichhornia crassipes	16 to 32	
Water lettuce	Pistia stratiotes	48 to 96	
Water lily	Nymphaea spp.	32 to 64	
Water primrose	Ludwigia spp.	32 to 64	Add 1 qt/A of Rodeo for quicker brownout.
Watershield	Brasenia schreberi	48 to 64	
Wild taro	Colocasia esculenta	96 to 128	

Species Susceptible to Water-injected Applications

The following categories are provided to define species that may be growth regulated or controlled with **Clearcast® herbicide** following in-water applications: susceptible, moderately susceptible, and less susceptible.

Some species that are susceptible to foliar applications of **Clearcast** may be less susceptible to in-water applications. Use of higher rates are necessary to achieve desired control/suppression in areas of greater water exchange; when treating more mature or less susceptible plants; when targeting more difficult-to-control aquatic species; and when treating small areas in larger bodies of water (partial or spot treatments). Lower concentrations are generally used when conducting early season large-scale treatments; when greater selectivity is desired; and treating larger areas, more immature or susceptible plants, and areas with less potential for rapid water exchange.

Use of lower rates may increase selectivity on some species within the same category. Effects on susceptible plants can range from control to growth regulation depending on treatment site characteristics, exposure time, and application rate. Susceptible plant species may exhibit herbicide stress or reduced growth during active treatment phases. Whole lake applications with lower rates may provide plant growth regulation or greater selectivity while higher rates will generally provide broader activity.

Susceptible Vascular Aquatic Plants

Common Name	Scientific Name	
Curlyleaf pondweed	Potamogeton crispus	
Eurasian watermilfoil	Myriophyllum spicatum	
Hydrilla	Hydrilla verticillata	
Sago pondweed	Stuckenia pectinata	
Water hyacinth	Eichhornia crassipes	
Water stargrass	Heteranthera dubia	

Moderately Susceptible Vascular Aquatic Plants

Common Name	Scientific Name		
American pondweed	Potamogeton nodosus		
Bladderwort	Utricularia spp.		
Frog's bit	Lymnobium spongia		
Illinois pondweed	Potamogeton illinoensis		
Pickerelweed	Pontederia cordata		
Salvinia	Salvinia spp.		
Spikerush	Eleocharis baldwinii		
Variable-leaf milfoil	Myriophyllum heterophyllum		
Wigeon grass	Ruppia maritima		

Less Susceptible Vascular Aquatic Plants

Common Name	Scientific Name	
Bulrush	Schoenoplectus californicus	
Cattail	Typha spp.	
Coontail	Ceratophyllum demersum	
Egeria	Egeria densa	
Flowering rush	Butomus umbellatus	
Spatterdock	Nuphar lutea	
Southern naiad	Najas guadalupensis	
Water lily	Nymphaea odorata	
Watershield	Brasenia schreberi	

Special Weed Control - Sago Pondweed

In dry ditches (drainage and irrigation), sago pondweed may be controlled or growth suppressed with soil-applied **Clearcast** at 64 to 128 fl ozs/A. In irrigation canals, apply **Clearcast** after drawdown and prior to water recharge.

Terrestrial Use Directions

Clearcast® herbicide may be applied with ground and aerial equipment including both fixed-wing aircraft and helicopter. Applications may be made using foliar broadcast spray, foliar spot spray, injection (hack and squirt), frill and girdle, cut stump, or basal methods.

Broadcast Spray Application

DO NOT apply more than 1 gallon of Clearcast per acre.

Foliar Spot Application

Apply **Clearcast** as a percent solution, containing up to 5% **Clearcast** by volume.

Injection (Hack and Squirt), Frill and Girdle, and Cut Stump Application

Treatments may be made using up to 100% Clearcast by volume.

Basal Application

Treatments can be made using up to 25% **Clearcast** by volume. Basal applications require the use of a good emulsion system to maintain **Clearcast** in a stable emulsion with the penetrating agent being used.

All foliar applications of **Clearcast** require the use of a spray adjuvant. Refer to **Spray Adjuvants** section for additional information.

Managing Off-target Movement

The following information is general guidance for managing and minimizing off-target exposure of this product. Specific use recommendations in this label may vary from these general guidelines depending on the application method and objectives and should supersede the general information provided below.

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

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

- 1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the fixed wingspan or 90% of rotor blade diameter.
- 2. Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.
- DO NOT apply if wind speed is greater than 10 mph, except when making injection or subsurface applications to water.

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

The applicator must be familiar with and take into account the information covered in the following aerial drift reduction advisory information.

Information On Droplet Size

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

Controlling droplet size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure DO NOT exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provides 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.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the fixed wingspan or 90% of rotor blade diameter may further reduce drift without reducing swath width.

Application Height

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

Swath Adjustment

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

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential.

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

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

Sensitive Areas

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

Applicator is responsible for any loss or damage which results from spraying **Clearcast® herbicide** in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

ne con-

Clearcast* herbicide may be used for the control of the following plant species. Clearcast may be effective for the control or suppression of additional plant species not listed below. The use of Clearcast for the control or suppression of undesirable plants not listed below may be done at the discretion of the user.

To the extent consistent with applicable law, the user assumes responsibility for any lack of control or suppression associated with application to weeds not listed on this label.

Weeds Controlled

Common Name	Scientific Name	Rate Foliar (fl ozs/A)	Comments
Alligator weed	Alternanthera philoxeroides	64 to 128	Addition of glyphosate will improve efficacy.
Annual ryegrass	Lolium multiflorum	16 to 32	
Brazilian pepper; Christmasberry	Schinus terebinthifolius	96 to 128	Also apply using 2% to 5% Clearcast per spray volume.
California bulrush	Schoenoplectus californicus	64 to 128	
Camphor tree	Cinnamomum camphora	2% to 5% v/v	
Cattail	Typha spp.	32 to 64	
Chinese tallowtree; Popcorn tree	Sapium sebiferum	32 to 64	See Special Weed Control section.
Giant ragweed*	Ambrosia trifida	32 to 64	
Jamaican nightshade	Solanum jamaicense	2% to 5% v/v	
Japanese stiltgrass	Microstegium vimineum	32 to 64	Use MSO at 1% by spray volume. Clearcast will provide some residual control of subsequent seedling emergence.
Johnsongrass, seedling rhizome	Sorghum halepense	16 to 32 32 to 64	
Old World climbing fern	Lygodium microphyllum	5% v/v	
Phragmites	Phragmites australis	64 to 128	Use 1 qt/A methylated seed oil (MSO); apply in late vegetative stage up to killing frost. Also apply as a spot treatment using 1% to 2% Clearcast per spray volume. Older stands of phragmites and stands growing in water may be more difficult to control and will require follow-up applications.
Purple loosestrife	Lythrum salicaria	32 to 64	
Sedge*, purple yellow	Cyperus rotundus Cyperus esculentus	32 to 64 32 to 64	Also apply using 2% to 5% Clearcast per spray volume.
Smartweed	Polygonum spp.	32 to 64	! \
Spike rush	Eleocharis spp.	64 to 128	
Taro	Taro spp.	64 to 128 5% v/v	
Tropical soda apple	Solanum viarum	2% to 5% v/v	

(continued)

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Weeds Controlled (continued)

Common Name	Scientific Name	Rate Foliar (fl ozs/A)	Comments
Water primrose	Ludwigia spp.	32 to 64	Addition of glyphosate will improve efficacy.
Wetland nightshade	Solanum tampicense	2% to 5% v/v	
Whitetop; Hoary cress	Cardaria draba	8 to 16	
*Suppression of larger, well-	established plants		

In general, the use of methylated seed oil (MSO) at 1% v/v will provide the best control with foliar applications.

Special Weed Control - Chinese Tallowtree

Clearcast® herbicide at 32 to 64 fl ozs/A or 0.5 to 2.0% v/v may be applied as a foliar application for selective control of Chinese tallowtree in and around tolerant tree species. Control Chinese tallowtree with foliar applications using aerial, handgun, or backpack application methods. When treating Chinese tallowtree, ensure that application method and spray volume provide adequate coverage of targeted Chinese tallowtree plants. Add methylated seed oil at 32 fl ozs/A for broadcast applications, or at 1% v/v for spot backpack and handgun applications. Tolerant hardwood species may exhibit varying degrees of leaf discoloration and temporary injury.

Areas that may be Grazed or Cut for Hay

Apply **Clearcast** to listed aquatic and terrestrial noncrop sites that may be grazed or cut for hay at a maximum use rate of 1 gallon per acre of **Clearcast** or 5% (v/v) spray solution for spot treatments. There are no grazing or haying restrictions.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR **IMPLIED WARRANTY OF FITNESS OR** MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW. BUYER'S EXCLUSIVE REMEDY AND BASF'S **EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR** OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF. 1108

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BASF Corporation

26 Davis Drive Research Triangle Park, NC 27709





IMOXTM **HERBICIDE** Specimen Label

A herbicide for the selective management of undesirable vegetation in and around aquatic sites and terrestrial non-crop areas, industrial sites and rights-of-ways. The herbicide may be used on listed sites that are cut for hay or grazed.

ACTIVE INGREDIENT:

Ammonium salt of imazamox*	%
OTHER INGREDIENTS:	1%
TOTAL:)%
*Equivalent to 11.4% imazamox acid	

Contains 1 pound of imazamox acid equivalent per gallon.

EPA Reg. No. 81927-66

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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

Manufactured for:

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

FIDOT AID

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber > 14 mils, natural rubber (includes natural rubber blends and laminates) ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils
- · Shoes plus socks

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.

USER SAFETY RECOMMEDATIONS

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

ENVIRONMENTAL HAZARDS

This pesticide may be hazardous to plants outside the treated area. Do not apply to water except as specified in this label. Do not contaminate water when disposing of equipment washwater and rinsate

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agents. Hazardous Chemical Reaction may occur.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application

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.

Read the entire label before using Alligare IMOX™ Herbicide. Consult your State Agricultural Experimental Station or Extension Service Specialist for additional information on application timing, rates and any additional requirements or restrictions.

Ensure spray drift to non-target susceptible species does not occur.

DO NOT apply Alligare IMOX Herbicide in any manner not specifically described in this

Endangered Plant Species

To prevent potential negative impacts to endangered plant species, **DO NOT** apply Alligare IMOX Herbicide in a way that adversely affects federally listed endangered and threatened species.

PRODUCT INFORMATION

Alligare IMOX Herbicide is a water miscible concentrate designed to mix with water to form a solution. It may be diluted with water or applied directly to aquatic sites for selective vegetation management of susceptible aquatic vegetation or diluted and applied as a broadcast or spot spray to control target floating and emergent terrestrial and riparian vegetation.

Aquatic sites include: arroyos, bayous, canals and irrigation canals, creeks, ditches, estuarine sites, marine sites, lakes, marshes, ponds, reservoirs, rivers, slow-moving or quiescent bodies of water, streams, swamps and wetlands. The sites listed above may be treated with Alligare IMOX Herbicide during drawdown conditions.

Alligare IMOX Herbicide may also be applied for terrestrial and riparian vegetation control in industrial noncropland sites, and railroad, utility, and highway rights-of-way. Industrial noncropland sites include utility plant sites, tank farms, pumping installations, storage areas, fence rows and ditch banks. **Alligare IMOX Herbicide** may also be used for the establishment and maintenance of wildlife openings. The sites listed above and treated with Alligare IMOX Herbicide may be grazed or cut for hay.

Alligare IMOX Herbicide is an imidazolinone class herbicide that works by inhibition of acetolactate synthase (ALS) enzyme. Alligare IMOX Herbicide is quick to act by absorption and translocation into the foliage and/or roots, thus inhibiting plant growth. Once target plant growth is inhibited, leaves and growing points begin to discolor, followed by plant death or severe growth inhibition.

Many factors such as application rate, weed species, weed pressure, conditions of weeds including size and climatic factors impact the degree of weed control. Applications made to actively growing weeds at the early stages of development will optimize performance.

Alligare IMOX Herbicide is effective for the control/suppression of common problematic submersed, emergent and floating broadleaf and monocot aquatic vegetation. The degree of control and selectivity can be managed by timing, use rates, and application technique.

Specific use directions will be found in the following sections below:

- Terrestrial Sites
 - · Foliar Broadcast Application

 - Foliar Spot Treatment Application
 Injection (Hack and Squirt), Frill and Girdle, and Cut Stump application
- · Basal Application
- Aquatic Sites
 - Water Application to Submersed, Emergent and Floating Vegetation.
 Foliar Application to Emergent and/or Floating Vegetation.
- Aerial Application
- Drawdown Application

RESISTANCE MANAGEMENT RECOMMENDATIONS

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

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

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

To delay herbicide resistance:

- Avoid the consecutive use of Alligare IMOX Herbicide or other target site of action Group 2 herbicides that might have a similar target site of action, on the same weed
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program. Scout fields prior to application to identify the weed species present and their growth
- state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective



Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes

Report any incidence of non-performance of this product against a particular weed species to your Alligare LLC retailer, representative or call 888-252-4427. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

ADJUVANTS

For applications of Alligare IMOX Herbicide to emergent, floating or shoreline species, use of a spray adjuvant is required. The spray adjuvant used needs to be appropriate for aquatic sites.

Nonionic Surfactants: Use a nonionic surfactant at 0.25% volume/volume (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 an HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 70% 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 Oils or Vegetable Oil Concentrates: Methylated seed oil (MSO) or vegetable oil concentrate (VOC) may be used in replacement of a surfactant at 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix methylated seed oil or vegetable oil concentrates at 1% v/v of the total spray. The data indicates MSO aids in the deposition and imazamox uptake by plants under stress

Silicone-Based Surfactants: Silicone-based surfactants allow greater spreading of the spray droplet on the leaf surface, as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly and limit herbicide uptake or cause a target floating plant to sink quickly.

Refer to the surfactant manufacturer's label for specific rates.

Invert Emulsions: Alligare IMOX Herbicide may be applied as an invert emulsion spray. Prior to preparing an invert emulsion (water – oil) spray, conduct a jar test to check spray mixture compatibility. Invert emulsion sprays are designed to minimize spray drift and spray runoff, resulting in more herbicide on the target foliage. Use a single tank (batch mixing) or injected (in-line mixing) to prepare the invert emulsion spray. Refer to the emulsifier manufacture's label for specific rates and proper mixing directions for aquatic sites

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

Tank Mixing: It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture

SPRAY DRIFT MANAGEMENT (Mandatory)

Aerial Applications

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety
- · For all applications, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- \bullet The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- · Applicators must use 1/2 swath displacement upwind at the downwind edge of the application site.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
 Do not apply when wind speeds exceed 10 miles per hour at the application site.
- · Do not apply during temperature inversions.

Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above existing terrestrial or aquatic vegetation.
- · For all applications, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- · Do not apply when wind speeds exceed 10 miles per hour at the application site.
- · Do not apply during temperature inversions

SPRAY DRIFT ADVISORIES

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

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

Controlling Droplet Size - Ground Boom

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

 Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

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

Specimen Label

· BOOM HEIGHT - Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the application site and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aerially, do not release spray at a height greater than 10 ft above the canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

· WIND

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

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

TERRESTRIAL USE DIRECTIONS

Apply Alligare IMOX Herbicide with ground and aerial equipment including both fixed-wing aircraft and helicopter in sufficient water to obtain uniform distribution of spray to targeted foliage. Use foliar broadcast spray, foliar spot spray, injection (hack and squirt), frill and girdle, cut stump, or basal methods of applications

Broadcast Spray Application

DO NOT apply more than 1 gallon of Alligare IMOX Herbicide per acre per year.

Foliar Spot Application

Apply as a solution containing up to 5% v/v Alligare IMOX Herbicide spray.

Injection (Hack and Squirt), Frill and Girdle, and Cut Stump Application Treatments may be made using up to 100% v/v Alligare IMOX Herbicide solution.

Treatments can be made using up to 25% v/v Alligare IMOX Herbicide spray. Basal applications require the use of a good emulsion system to maintain Alligare IMOX Herbicide in a stable emulsion with a penetrating agent.

TERRESTRIAL RESTRICTIONS

DO NOT apply more than 1 pound of imazamox acid equivalent (1 gallon) per acre per year.

DO NOT exceed 2 applications of Alligare IMOX Herbicide per year.

Minimum Retreatment Interval: 14 days

Vegetation Controlled

Alligare IMOX Herbicide may be used for the control of the following plant species. Alligare IMOX Herbicide may be effective for the control or suppression of additional plant species not listed below. The use of Alligare IMOX Herbicide for the control or suppression of undesirable plants not listed below may be done at the discretion of the user

To the extent consistent with applicable law, the user assumes responsibility for any lack of control or suppression associated with application to weeds not listed on this label

Foliar Application- Species Controlled

Common Name	Scientific Name	Rate Foliar (fl . oz./A)	Note(s)	
Alligator weed	Alternanthera philoxeroides	64 - 128	A.	
Annual ryegrass	Lolium multiflorum	16 - 32		
Artichoke, Jerusalem	Helianthus tuberosus	64 - 128		
Bedstraw	Galium aparine	64 - 128		
Beet, wild	Beta procumbens	64 - 128		
Brazilian pepper* Christmasberry*	Schinus terebinthifolius	96 - 128	В.	
Buckwheat, wild	Polygonum convolvulus	64 - 128		
Buttercup	Ranunculus spp.	64 - 128		
California bulrush*	Schoenoplectus californicus	64 - 128		
Camphor tree*	Cinnamomum camphora	2% - 5% v/v		
Canola, volunteer (non-Clearfield®)	Brassica campestris Brassica napus	64 - 128		
Cattail	Typha spp.	32 - 64		
Chickweed, common	Stellaria media	64 - 128		
Chinese tallowtree Popcorn tree	Sapium sebiferum	64 - 128	C.	
Cocklebur, common	Xanthium strumarium	64 - 128		
Filaree, redstem Filaree, whitestem	Erodium cicutarium Erodium moschatum	64 - 128		



Rate Foliar Common Name Scientific Name Note(s) (fl . oz./A) Flixweed 64 - 128 Descurainia sophia Giant ragweed** Ambrosia trifida 32 - 64 Lamium amplexicaule 64 - 128 Henbit Jamaican nightshade* Solanum jamaicense 2% - 5% v/v 32 - 64 D. & E. Japanese stiltgrass Microsteaium vimineum 64 - 128 Jimsonweed Datura stramonium Johnsongrass, rhizome Sorghum halepense 32 - 64 16 - 32 Johnsongrass, seedling Knotweed, prostrate Polygonum aviculare 64 - 128 Kochia Kochia scoparia 64 - 128 64 - 128 Lambsquarters, common Chenopodium album Lettuce, miner's Mantia perfoliata 64 - 128 Mallow, common Malva neglecta 64 - 128 Mallow, Venice Hibiscus trionum 64 - 128 Mustard spp. Brassica spp. Nettle, burning Urtica urens 64 - 128 Nettleleaf goosefoot Chenopodium murale 64 - 128 Nightshade, black Solanum nigrum 64 - 128 Nightshade, Eastern black Solanum ptycanthum Nightshade, hairy Solanum sarrachoides Old World climbing fern* 5% v/v Lygodium microphyllum Pennycress, field Thlaspi arvense 64 - 128 Phragmites* Phragmites australis 64 - 128 F., G. & H. 64 - 128 Pigweed, prostrate Amaranthus blitoides Pigweed, redroot Amaranthus retroflexus Pigweed, smooth Amaranthus hybridus Pigweed, spiny Amaranthus spinosus 64 - 128 Puncturvine Tribulus terrestris 32 - 64 Purple loosestrife* Lythrum salicaria Purslane, common Portulaca oleracea 64 - 128 Radish, wild Raphanus raphanistrum 64 - 128 Ragweed, common Ambrosia artemisiifolia 64 - 128 Ragweed, giant Ambrosia trifida Rocket, London Sisymbrium irio 64 - 128 Barbarea vulgaris Rocket, yellow Saltcedar* Tamarix spp. 64 - 128 B. & D. Sedge*, purple Cyperus rotundus 32 - 64 В. Sedge*, yellow Cyperus esculentus Shepherd's-purse Capsella bursa-pastoris 64 - 128 64 - 128 Smartweed, ladysthumb Polygonum persicaria, Persicaria maculosa Smartweed, Pennsylvania Polygonum pensylvanicum, Persicaria pensylvanica Smartweed, swamp Polyaonum coccineum, Persicaria amphibia 64 - 128 Spike rush' Eleocharis spp. 64 - 128 Spurge, prostrate Euphorbia maculata 64 - 128 Sunflower, common Helianthus annuus Swinecress Coronopus didymus 64 - 128 Tansymustard, green Descurainia pinnata 64 - 128 64 - 128 Taro spp. 5% v/v Thistle, Russian 64 - 128 Salsola iberica Tropical soda apple* Solanum viarum 2% - 5% v/v 32 - 64 Water primrose A. Ludwigia spp. Wetland nightshade Solanum tampicense 2% - 5% v/v Cardaria draba Whitetop* 8 - 16 Hoary cress' Willoweed panicle Epilobium brachycarpum 64 - 128 Velvetleaf Abutilon theophrasti 64 - 128 Not approved for this use in California

- A. Use with an appropriate labeled glyphosate product will improve efficacy.
- B. Also use a 2% 5% v/v Alligare IMOX Herbicide spray C. See Special Weed Control section.

Suppression of larger, well-established plants

- D. Use MSO at 1% v/v by spray.
- E. Alligare IMOX Herbicide will provide some residual control of subsequent seedling emergence.
- F. Use 1 quart per acre of methylated seed oil (MSO); apply in late vegetative stage
- G. Also use a spot treatment with 1% 2% v/v Alligare IMOX Herbicide spray.
- H. Older stands of phramites and stands growing in water may require follow-up applications to control.

For optimum control with foliar applications, use methylated seed oil (MSO) at 1% v/v spray.

Specific Weed Control - Chinese Tallowtree

Apply Alligare IMOX Herbicide at 64 - 128 fluid ounces per acre or 0.5 - 2.0% v/v spray as a foliar application for selective control of Chinese tallowtree in and around tolerant tree species. Control Chinese tallowtree with foliar applications using aerial, handgun, or backpack application methods. Use an application method and spray volume that provides adequate coverage of targeted Chinese tallowtree plants. Add methylated seed oil at 1quart

Specimen Label

per acre for broadcast applications, or at 1% v/v for spot backpack and handgun applications. Tolerant hardwood species may exhibit varying degrees of leaf discoloration and temporary injury

Areas that may be Grazed or Cut for Hay

Alligare IMOX Herbicide applied to listed aquatic and terrestrial non-crop sites may be grazed or cut for hay at a maximum use rate of 1 gallon per acre of Alligare IMOX Herbicide or 5% v/v spray for spot treatments. There are no grazing or having restrictions.

AQUATIC USE DIRECTIONS

Apply Alligare IMOX Herbicide beneath the water surface or broadcast directly to the water surface for the control of target submersed aquatic plant species and for some emergent and floating species, or as a foliar broadcast application for emergent and floating species.

Apply Alligare IMOX Herbicide with ground and aerial equipment including both fixed-wing aircraft and helicopter in sufficient water to obtain uniform distribution of spray to water surface and/or targeted foliar applications.

Water Application to Submersed, Emergent and Floating Vegetation

Inject below the water surface or broadcast apply to the water surface with Alligare IMOX Herbicide to control submersed aquatic plant species and some emergent and floating species. Apply Alligare IMOX Herbicide as an undiluted product or diluted with water prior to application. When surface-matted conditions exist, inject Alligare IMOX Herbicide below the water surface to improve product distribution and efficacy.

Apply Alligare IMOX Herbicide to water to achieve a final concentration of the active ingredient of no more than 500 ppb. To maintain the desired vegetation response, multiple applications of Alligare IMOX Herbicide may be made during the annual growth cycle.

Alligare IMOX Herbicide Rates Per Treated Surface Acre

Average Water	Desired Active Ingredient Concentration (ppb)*				
Depth of	50	100	200	500	
Treatment Site (feet)	Alligare IMOX Herbicide Rate per Treated Surface Acre (fl. oz.)				
1	17	35	69	173	
2	35	69	138	346	
3	52	104	207	518	
4	70	138	277	691	
5	87	173	346	864	
6	104	207	415	1037	
7	122	242	484	1210	
8	139	277	553	1382	
9	157	311	622	1555	
10	174	346	691	1728	

^{*} Alligare IMOX Herbicide contains 1.0 pound of imazamox acid equivalent per gallon. 1 gallon = 128 fl. oz.

Foliar Application to Listed Emergent and/or Floating Vegetation

Broadcast apply or spot treat the water surface with Alligare IMOX Herbicide to control emergent and floating species. For broadcast applications, use a minimum of 10 gallons of water per surface acre in properly calibrated equipment for uniform coverage. Use higher spray volumes to ensure uniform spray coverage, when treating areas with large and/or dense vegetation. To minimize the drift potential, use an appropriate spray pressure depending upon spray equipment, conditions and application objectives. (See Spray Drift Ground Boom Application Requirements section.) As a spot treatment, use from 0.25 - 5%v/v Alligare IMOX Herbicide spray.

To enhance foliar applications on emergent and floating weeds, always use an adjuvant. If spray is washed off by wave action, control will be reduced.

In aquatic sites, application techniques described in the Terrestrial Use Directions section may be used to treat target emergent vegetation.

Aerial Application

Both fixed-wing aircraft and helicopter may be used to apply Alligare IMOX Herbicide by air. For direct applications to the water, there is no minimum spray volume. For broadcast applications targeting emergent and/or floating vegetation, use a minimum of 5 gallons of water per surface acre in properly calibrated equipment for uniform coverage. For aerial applications, best results are obtained by using a minimum of 20 gallons per acre. (See Spray Drift Aerial Application Requirements section.)

Drawdown Application

Alligare IMOX Herbicide may be used for preemergence and/or postemergence control/suppression of aquatic vegetation in drawdown situations. As a broadcast spray, apply Alligare IMOX Herbicide at rates up to 1 gallon per acre or as a spot treatment with apply Alligate IMOX Herbicide at raises up to 1 gallon per actor as a spot treatment with up to 5% v/v Alligare IMOX Herbicide spray. After water has receded and exposed soil is moist to dry, make application. After foliar postemergence applications, delay at least two weeks before reintroducing water.

AQUATIC RESTRICTIONS

DO NOT exceed maximum use rate per application:

Water treatment - 500 parts per billion (ppb) (173 fluid ounces of Alligare IMOX Herbicide (1.35 pounds of imazamox acid equivalent) per acre foot)

Foliar broadcast application - 1 gallon Alligare IMOX Herbicide per acre (1.0 pound of imazamox acid equivalent) per acre



Specimen Label

Foliar spot application - up to 5% v/v Alligare IMOX Herbicide

Minimum Retreatment Intervals:

Water treatment - 14 days; unless the retreatment is following an initial water column application that has failed to maintain the original targeted ppb concentration

Foliar broadcast applications - 14 days

Foliar spot applications - Retreat as needed

Irrigation Restrictions

- · DO NOT use treated water to irrigate greenhouses, nurseries, or hydroponics until the imazamox concentration has been determined by an acceptable method to be less than or
- DO NOT plant sugar beets, onions, potatoes or non-Clearfield® canola in soils that have been previously irrigated with Alligare IMOX Herbicide treated water until a soil bioassay successfully demonstrates acceptable levels of crop tolerance. The only exception to this restriction is if the water is from foliar applications to emergent and/or floating vegetation in flowing water sites where it has been applied at less than or equal to 1.5 quarts per acre to waters with an average depth of greater than or equal to 4 feet.
- · DO NOT use Alligare IMOX Herbicide treated waters resulting in a concentration greater than 50 ppb for irrigation of established (emerged) plants until residue levels have bee shown to be less than or equal to 50 ppb by an acceptable method.

 • DO NOT make Alligare IMOX Herbicide applications in and around golf course irrigation,
- sod farm irrigation, and vineyard irrigation waterbodies without testing potential irrigation water prior to irrigation and confirming the imazamox concentration to be less than or equal to 1.0 ppb.
- In still or quiescent waters, DO NOT use Alligare IMOX Herbicide treated water resulting in a concentration greater than 10 ppb for irrigation of newly seeded or newly established plants until imazamox residue levels have been shown to be less than or equal to 10 ppb by an acceptable method.
- · Wait 24 hours before irrigating from still or quiescent waters after making an Alligare IMOX Herbicide application for sub-merged vegetation less than 100 feet from an irrigation intake.
- · Wait 24 hours before irrigating from still and quiescent waters after making an Alligare IMOX Herbicide application to emergent and/or floating vegetation if greater than 25% of the surface area of the water body has been treated or application was made less than 100 feet from an irrigation intake.
- Flowing waters may be used to irrigate allowable sites with no restrictions when Alligare IMOX Herbicide is applied at less than or equal to 2 quarts per acre to waters with an average depth of greater than or equal to 4 feet.
- After application of Alligare IMOX Herbicide to dry irrigation canals/ditches below the high-water mark, the initial flush of water during recharge must not be used for irrigation purposes unless the imazamox concentration has been determined by an acceptable

Alliqure IMOX Herbicide applied at less than or equal to 2 quarts per acre in or on waters with a minimum average depth greater than or equal to 4 feet, will result in imazamox concentrations less than 25 ppb.

Other Water Use Restrictions

There are no restrictions on livestock watering, swimming, fishing, domestic use, or use of treated water for agricultural sprays. No recharge flush or water use restrictions are required for applications to dry areas above the high-water line of irrigation canals or channels.

Alligare IMOX Herbicide may be applied to potable water sources at concentrations up to 500 ppb to within a distance of 1/4 mile from an active potable water intake. Within 1/4 mile of an active potable water intake, Alligare IMOX Herbicide may be applied, but water concentrations resulting from injection and/or foliar applications may not exceed 50 ppb. If water concentrations greater than 50 ppb are required, the potable water intake must be shut and, if necessary, an alternate water supply be made available until the water concentration can be shown to be less than 50 ppb by an acceptable method.

Vegetation Controlled or Suppressed

The performance of **Alligare IMOX Herbicide** is dependent upon many factors including: dose, time of year, stage of plant growth, plant susceptibility, environmental conditions, method of application, and water movement. The rate selection is partially dependent on characteristics of the treatment area and whether growth regulation or control is desired. A repeat application to control or suppress regrowth may be required depending on environmental and growing conditions. To determine best management practices to control individual species and to meet specific aquatic plant management objectives consult with the local extension service.

Emergent, Floating, and Shoreline Species

Common Name	Scientific Name	Rate (fl. oz./A)	Note(s)
Alligatorweed	Alternanthera philoxeroides	64 - 128	A.& B.
American lotus	Nelumbo lutea	64 - 128	
Arrowhead	Sagittaria spp.	32 - 64	
Cattail	Typha spp.	32 - 64	C.
Chinese tallowtree	Sapium sebiferum	64 - 128	
Common reed	Phragmites spp.	96 - 128	D. & E.
Common salvinia	Salvinia minima	32 - 64	F.
Floating heart	Nymphoides spp.	64 - 128	G.
Floating pennywort	Hydrocotyle ranunculoides	32 - 64	A.
Flowering rush	Butomus umbellatus	64 - 128	
Four-leaf clover	Marsilea spp.	32 - 64	
Frog's bit, Sponge plant	Lymnobium spp.	16 - 32	
Giant cane	Arundo donax	64 - 128	

Common Name	Scientific Name	Rate Foliar (fl . oz./A)	Note(s)
Japanese knotweed	Polygonum cuspidatum	64 - 128	
Mexican lily	Nymphaea mexicana	32 - 64	
Mosquito fern	Azolla spp.	-	G.
Parrotfeather	Myriophyl/um aquaticum	64 - 128	H.
Pickerelweed	Pontederia cordata	32 - 64	
Saltcedar	Tamarix spp.	64 - 128	G.
Smartweed, ladysthumb	Polygonum persicaria, Persicaria maculosa	64 - 128	
Smartweed, Pennsylvania Smartweed, swamp	Polygonum pensylvanicum, Persicaria pensylvanica Polygonum coccineum, Persicaria amphibia		
Spatterdock	Nuphar lutea	64 - 128	
Variable-leaf milfoil	Myriophyllum heterophyllum	64 - 128	K. & L.
Water chestnut	Trapa natans	64 - 128	M. & G.
Water hyacinth	Eichhornia crassipes	16 - 32	
Water lettuce	Pistia stratiotes	48 - 96	
Water lily	Nymphaea spp.	32 - 64	
Water primrose	Ludwigia spp.	32 - 64	В.
Watershield	Brasenia schreberi	48 - 64	
Wild taro	Colocasia esculenta	96 - 128	

- A. Repeat applications may be necessary.
 B. Use with an appropriate labeled glyphosate product for faster brownout.
 C. Apply after full greenup through killing frost.
- D. Apply with MSO; apply in late vegetative stage up to killing frost
- E. Also apply as a spot treatment using 1% to 2% v/v Alligare IMOX Herbicide spray. Older stands of phragmites and stands growing in water may be more difficult to control and will require follow-up applications.
- F. Apply with MSO or MSO plus silicone-based surfactant; retreatment will be
- G. Also apply as a spot treatment using 2% to 5% v/v Alligare IMOX Herbicide plus 1% v/v MSO spray.
- H. Apply only to emergent vegetation.

 K. Apply with MSO (1 % v/v) as an emergent foliar treatment when plants have emerged on the surface.
- Also apply as a spot treatment using 1% to 3%v/v Alligare IMOX Herbicide spray.
- M. Apply with MSO to emergent part of plant.

Vascular Aquatic Plant Control Using Surface or Injected Herbicide Applications (50-

There are three herbicide susceptibility levels of control for vascular aquatic plants: susceptible (50-200 ppb), intermediately susceptible (100-300 ppb) and partially susceptible

Some vascular aquatic plants that are easy to control from foliar applications of Alligare IMOX Herbicide may be hard to control from in-water applications. Higher use rates may be required to achieve desired control/suppression in sites with high water exchange rates or when treating more mature or less susceptible plants or when targeting more difficult-tocontrol aquatic species or when treating small areas in larger bodies of water (partial or spot treatments). Lower concentrations are normally used when conducting early season largescale treatments; when greater selectivity is desired; and treating larger areas, more immature or susceptible plants, and areas with less potential for rapid water exchange.

Use of lower rates may increase selectivity on some species within the same category. Effects on susceptible plants can range from control to growth regulation depending on treatment site characteristics, exposure time, and application rate. Susceptible plant species may exhibit herbicide stress or reduced growth during active treatment phases. Whole lake applications with lower rates may provide plant growth regulation or greater selectivity while higher rates will normally provide broader activity

Vascular Aquatic Plant Susceptibility Chart

Common Name	Scientific Name	Rate (ppb)
American pondweed	Potamogeton nodosus	100 – 300
Bladderwort	Utricularia spp.	100 – 300
Bulrush	Schoenoplectus californicus	200 - 500
Cattail	Typha spp.	200 - 500
Coontail	Ceratophyllum demersum	200 - 500
Curlyleaf pondweed	Potamogeton crispus	50 – 200
Eelgrass, Japanese	Zostera japonica	200 - 500
Egeria	Egeria densa	200 - 500
Eurasian watermilfoil	Myriophyllum spicatum	50 - 200
Flowering rush	Butomus umbeliatus	200 - 500
Frog's bit	Lymnobium spongia	100 – 300
Hydrilla	Hydrilla verticillata	50- 200
Illinois pondweed	Potamogeton illinoensis	100 - 300
Pickerelweed	Pontederia cordata	100 - 300
Salvinia	Salvinia spp.	100 - 300
Sago pondweed	Stuckenia pectinata	50 – 200
Southern naiad	Najas guadalupensis	200 - 500
Spatterdock	Nuphar lutea	200 - 500
Spikerush	Eleocharis baldwinii	100 - 300
Variable-leaf milfoil	Myriophyllum heterophyllum	100 - 300



Common Name	Scientific Name	Rate (ppb)
Water hyacinth	Eichhomia crassipes	50 – 200
Water lily	Nymphaea odorata	200 - 500
Watershield	Brasenia schreberi	200 - 500
Water stargrass	Heteranthera dubia	50 - 200
Wigeon grass	Ruppia maritima	100 – 300

Specific Weed Control Directions

For Eurasian Watermilfoil. Use Alligare IMOX Herbicide at 100 - 200 ppb range early in the growing season to actively growing plants. Repeat applications may be required on mature Eurasian watermilfoil where the vegetation has topped out.

For Hydrilla. Use Alligare IMOX Herbicide at 150 - 200 ppb range early in the growing season to actively growing plants. Repeat applications may be required if the application is made prior to topped-out hydrilla. To suppress and growth-regulate hydrilla for up to 10 - 12 weeks, use a single application of 50 to 75 ppb. To extend the period of growth suppression when normal hydrilla growth resume, apply a second application of 50 to 75 ppb

For Japanese Eelgrass. Since Japanese eelgrass is found in tidal and intertidal areas and is a submersed aquatic plant, apply Alligare IMOX Herbicide either directly in the water or directly to the plant (e.g. at low tide).

- · Low-tide application When the Japanese eelgrass is exposed at low tide, apply Alligare IMOX Herbicide uniformly with properly calibrated broadcast or spot treatment equipment in 10 or more gallons of water per acre.
 - Use of an appropriate spray adjuvant approved for aquatic is optional
 - For spot treatments apply up to 5% v/v Alligare IMOX Herbicide spray. When treating areas with large and/or dense vegetation, higher spray volumes may be required. Depending upon spray equipment, conditions, and application objectives, adjust spray pressure to minimize drift potential.
 - For broadcast application, apply 4 32 fluid ounces per acre of Alligare IMOX Herbicide. Use the lower rate for management of seedlings.
- · In-water application If Japanese eelgrass is submersed, apply Alligare IMOX Herbicide as broadcast spray to the water surface or injected below the water surface.

 Alligare IMOX Herbicide may be applied as undiluted product or diluted with water before application. Under surface-matted conditions, inject Alligare IMOX Herbicide below the water surface to improve product distribution. Apply Alligare IMOX Herbicide to water to achieve a final concentration of the active ingredient of no more than 500 ppb. Multiple applications of Alligare IMOX Herbicide may be made during the annual growth cycle to maintain the desired vegetation response

For Sago Pondweed. In dry ditches (drainage and irrigation), sago pondweed may be controlled or growth-suppressed with soil-applied Alligare IMOX Herbicide at 64 - 128 fluid ounces per acre. In irrigation canals, apply Alligare IMOX Herbicide after drawdown and prior to water recharge.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container only. Avoid freezing. Store above 32°F. If frozen, poor weed control may result. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

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

(For rigid containers 5 gallons or less)

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. 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.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. (For nonrefillable rigid containers larger than 5 gallons)

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. 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.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple** rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Specimen Label

(For refillable rigid containers larger than 5 gallons)

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Offer for recycling, if available of recondition if appropriate 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

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Batch Code:

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:

Warranty: 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. To the extent consistent with applicable law, no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf **Terms of Sale:** 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

Limitation of Liability: 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. 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

IMOX™ is a trademark of Alligare, LLC

FPA 20180108



SPECIMEN LABEL

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)*	2.6%
OTHER INGREDIENTS	7.4%
TOTAL100	0.0%
*Equivalent to 42.9% 2-[4.5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 H-imidazol-2-yl	1-3-

pyridinecarboxylic acid or 4 pounds acid per gallon.

EPA Reg. No. 81927-24

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 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 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 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-

> Manufactured for: Alligare, LLC 13 N. 8th Street · Opelika, AL 36801

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- · Long-sleeve shirt and long pants
- Shoes plus socks

800-424-9300

· Chemical-resistant gloves for all mixers and loaders, plus applicators using handheld

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, chew ing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thor oughly 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 clear

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 must 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 must 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, lowvolume hand-operated spray equipment including back-pack and pump-up sprayers, and

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 agri-cultural 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

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 evewear

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,

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, including a lake, pond 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 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.

4 SL Specimen Label

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 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 must be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator needs to 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.
- nozzle orientation and flight speed when determining droplet size.

 2. Applicators are required to use upwind swath displacement.
- The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.
- 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:

- 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).

Specimen Label

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 temper-

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. Do not use fertilizers in a tank mix without a nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate.

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 fol-lowing 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)

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,

1 Use higher labeled rates

² Use minimum of 24 oz. per acre.

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)

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)

Honevsuckle (Lonicera spp.)

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.)

Including: Multiflora rose (Rosa multiflora)

Macartney rose (Rosa bracteata) 1 Use higher labeled rates.

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.)¹
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) 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.)

Huckleberry (Gaylussacia spp.)

Lvonia spp

Including: Fetterbush (Lyonia lucida)

Staggerbush (Lyonia mariana)

Madrone (Arbutus menziesii)

Maple (Acer spp.)

Melaleuca (Melaleuca quinquenervia)

Mulberry (Morus spp.)

Oak (Quercus spp.)*
Persimmon (Diospyros virginiana)*
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

- ¹Use higher labeled rates. ²Best control with applications prior to formation of fall leaf color.
- ³ The degree of control may be species dependent.
- ⁴For Water oak (Quercus nigra), Laurel oak (Q. laurifloria), Willow oak (Q. phellos) and Live oak (Q. virginiana) use higher labeled rates

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 vegeta-

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

Specimen Label

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

MIXING GUIDE FOR ALLIGARE IMAZAPYR 4 SL

SOLUTION VOLUME			NONIONIC SURFACTANT	
VOLUME.	1.0	2.5	5.0	OOM AO AM
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

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

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

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

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 milliter 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

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of Alligare Imazapyr 4 SL) per acre per year.

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 (Pinus virginiana)	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 (Pinus banksiana)	12 – 16
Lodgepole Pine (Pinus contorta)	12 – 16
Pitch Pine (Pinus rigida)	12 – 16
Ponderosa Pine (Pinus ponderosa)	12 – 16
Sugar Pine (Pinus lambertiana)	12 – 16
White Pine (Pinus strobus)	12 – 16
Black Spruce (Picea mariana)	12 – 16
Red Spruce (Picea rubens)	12 – 16
White Spruce (Picea glauca)	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 4™ 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

¹ Use of surfactant is not recommended.

Specimen Label

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

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of Alligare Imazapyr 4 SL) per acre per year.

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
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

¹ **DO NOT** make applications to white pine stands younger than three years old. To minimize potential injury to White Pine, release treatments must not be made prior to July 15.

² Applications must be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

³ 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 as 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 must 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.

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of **Alligare Imazapyr 4 SL**) per acre per year.

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.

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of Alligare Imazapyr 4 SL) per acre per year.

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.

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of Alligare Imazapyr 4 SL) per acre per year.

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, including 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 including 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 wetdand 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.

Specimen Label

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 must 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 must 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	$1-1\ \%$ 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	½ – 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	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 Specie	es	
*Alligatorweed	Alternanthera philoxeroides	$\frac{1}{2}-2$ 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	Sagittaria spp.	1/2 - 1 pint/acre (0.5% solution) applied in 100 GPA water mix. Ensure 100% coverage of actively growing, emergent foliage.
*Bacopa, lemon	Bacopa spp.	1/2 - 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.
*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.
*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. Do not tank-mix with glyphosate as this may reduce water primrose control.
Terrestrial/Marg	inal	
*Soda Apple, aquatic, Nightshade	Solanum tampicense	1 pint/acre applied to foliage
*Bamboo, Japanese	Phyllostachys spp.	$1\ \%-2$ 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.
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.

Specimen Label

COMMON NAME	SCIENTIFIC NAME	INSTRUCTIONS	
*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	1½ - 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%-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.	
*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	1½ – 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 Swamp Morning Glory; Water Spinach; Kangkong	Rhus spp. Ipomoea aquatic	1 – 1½ pints/acre applied to foliage. ½ – 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	½ – 1 pint/acre of this product applied to actively growing foliage, ensure good coverage.	
Willow	Salix spp.	1 − 1 ½ pints/acre of this product applied to actively	

^{*}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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

TANK MIXES 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.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Tank mixing with 2,4-

D or products which contain 2,4-D could result in reduced performance of this product when

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 must 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: Paying 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.

Do not use this product under pavement on residential properties including driveways or parking lots, nor in recreational areas including 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 must 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.

 $\textbf{IMPORTANT:} \ \ \text{Temporary yellowing of grass may occur when treatment is made after growth}$ commences. DO NOT add surfactant in excess of the specified rate (1 fluid ounce per 25 gal lons 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:

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of Alligare Imazapyr 4 SL) per acre per year.

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 pre-

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 sur-

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)

Specimen Label

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

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.

Restriction: Do not apply more than 1.5 lbs. acid equivalent (ae) imazapyr (equivalent to 48 fl. oz. of Alligare Imazapyr 4 SL) per acre per year

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:

- The control of undesirable (non-native, invasive and noxious) plant species.
 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

- 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.

Specimen Label

GROWTH HABIT²

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. Use a post-emergence application of this product to established biennials and perennials.

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 must 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

	GRASSES		Nettleleaf goosefoot	(Che
COMMON NAME	SPECIES	GROWTH HABIT ²	Oxeye daisy	(Chi
	Apply 1.0 – 1.5 pints per acre ¹		Pepperweed	(Lep
Annual bluegrass	(Poa annua)	Α	Pigweed	(Am
Broadleaf signalgrass	(Brachiaria platyphylla)	A	Plantain	(Pla
Canada bluegrass	(Poa compressa)	P	Puncturevine	(Trib
Downy brome	(Bromus tectorum)	A	Russian thistle	(Sal
Fescue	(Festuca spp.)	A/P	Smartweed	(Pol
Foxtail	(Setaria spp.)	Α	Sorrell	(Rui
Italian ryegrass	(Lolium multiflorum)	A	Sunflower	(Hel
Johnsongrass	(Sorghum halepense)	P	Sweet clover	(Me
Kentucky bluegrass	(Poa pratensis)	Р	Tansymustard	(Des
Lovegrass	(Eragrostis spp.)	A/P	Western ragweed	(Am
*Napier grass	(Pennisetum purpureum)	Р	Wild carrot	(Dai
Orchardgrass	(Dactylis glomerata)	Р	Wild lettuce	(Lac
Paragrass	(Brachiaria mutica)	Р	Wild parsnip	(Pas
Quackgrass	(Agropyron repens)	Р	Wild turnip	(Bra
Sandbur	(Cenchrus spp.)	Α	Woollyleaf bursage	(Fra
Sand dropseed	(Sporobulus cryptandrus)	Р	Yellow woodsorrel	(Oxa
Smooth brome	(Bromus inermis)	Р		
Vaseygrass	(Paspalum urvillei)	Р		Apply
Wild oats	(Avena fatua)	Α	Broom snakeweed4	(Gui
Witchgrass	(Panicum capillare)	Α	Bull thistle	(Cire
			Burclover	(Me
	Apply 1.5 - 2.0 pints per acre1		Chickweed, Mouseear	(Cei
Barnyardgrass	(Echinochloa crus-gali)	Α	Clover, Hop	(Trife
Beardgrass	(Andropogon spp.)	Р	Cocklebur	(Xar
Bluegrass, Annual	(Poa annua)	A	Cudweed	(Gna
*Bulrush	(Scirpus validus)	Α	Desert Camelthorn	(Alh
Cheat	(Bromus secalinus)	A	Diffuse knapweed	(Cei
Crabgrass	(Digitaria spp.)	Α	Dock	(Rui
Crowfootgrass	(Dactyloctenium aegyptium)	Α	Fiddleneck	(Am
Fall panicum	(Panicum dichotomiflorum)	Α	Goldenrod	(Sol
Giant Reed	(Arundo donax)	Α	Henbit	(Lar
Goosegrass	(Eleusine indica)	Α	Knotweed, prostrate	(Pol
Itchgrass	(Rottboellia exaltata)	Α	Pokeweed	(Ph)
Junglerice	(Echinochloa colonum)	Α	Purple loosestrife Purslane	(Lyti (Por
Lovegrass	(Eragrostis spp.)	Α	Pursiane Pusley, Florida	(Por
*Maidencane	(Panicum hemitomon)	Α	Rocket, London	(Sis
Panicum, Browntop	(Panicum tasciculatum)	Α	Rush skeletonweed	(Chi
Panicum, Texas	(Panicum texanum)	Α	Saltbrush	(Atri
Prairie threeawn	(Aristida oligantha)	P	Shepherd's-purse	(Ca)
Reed canarygrass	(Phalaris arundinacea)	P	Spurge, Annual	(Eug
Sandbur, Field	(Cenchrus incertus)	A	Stinging nettle4	(Urti
Signalgrass	(Brachiaria platyphylla)	A	Velvetleaf	(Abi
Torpedograss	(Panicum repens)	P	Yellow starthistle	(Cei
Wild barley	(Hordeum spp.)	A	Tollow Startillotto	(00)
Wooly Cupgrass	(Eriochloa villosa)	Α		Apply 2
	A		Arrowweed	(Plu
Dabia	Apply 2.0 – 3.0 pints per acre¹	Р	Canada thistle	(Cirs
Bahiagrass	(Paspalum notatum)	P P	Giant ragweed	(Am
Bermudagrass ³	(Cynodon dactylon)	P	Grey rabbitbrush	(Chi
Big bluestem Cattail	(Andropogon gerardil)	P P	Little mallow	(Ma
	(Typha spp.) (Imperata cylindrical)	P	Milkweed	(Asc
Cogongrass Dallisgrass	(Paspalum dilatatum)	P	Primrose	(Oei
Feathertop	(Paspaium dilatatum) (Pennisetum villosum)	P	Russian knapweed	(Cei
Guineagrass	(Panicum maximum)	P	Silverleaf nightshade	(Sol
Phragmites	(Phragmites austalis)	P	Sowthistle	(Sor
Prairie cordgrass	(Spartina pectinata)	P	Texas thistle	(Cirs
Saltgrass ³	(Distichlis stricta)	P		,
Sand dropseed	(Sporobolus cryptandrus)	P		
Sprangletop	(Leptochloa spp.)	A		
Timothy	(Phleum pretense)	P		
Wirestem muhly	(Muhlenbergia frondosa)	P		
odom muniy	(Mariicriborgia irondosa)	'		

BROADLEAF WEEDS

SPECIES

COMMON NAME

COMMON NAME	SPECIES	GROWTH HABIT ²
	Apply 1.0 – 1.5 pints per acre ¹	
Alligatorweed	(Alternanthera philoxeroides)	A/P
Burdock	(Arctium spp.)	В
Goosegrass	(Eleusine indica)	Α
Camphorweed	(Heterotheca subaxillaris)	Р
Carolina geranium	(Geranium carolinianum)	Α
Clover	(Trifolium spp.)	A/P
Common chickweed	(Stellaria media)	Α
Common ragweed	(Ambrosia artemisiifolia)	Α
Dandelion	(Taraxacum officinale)	P
Dog fennel	(Eupatorium capillifolium)	Α
Filaree	(Erodium spp.)	Α
Fleabane	(Erigeron spp.)	A
Hoary vervain	(Verbena stricta)	P
Horseweed	(Conyza canadensis)	A
Indian mustard	(Brassica juncea)	A
Kochia	(Kochia scoparia)	A
Lambsquarters	(Chenopodium album)	A P
*Lespedeza Miners lettuce	(Lespedeza spp.)	A
Mullein	(Montia perfoliata) (Verbascum spp.)	В
Nettleleaf goosefoot	(Chenopodium murale)	A
Oxeye daisy	(Chrysanthemum leucanthemur	
Pepperweed	(Lepidium spp.)	/// A
Pigweed	(Amaranthus spp.)	A
Plantain	(Plantago spp.)	P
Puncturevine	(Tribulus terrestris)	A
Russian thistle	(Salsola kali)	A
Smartweed	(Polygonum spp.)	A/P
Sorrell	(Rumax spp.)	P
Sunflower	(Helianthus spp.)	Α
Sweet clover	(Melilotus spp.)	A/B
Tansymustard	(Descurainia pinnata)	Α
Western ragweed	(Ambrosia psilostachya)	Р
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)	Р
Yellow woodsorrel	(Oxalis stricta)	Р
	Apply 1 F 2 0 pinto per cerel	
Broom snakeweed⁴	Apply 1.5 – 2.0 pints per acre¹ (Gutierrezia sarothrae)	Р
Bull thistle	(Cirsium vulgare)	В
Burclover	(Medicago spp.)	Ā
Chickweed, Mouseear	(Cerastium vulgatum)	A
Clover, Hop	(Trifolium procumbens)	Α
Cocklebur	(Xanthium strumarium)	Α
Cudweed	(Gnaphalium spp.)	Α
Desert Camelthorn	(Alhagi pseudalhagi)	Р
Diffuse knapweed	(Centaurea diffusa)	Α
Dock	(Rumex spp.)	Р
Fiddleneck	(Amsinckia intermedia)	Α
Goldenrod	(Solidago spp.)	Р
Henbit	(Lamium aplexicaule)	Α
Knotweed, prostrate	(Polygonum aviculare)	A/P
Pokeweed	(Phytolacca americana)	Р
Purple loosestrife	(Lythrum salicaria)	Р
Purslane	(Portulaca spp.)	Α
Pusley, Florida	(Richardia scabra)	A
Rocket, London	(Sisymbrium irio)	A
Rush skeletonweed ⁴	(Chondrilla juncea)	В
Saltbrush	(Atriplex spp.)	A
Shepherd's-purse	(Capsella bursa-pastoris)	A A
Spurge, Annual Stinging nettle	(Euphorbia spp.)	P
Velvetleaf	(Urtica dioica) (Abutilon theophrasti)	A
Yellow starthistle	(Centaurea solstitialis)	A
Tellow Startilistie	(Cernaurea soisinians)	Α
	Apply 2.0 – 3.0 pints per acre ¹	
Arrowweed	(Pluchea sericea)	A
Canada thistle	(Cirsium arvanse)	P
Giant ragweed	(Ambrosia trifida)	A
Grey rabbitbrush	(Chrysothamnus nauseosus)	P
Little mallow	(Malva parviflora)	B P
Milkweed	(Asclepias spp.)	P P
Primrose Pussian knapwood	(Contauras rapans)	P P
Russian knapweed	(Centaurea repens)	P
Silverleaf nightshade Sowthistle	(Solanum eleagnifolium) (Sonchus spp.)	A
Texas thistle	(Cirsium texanum)	P
	, Silviani Conditioni)	•

Specimen Label

VINES AND BRAMBLES

COMMON NAME	SPECIES	GROWTH HABIT ²
COMMON NAME	SPECIES	GROWTH HABIT
Field bindweed Hedge bindweed	Apply 0.5 pint per acre (Convolvulus arvensis) (Calystegia sequium	P A
Wild buckwheat	Apply 1.0 – 1.5 pints per acre¹ (Polygonum convolvulus)	Р
Greenbriar Honeysuckle Morningglory	Apply 1.5 – 2.0 pints per acre¹ (Smilax spp.) (Lonicera spp.) (Ipomoea spp.)	P P A/P
Poison ivy Redvine Wild rose	(Rhus radicans) (Brunnichis cirrhosa) (Rosa spp.)	P P
Including: Multiflora rose McCartney rose	(Rosa multiflora) (Rosa bracteata)	P P
	Apply 2.0 – 3.0 pints per acre	
Blackberry	(Rubus spp.)	Р
Dewberry	(Rubus spp.)	Р
*Kudzu³	(Pueraria lobata)	Р
Trumpetcreeper	(Campsis radicans)	P
Virginia creeper	(Parthenocissus quinquefolia)	P P
Wild grape	(Vitis spp.)	P

BRUSH SPECIES

COMMON NAME	SPECIES	GROWTH HABIT ²
A	pply 2.0 – 3.0 pints per acre	
American beech	(Fagus grandifolia)	Р
Ash	(Fraxinius spp.)	Р
Bald cypress	(Taxodium distichum)	P
Bigleaf maple	(Acer macrophylum)	P
Black locust⁵	(Robinia pseudoacacia)	P
Blackgum	(Nyssa sylvatica)	P
Boxelder	(Acer negundo)	Р
Brazilian peppertree	(Schinus terebinthifolius)	P
Cherry	(Prunus spp.)	P
Chinaberry	(Melia azadarach)	P
Chinese tallowtree	(Sapium sebiferum)	P
Dogwood	(Cornus spp.)	P
Elm ⁶	(Ulmus spp.)	P
Hawthorn	(Cartaegus spp.)	P
Hickory	(Carya spp.)	Р
Honeylocust ⁵	(Gleditsia triacanthos)	P
Maple	(Acer spp.)	P
Melaleuca	(Melaleuca quiquenervia)	Р
Mulberry	(Morus spp.)	Р
Oak	(Quercus spp.)	Р
Persimmon	(Diospyros virginiana)	Р
*Pine ⁵	(Pinus spp.)	Р
Poplar	(Populus spp.)	Р
Privet	(Ligustrum vulgare)	Р
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)	Р
Sumac	(Rhus spp.)	Р
Sweetgum	(Liquidambar styraciflua)	Р
*Water willow	(Justica americana)	Р
Willow	(Salix spp.)	Р
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 CONTAINERS:]

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equiv-

alent) promptly after emptying. (Nonrefillable ≤ 5 gallons): Triple rinse as follows: Empty the remaining contents into appli cation equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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 appli-

cation equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighter 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.

[REFILLABLE CONTAINERS:]

Refillable container. Refill this container with imazapyr only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to point of sale or offer for recycling if available, or by other procedures approved by state and local authorities.

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:

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

Terms of Sale: 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.

Limitation of Liability: 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.

EPA 20170616

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

Growth 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.



METHYLATED SEED OIL BLEND

PRINCIPAL FUNCTIONING AGENTS:

KEEP OUT OF REACH OF CHILDREN CAUTION! / PRECAUCIÓN!

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

Precautionary Statements: May cause eye or skin irritation. Avoid contact with eyes, skin, or clothing. Do not take internally. Wear protective eyewear when handling. Avoid breathing vapors. When handling wear coveralls over short-sleeved shirt, short pants, socks, chemical resistant shoes and chemical resistant gloves.

READ AND FOLLOW ALL LABEL DIRECTIONS AND CAUTIONS ON ALL PRODUCTS USED.

FIRST AID

Call a poison control center or doctor immediately for treatment advice. Have the product container or label with you when call or going for treatment.

IF SWALLOWED: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

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

GENERAL INFORMATION

ALLIGARE MSO is an oil-based spray adjuvant, designed for use with pesticides that suggest or require the use of an oil adjuvant. **ALLIGARE MSO** has been shown to boost the performance of products such as 2,4-D esters, SU's and many other products where the use of an oil adjuvant is advised. **ALLIGARE MSO** can be especially helpful wherever weeds have become large, have thick, waxy coatings or are otherwise under stress. **ALLIGARE MSO** is used on agricultural crops, in forestry applications, in industrial and R.O.W. settings, in pasture and rangeland areas and in T&O or in any non-aquatic application.

NET CONTENTS:

2.5 U.S. Gallons (9.46 liters)
 30 Gallon (113.55 liters)
 270 Gallons (1022.061 liters)

ALLIGARE MS0 may be used at rates of 3/4 pint to 6 quarts per acre depending on conditions and weeds. The lowest rates should be used on weeds with thin wax layers under ideal conditions. Higher doses will be required when stress occurs causing thicker wax layers, if there are large numbers of weeds or with weeds that have naturally thicker waxy cuticles.

APPLICATION RATES

AQUATIC USE RATES

Application amount of ALLIGARE MSO per 100 gallons of spray solution

Aquatic-surface Aquatic-submerged 20 to 40 ounces

NOTE: Always follow the recommendations on the label of the active formulation.

DIRECTIONS

Follow the mixing order on the label of the pesticide.

If no order is specified, add this product after other tank mix additives and pesticides, with good agitation. Do not put water into this product container unless all of the product has been poured out. Then triple rinse the container and pour the rinsate into the mix tank. Then continue adding water.

STORAGE AND DISPOSAL: Store in a cool, dry place. Do not introduce water to the container before use or during storage. Follow all local, state and local regulations for disposal of this and all other products and containers.

WARRANTY

Alligare, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Alligare, LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANT-ABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use: It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Alligare, LLC or the seller. All such risks shall be assumed by buyer. Limitation of Remedies: The exclusive remedy for losses or damages resulting from this product

Limitation of Remedies: The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Alligare, LLC's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or 2. Replacement of amount of product used. Alligare, LLC shall not be liable for losses or damages resulting from handling or use of this product unless Alligare, LLC is promptly notified of such loss or damage in writing. In no case shall Alligare, LLC be liable for consequential or incidental damages or losses.
The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Alligare, LLC or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

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