

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW

Washington, D.C. 20460

EPA Registration Number: Date of Issuance:

66222-168

5.31-11

NOTICE OF PESTICIDE:

X Registration

X Reregistration

Term of Issuance:

Unconditional

Name of Pesticide Product: Ecomazapyr 2SL

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code): Makhteshim Agan of North America, Inc.

4515 Falls of Neuse Rd., Suite 300

Raleigh, NC 27609

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

EPA received a label amendment request submitted on 5-23-11. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistation Eligibility Decision (RED) for **imazapyr** have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after twelve (12) months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

Signature of Approving Official:

Date:

5.31-11

Kable Bo Davis Product Manager 25 Herbicide Branch

Registration Division (7505P)

EPA Form 8570-6

If you have any questions regarding this Notice, please contact Erik Kraft at 703-308-9358 or Kraft.Erik@epa.gov.

Under the Federal Insecticide,

as amended, for the pesticide

registered under

EPA Est. No.

EPA Reg. No. 66

Fungicide, and Rodenticide Act,

Ecomazapyr 2SL

Ecomazapyr 2SL may ONLY be used for application to control undesirable emergent and floating aquatic vegetation in and around standing and flowing water, including estuarine and marine sites. Ecomazapyr 2SL may also be used to control undesirable vegetation growing in or around surface water in wetland, riparian and terrestrial habitats where applications may inadvertently contact surface water. Ecomazapyr 2SL may also be used for cut stump, cut stem and frill and girdle treatments within aquatic sites.

ACTIVE INGREDIENT:	% BY WT
Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-	
(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*	27.8%
INERT INGREDIENTS:	
TOTAL:	100.0%

*Equivalent to 22.6% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid equivalent per gallon.

A C C F P T E D

CAUTION

Manufactured for:

Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 Raleigh, NC 27609

EPA Reg. No. 66222-168

NET CONTENTS: GALLONS

FIRST AID

IF SWALLOWED:	Call a poison control center or doctor for further treatment advice.
	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to by a poison control center or doctor.
	Do not give anything to an unconscious person.
IF ON SKIN OR	Take off contaminated clothing.
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 eye open and rinse slowly and gently with water for 15 to 20 minutes.
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
IF INHALED:	Move person to fresh air.
	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
	HOTLINE NUMBER
Have the product c	ontainer or label with you when calling a poison control center or doctor or going for treatment.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR 1-800-308-5391 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves (except for pilots)
- · 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.

ENVIRONMENTAL HAZARDS

Do not apply to water except as specified in this label. Treatment of aquatic weeds may result in oxygen depletion or loss due to decomposition of dead plants. This oxygen loss may cause the suffocation of some aquatic organisms. Do not contaminate water when disposing of equipment washwaters or rinsate.

This pesticide is toxic to vascular plants and must be used strictly in accordance with the drift precautions on the label.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of Ecomazapyr 2SL must be mixed, stored and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

Do not mix, store or apply Ecomazapyr 2SL or spray solutions of Ecomazapyr 2SL 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.

Keep containers closed to avoid spills and contamination.

PRODUCT INFORMATION

Ecomazapyr 2SL is an aqueous solution intended to be mixed with water and surfactant(s) for application to control floating and emergent undesirable vegetation (see AQUATIC WEEDS CONTROLLED BY ECOMAZAPYR 2SL section and the ADDITONAL WEEDS CONTROLLED BY ECOMAZAPYR 2SL section) in or near bodies of water which may be flowing, non-flowing or transient. Ecomazapyr 2SL may be applied to 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 USES, PRECAUTIONS AND RESTRICTIONS section of this label for precautions, restrictions, and instructions on aquatic uses. Ecomazapyr 2SL 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).

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

Ecomazapyr 2SL controls most annual and perennial grasses, broadleaf weeds and many brush and vine species. Ecomazapyr 2SL will provide some residual control of undesirable species that germinate above the waterline. Ecomazapyr 2SL controls vegetation by absorption through emergent leaves and stems, from which it is translocated throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves, and necrosis spreads from this point. In perennials, Ecomazapyr 2SL is translocated into and kills underground or submerged storage organs to prevent 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. Applications of Ecomazapyr 2SL are rainfast within one hour after treatment.

Ecomazapyr 2SL will not control plants which are completely submerged or have a majority or their foliage under water.

Ecomazapyr 2SL must be applied to the emergent foliage of the target vegetation, since it has little-to-no activity on submerged vegetation. Residual concentrations of Ecomazapyr 2SL from direct application to water are not expected to be sufficient to provide control of undesirable vegetation. Apply Ecomazapyr 2SL so as to maximize spray contact onto the target vegetation while minimizing overspray onto adjacent or underlying water. For optimum performance, include a surfactant (see **ADJUVANTS** section for specific directions) in the spray solution and apply to actively growing weeds. Ecomazapyr 2SL may be applied in spot treatments by using low-volume directed application techniques or broadcast by using ground equipment, water craft or helicopter.

Apply Ecomazapyr 2SL with surface or helicopter application equipment in at least 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 to moving bodies of water must be made while traveling 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 target vegetation covers a large percentage of the surface area of impounded water, apply Ecomazapyr 2SL to alternating strips (i.e., Do not apply to every swath) to avoid oxygen depletion due to decaying vegetation, since oxygen depletion may result in the suffocation of 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 before retreatment. Begin treatment along the shore and proceed outward in alternating swaths as described above to allow aquatic organisms to move into untreated areas.

Avoid wash-off of sprayed foliage by spray boat or recreational boat backwash for one hour after application.

Apply Ecomazapyr 2SL at 2 to 6 pints per acre, depending on weed species and weed density. Use higher rates for heavy weed pressure. Refer to the AQUATIC WEEDS CONTROLLED ECOMAZAPYR 2SL section and the ADDITIONAL WEEDS CONTROLLED BY ECOMAZAPYR 2SL section of this label for specifics. Do not exceed 6 pints per acre (1.5 lb ai/A) per year.

Ecomazapyr 2SL may also be applied as a draw down treatment in areas described above. Apply Ecomazapyr 2SL to weeds after water has been drained and allow 14 days before reintroduction of water.

PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Ecomazapyr 2SL can occasionally affect non-target or desirable vegetation by root uptake of the herbicide from treated soil. Injury or loss of non-target plants may result if Ecomazapyr 2SL is applied onto or near desirable plants, or to areas where their roots extend, or in areas where treated soil may be washed or moved into contact with their root zone.

When making applications along shorelines where desirable plants may be present, exercise caution to avoid spray contact onto their foliage or spray application to the soil in which they are rooted. Shoreline plants with roots that extend into the waters where Ecomazapyr 2SL has been applied will generally not be adversely affected.

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.

IMPORTANT

Do not use on food crops. Do not apply this product within one-half mile upstream of an active potable water intake in flowing water (i.e., river, stream, etc.) or within one-half mile of an active potable water intake in a standing body of water, such as a lake, 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 away from fertilizers, insecticides, fungicides, and seeds. Do not drain or flush equipment on or near desirable plants, or onto areas where their roots may extend, or in locations where the chemical or treated soil may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas where roots of desirable vegetation may extend and be exposed to potential injury and/or mortality from root uptake of Ecomazapyr 2SL. Do not side trim desirable vegetation with this product unless severe injury or plant death is acceptable. Prevent drift of spray to desirable plants.

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

Do not enter or allow others to enter treated areas until sprays have dried.

SPRAY DRIFT MANAGEMENT

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

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other 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, and temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

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 the 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 (helicopter, ground driven spray bloom) 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 treatment area, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

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

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

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during temperature 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 Applications:

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 wingspan or 90% of the rotor blade diameter to reduce spray drift.

Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited.

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.

Applications with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited.

AQUATIC SPECIES CONTROLLED BY ECOMAZAPYR 2SL

Ecomazapyr 2SL will control the following target species when used as directed in the table below. Rate specifications are expressed as product volume for broadcast applications and as a % solution for directed applications including spot treatments. For % solution applications, do not apply more than the equivalent of 3 quarts of Ecomazapyr 2SL per acre.

COMMON NAME	SCIENTIFIC NAME	SPECIFICATIONS
Floating Species		
*Duckweed	Lemna minor	2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage.
*Duckweed, Giant	Spirodela polyriza	2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage.
*Frogbit	Limnobium spongia	1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage
*Spatterdock	Nuphar luteum	Apply a tank-mix of 2-4 pints/acre Ecomazapyr 2SL plus 4-6 pints/acre glyphosate (0.5% Ecomazapyr 2SL plus 1.5% glyphosate) in 100 GPA water for best control. Completely cover all actively-growing emergent foliage.
*Water Hyacinth	Eichhornia crassipes	1-2 pints/acre (0.5% solution) in 100 GPA water to actively growing foliage.
*Water Lettuce	Pistia stratiotes	1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage.
Emerged Species		

*Arrowhead, Duck-potato *Bacopa, lemon *Parrot feather *Pennywort *Pickerelweed *Taro, wild; Dasheen; Elephant's Ear; Coco Yam *Water lily *Water Primrose *Terrestrial/Marginal *Soda Apple, aquatic; Nightshade	Alternanthera chiloxeroides Sagittaria spp. Bacopa spp. Myriophyllum aquaticum Hydrocotyle spp. Pontederia cordata Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis Solanum tampicense	1-4 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with glyphosate, since doing so may reduce control. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Apply 2-4 pints in 100 GPA water to actively growing emergent foliage. Foliage must be above water for sufficient uptake. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage.
*Arrowhead, Duck-potato *Bacopa, lemon *Parrot feather *Pennywort *Pickerelweed *Taro, wild; Dasheen; Elephant's Ear; Coco Yam *Water lily *Water Primrose *Terrestrial/Marginal *Soda Apple, aquatic; Nightshade	Sagittaria spp. Bacopa spp. Myriophyllum aquaticum Hydrocotyle spp. Pontederia cordata Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis	actively-growing emergent foliage. Do not apply as a tank-mix with glyphosate, since doing so may reduce control. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Apply 2-4 pints in 100 GPA water to actively growing emergent foliage. Foliage must be above water for sufficient uptake. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage.
Duck-potato *Bacopa, lemon *Parrot feather *Pennywort *Pickerelweed *Taro, wild; Dasheen; Elephant's Ear; Coco Yam *Water lily *Water Primrose *Terrestrial/Marginal *Soda Apple, aquatic; Nightshade	Bacopa spp. Myriophyllum aquaticum Hydrocotyle spp. Pontederia cordata Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis	glyphosate, since doing so may reduce control. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Apply 2-4 pints in 100 GPA water to actively growing emergent foliage. Foliage must be above water for sufficient uptake. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage.
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*Pennywort F *Pickerelweed F *Taro, wild; Dasheen; Elephant's Ear; Coco Yam *Water lily	Hydrocotyle spp. Pontederia cordata Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis	Apply 2-4 pints in 100 GPA water to actively growing emergent foliage. Foliage must be above water for sufficient uptake. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA with a high quality 'sticker' adjuvant. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
*Pennywort	Hydrocotyle spp. Pontederia cordata Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis	Foliage must be above water for sufficient uptake. 1-2 pints/acre (0.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA with a high quality 'sticker' adjuvant. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
*Pickerelweed F *Taro, wild; Dasheen; Elephant's Ear; Coco Yam *Water lily	Pontederia cordata Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis	actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA with a high quality 'sticker' adjuvant. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
*Taro, wild; Dasheen; Elephant's Ear; Coco Yam *Water lily *Water Primrose *Soda Apple, aquatic; Nightshade	Colocasia esculentum Nymphaea odorata Ludwigia uruguayensis	2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA with a high quality 'sticker' adjuvant. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
Elephant's Ear; Coco Yam *Water lily *Water Primrose L Terrestrial/Marginal *Soda Apple, aquatic; Nightshade	Nymphaea odorata Ludwigia uruguayensis	4-6 pints/acre (1.5% solution) in 100 GPA with a high quality 'sticker' adjuvant. Completely cover all actively-growing emergent foliage. 2-3 pints/acre (1% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
*Water lily *Water Primrose L Terrestrial/Marginal *Soda Apple, aquatic; Nightshade	Ludwigia uruguayensis	actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
*Water Primrose L Terrestrial/Marginal *Soda Apple, aquatic; Nightshade	Ludwigia uruguayensis	actively-growing emergent foliage. 4-6 pints/acre (1.5% solution) in 100 GPA water. Completely cover all actively-growing emergent foliage. Do not apply as a tank-mix with
Terrestrial/Marginal *Soda Apple, aquatic; Nightshade		actively-growing emergent foliage. Do not apply as a tank-mix with
*Soda Apple, S aquatic; Nightshade	Solanum tampicense	
*Soda Apple, S aquatic; Nightshade	Solanum tampicense	and the second control of the second contro
*Soda Apple, S aquatic; Nightshade	Solanum tampicense	
		2 pints/acre applied to foliage.
	Phyllostachys spp.	3-4 pints/acre applied to actively-growing foliage before plants set seed
	nymocratiny o oppy	heads. The greater the amount of foliage present at treatment, the greater the exposure to the herbicide for plant uptake, which will result in greater
D	0-1-1	root kill.
Christmasberry	Schinus terebinthifolius	2-4 pints/acre applied to foliage.
Cattail	Typha spp.	2-4 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 S	Sapium sebiferum	16-24 oz applied to foliage.
	mperata cylindrica	Burn foliage, till area, then treat in fall at 2 quarts/acre Ecomazapyr 2SL plus MSO applied to new growth.
Cordgrass, prairie S	Spartina spp.	4-6 pints applied to actively growing foliage.
	Zizaniopsis miliacea	4-6 pints applied to actively growing foliage.
	Pennisetum purpureum	3 pints/acre applied to actively growing foliage.
Napier Grass	omnostam parparoam	pinter data applied to delivery givening remage.
	Butumu typla	2-3 pints applied to actively growing foliage.
	Arundo donax	4-6 pints/acre applied in spring to actively growing foliage.
	Phyllostachys aurea	3-4 pints/acre applied to actively-growing foliage before plants set seed heads. The greater the amount of foliage present at treatment, the greater the exposure to the herbicide for plant uptake, which will result in greater root kill.
Junglerice E	Echinolchloa colonum	3-4 pints applied to actively growing foliage.
	Centaurea species	Russian Knapweed - Apply 2-3 pints plus 1 quart/acre MSO in the fall after senescence begins.
(see Fallopia	Polygonum cuspidatum	3-4 pints/acre applied postemergence to actively growing foliage.
japonica)	Malalauna quinquanania	For established stands, apply 6 pints/gare Formazony 291 plus 6
Melaleuca; Paperbark Tree	Melaleuca quinquenervia	For established stands, apply 6 pints/acre Ecomazapyr 2SL plus 6 pints/acre glyphosate plus adjuvant. For best results, use 4 quarts/A methylated seed oil for adjuvant. For ground foliar application, uniformly apply to completely cover all actively-growing foliage. For aerial foliar application, apply in at least two passes in a cross pattern at 10 GPA. For spot treatment, apply a 25% solution of Ecomazapyr 2SL plus 25% solution of glyphosate plus 1.25% MSO in water as a frill or stump
		treatment.
		dodunon.

COMMON NAME	SCIENTIFIC NAME	SPECIFICATIONS
		postemergence.
*Nutsedge	Cyperus spp.	2-3 pints postemergence to foliage or pre-emergence incorporated. Non-
		incorporated preemergence applications will not provide control.
Phragmites;	Phragmites australis	4-6 pints/acre applied to actively-growing, green foliage after leaf
Common Reed	İ	elongation. Completely cover all actively-growing foliage. 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	2 pints Ecomazapyr 2SL plus 1 quart/ acre MSO applied preemergence or
		early postemergence up to rosette stage before flowering.
Purple Loosestrife	Lythrum salicaria	1 pint/acre applied to actively growing foliage.
Reed canarygrass	Phalaris arundinacea	3-4 pints/acre applied to actively growing foliage.
Rose, swamp	Rosa palustris	2-3 pints/ acre applied to actively growing foliage.
Russian-Olive	Elaeagnus angustifolia	2-4 pints/acre or 1% solution applied to foliage.
Saltcedar;	Tamarix species	Aerially apply 2 quarts Ecomazapyr 2SL plus 0.25% v/v NIS to actively
Tamarisk		growing foliage during flowering. For spot spraying, use a 1% solution of
		Ecomazapyr 2SL plus 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.	2 pints/acre applied early postemergence.
Sumac	Rhus spp.	2-3 pints/acre applied to foliage.
Swamp Morning	Ipomoea aquatica	1-2 pints/acre Ecomazapyr 2SL plus 1 quart/acre MSO applied at early
Glory;		postemergence.
Water Spinach;		
Kangkong		
Torpedo grass	Panicum repens	4 pints/acre (1-1.5% solution). Completely cover all actively growing
		foliage.
*White Top;	Cardaria draba	1-2 pints/acre applied in spring to foliage during flowering.
Hoary Cress		
Willow	Salix spp.	2-3 pints/acre Ecomazapyr 2SL. Completely cover all actively growing
		foliage.

^{*} Not approved for use in California

ADDITIONAL WEEDS CONTROLLED BY ECOMAZAPYR 2SL

When used as directed on terrestrial sites, Ecomazapyr 2SL will provide preemergence or postemergence control with residual control of the following vegetation species. Annual weeds may be controlled by preemergence or postemergence applications of Ecomazapyr 2SL. Use postemergence treatments of Ecomazapyr 2SL for established biennials and perennial vegetation control.

The tables below show broadcast rates and indicate relative weed sensitivity. It is important to consider relative weed sensitivity when preparing low volume spray solutions (see **LOW VOLUME** section of **GROUND APPLICATIONS** section), since low volume treatments apply less Ecomazapyr 2SL per acre than is shown for the broadcast treatments.

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 those species are considered to be desirable within the treatment area.

Resistant Biotypes: Some weeds listed below may have naturally occurring biotypes (plants within a given species that have a slightly different but distinct genetic makeup from other plants of that species) that are not effectively controlled by this and/or other herbicides (Oust®) with the ALS/AHAS enzyme-inhibiting mode of action. If naturally- occurring ALS/AHAS-resistant biotypes are present in area. Tank mix or apply Ecomazapyr 2SL sequentially with a registered herbicide that depends on a different mode of action to ensure control.

GRASSES
Apply 2-3 pints per acre¹

COMMON NAME	SPECIES	GROWTH HABIT ²
Annual bluegrass	Poa annua	A
Broadleaf signalgrass	Brachiaria platyphylla	Α
Canada bluegrass	Poa compressa	Р
Downy brome	Bromus tectorum	A
Fescue	Festuca spp.	A/P
Foxtail	Setaria spp.	Δ Α
Italian ryegrass	Lolium multiflorum	Α
Johnsongrass	Sorghum halepense	Р

Kentucky bluegrass	Poa pratensis	Р
Lovegrass	Eragrostis spp.	A/P
*Napier grass	Pennisetum purpureum	Р
Orchardgrass	Dactylis glomerata	Р
Paragrass	Brachiaria mutica	Р
Quackgrass	Agropyron repens	Р
Sandbur	Cenchrus spp.	Α
Sand dropseed.	. Sporobulus cryptandrus	P
Smooth brome	Bromus inermis	Р
Vaseygrass	Paspalum urvillei	Р
Wild Oats	Avena fatua	A
Witchgrass	Panicum capillare	. A

Apply 3-4 pints per acre¹

COMMON NAME	SPECIES	GROWTH HABIT ²
Barnyardgrass	Echinochloa crus-gali	_ A
Beardgrass	Andropogon spp.	Р
Bluegrass, Annual	Poa annua	A
*Bulrush	Scirpus validus	Р
Cheat	Bromus secalinus	A
Crabgrass	Digitaria spp.	A
Crowfootgrass	Dactyloctenium aegyptium	Α
Fall Panicum	Panicum dichotomiflorum	A
Goosegrass	Eleusine indica	A
Itchgrass	Rottboellia exaltata	A
Lovegrass	Eragrostis spp.	A
*Maidencane	Panicum hemitomon	A
Panicum, Browntop	Panicum fasciculatum	A
Panicum, Texas	Panicum texanum	Α
Prairie threeawn	Aristida oligantha	P
Sandbur, Field	Cenchrus incertus	A
Signalgrass	Brachiaria platyphylla	A
Wild barley	Hordeum spp.	A
Woolly Cupgrass	Eriochloa villosa	· A

Apply 4-6 pints per acre

COMMON NAME	SPECIES	GROWTH HABIT ²
Bahiagrass	Paspalum notatum	Р
Bermudagrass ³	Cynodon dactylon	Р
Big bluestem	Andropogon gerardii	Р
Dallisgrass	Paspalum dilatatum	Р
Feathertop	Pennisetum villosum	Р
Guineagrass	Panicum maximum	Р
Saltgrass ³	Distichlis stricta	Р
Sand dropseed	Sporobolus cryptandrus	P
Sprangletop	Leptochloa spp.	A
Timothy	Phleum pretense	Р
Wirestem muhly	Muhlenbergia frondosa	P

BROADLEAF WEEDS

Apply 2-3 pints per acre¹

Carpetweed Mollugo verticillata A Carolina geranium Geranium carolinianum A Clover Trifolium spp. A/P Common chickweed Stellaria media A Common ragweed Ambrosia artemisiifolia A Dandelion Taraxacum officinale P Dog fennel Eupatorium capillifolium A Filaree Erodium spp. A Fleabane Erigeron spp. A Hoady vervain Verbean stricta P Indian mustard Brassica juncea A Kochia Kochia scoparia A Lambsquarters Chenopodium album A *L'espedeza Lespedeza spp. P Miners lettuce Montia perfoliata A Mullein Verbascum spp. B Nettleleaf goosefoot Chenopodium murale A Oxeye daisy Chrivanitemum leucanthemum P Pepperweed Lepidium spp. A **Pepperweed Amaranthus spp. A	COMMON NAME	SPECIES	GROWTH HABIT ²
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Pigweed Amaranthus spp. A Puncturevine Tribulus terrestris A Russian thistle Salsola kali A Smartweed Polygonum spp. A/P Sorrell Rumex spp. P Sunflower Helianthus spp. A Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Oxeye daisy	Chrysanthemum leucanthemum	Р
Puncturevine Tribulus terrestris A Russian thistle Salsola kali A Smartweed Polygonum spp. A/P Sorrell Rumex spp. P Sunflower Helianthus spp. A Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Pepperweed	Lepidium spp.	A
Russian thistle Salsola kali A Smartweed Polygonum spp. A/P Sorrell Rumex spp. P Sunflower Helianthus spp. A Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Pigweed	Amaranthus spp.	A
Smartweed Polygonum spp. A/P Sorrell Rumex spp. P Sunflower Helianthus spp. A Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Puncturevine	Tribulus terrestris	A
Sorrell Rumex spp. P Sunflower Helianthus spp. A Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Russian thistle	Salsola kali	A
Sunflower Helianthus spp. A Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Smartweed	Polygonum spp.	A/P
Sweet clover Melilotus spp. A/B Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Sorrell		Р
Tansymustard Descurainia pinnata A Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Sunflower	Helianthus spp.	A
Western ragweed Ambrosia psilostachya P Wild carrot Daucus carota B Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Sweet clover	Melilotus spp.	A/B
Wild carrot Daucus carota B Wild lettuce Lactuca spp A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Tansymustard	Descurainia pinnata	Α
Wild lettuce Lactuca spp. A/B Wild parsnip Pastinaca sativa B Wild turnip Brassica campestris B Woollyleaf bursage Franseria tomentosa P	Western ragweed	Ambrosia psilostachya	P
Wild parsnipPastinaca sativaBWild turnipBrassica campestrisBWoollyleaf bursageFranseria tomentosaP	Wild carrot	Daucus carota	В
Wild turnipBrassica campestrisBWoollyleaf bursageFranseria tomentosaP	Wild lettuce	Lactuca spp.	A/B
Wild turnipBrassica campestrisBWoollyleaf bursageFranseria tomentosaP	Wild parsnip	Pastinaca sativa	
	Wild turnip	Brassica campestris	
Yellow woodsorrel Oxalis stricta P	Woollyleaf bursage	Franseria tomentosa	
	Yellow woodsorrel	Oxalis stricta	Р

Apply 3-4 pints per acre GROWTH HABIT ²		
COMMON NAME		GROWIN HABII
Broom snakeweed⁴	Gutierrezia sarothrae	P
Bull thistle	Cirsium vulgare	В
Burclover	Medicago spp.	A
Chickweed, Mouseear	Cerastium vulgatum	Α
Clover, Hop	Trifolium procumbens	A
Cocklebur	Xanthium strumarium	A
Cudweed	Gnaphalium spp.	A
Desert Camelthorn	Alhagi pseudalhagi	P
Dock	Rumex spp.	P
Fiddleneck	Amsinckia intermedia	Α
Goldenrod	Solidago spp.	P
Henbit	Lamium aplexicaule	Α
Knotweed, prostrate	Plygonum aviculare	A/P
Pokeweed	Phytolacca americana	P
Purslane	Portulaca spp.	A
Pusley, Florida	Richardia scabra	A
Rocket, London	Sisymbrium irio	A
Rush skeletonweed4	Chondrilla juncea	В
Saltbush	Atriplex spp.	A
Sheperd's-purse	Capsella bursa-pastoris	Α
Spurge, Annual	Euphorbia spp.	A

Stinging nettle ⁴	Urtica dioica	Р
Velvetleaf	Abutilon theophrasti	A
Yellow starthistle	Centaurea solstitialis	A

Apply 4-6 pints per acre¹

COMMON NAME	SPECIES	GROWTH HABIT ²
Arrowwood	Pluchea sericea	A
Canada thistle	Cirsium arvense	Р
Giant ragweed	Ambrosia trifida	A
Grey rabbitbrush	Chrysothamus nauseosus	Р
Little mallow	Malva parviflora	В
Milkweed	Asclepias spp.	Р
Primrose	Oenothera kunthiana	Р
Silverleaf nightshade	Solanum eleagnifolium	Р
Sowthistle	Sonchus spp.	A
Texas thistle	Cirsium texanum	Р

VINES AND BRAMBLES
Apply 1 pint per acre

 COMMON NAME
 SPECIES
 GROWTH HABIT²

 Field bindweed
 Convolvulus arvensis
 P

 Hedge bindweed
 Calystegia sequium
 A

Apply 2-3 pints per acre¹

COMMON NAME	SPECIES	GROWTH HABIT ²
Wild buckwheat	Polygonum convolvulus	Р

Apply 3-4 pints per acre¹

COMMON NAME	SPECIES	GROWTH HABIT ²
Greenbriar	Smilax spp.	Р
Honeysuckle	Lonicera spp.	Р
Morningglory	Ipomoea spp.	A/P
Poison ivy	Rhus radicans	Р
Redvine	Brunnichia cirrhosa	Р
Wild rose, including:	Rosa spp.	Р
Multiflora rose	Rosa multiflora	P
McCartney rose	Rosa bracteata	Р

Apply 4-6 pints per acre¹

COMMON NAME	SPECIES	GROWTH HABIT ²
*Kudzu ³	Pueraria lobata	Р
Trumpetcreeper	Campsis radicans	P
Virginia creeper	Parthenocissus quinquefolia	Р
Wild grape	Vitis spp.	Р

BRUSH SPECIES

Apply 4-6 pints per acre¹ **GROWTH HABIT² COMMON NAME** SPECIES Р American beech Fagus grandifolia Fraxinius spp. P Ash Taxodium distichum Ρ Bald cypress Bigleaf maple Acer macrophylum P Black locust5 Robinia pseudoacacia P Black gum Nyssa sylvatica Р Acer negundo P Box elder P Cherry Prunus spp. Melia azadarach P Chinaberry P Cornus spp. Dogwood Elm⁶ Ulmus spp. P Р Hawthorn Crataegus spp. P Hickory Carya spp. Gleditsia triacanthos P Honeylocust⁵ Ρ Maple Acer spp.

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	P
Red Maple	- Acer rubrum	Р
Russian Olive	Eleagnus angustifolia	Р
Sassafras	Sassafras albidum	Р
Sourwood	Oxydendrum arboretum	P
Sweetgum	Liquidambar styraciflua	Р
*Water willow	Justica americana	Р
Willow	Salix spp.	P
Yellow poplar	Liriodendron tulipifera	Р

¹ Use the higher rates where heavy or well-established infestations occur.

ADJUVANTS

For optimal postemergence performance of Ecomazapyr 2SL, the addition of an adjuvant to the spray solution is essential to aid in the deposition and uptake of the herbicide. For this purpose, ONLY use spray adjuvants that are approved or appropriate for aquatic use.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

Nonionic Surfactants: Use a nonionic surfactant at 0.25% v/v or higher (depending on surfactant 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 HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 70% surfactant in the formulated product. Do not use alcohols, fatty acids, horticultural spray oils, ethylene glycol or diethylene glycol as surfactants to meet these requirements.

Methylated Seed Oils or Vegetable Oil Concentrates: Methylated seed oil or vegetable 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 vegetable oil concentrate at a rate of 1% of the total spray volume.

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

Invert emulsions: Ecomazapyr 2SL can be applied as an invert emulsion (water-in-oil emulsion) designed to minimize spray drift and spray run-off, thereby delivering more herbicide to the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Refer to the invert chemical label for proper mixing directions.

Other: Anti-foam agents, spray pattern indicators or drift reduction agents may also be used if necessary or desired. Refer to the adjuvant manufacturer's label for specific directions.

AQUATIC USES, PRECAUTIONS AND RESTRICTIONS

Ecomazapyr 2SL may ONLY be used for application to control undesirable emergent and floating aquatic vegetation in and around standing and flowing water, including estuarine and marine sites. Ecomazapyr 2SL may also be used to control undesirable vegetation growing in or around surface water in wetland, riparian and terrestrial habitats where applications may inadvertently contact surface water.

Do not apply more than 6 pints of product (1.5 pounds acid equivalent) per acre per year.

Aerial application is restricted to helicopter equipment only.

Ecomazapyr 2SL can only be applied 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.

Treatment of other-than-non-native, invasive species is limited to those that have been determined to be nuisance vegetation by a federal or state government entity.

Applications to private waters: Ecomazapyr 2SL may be applied to private non-flowing waters, such as ponds, lakes and drainage ditches where there is minimal or no outflow to public waters.

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

Use a minimum of 75 GPA - Control of established stands may require repeat applications.

For best results early postemergence applications are required.

⁵ Tank mix with glyphosate or triclopyr.

⁶ Tank-mix with glyphosate.

^{*}Not approved for use in California.

Applications to public waters: Ecomazapyr 2SL may be applied to public waters such as ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers and other slow-moving or non-moving waters for control of aquatic weeds or of riparian and wetland weed species.

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

Recreational Use of Water in Treated Areas: There are no restrictions on the use of water in treated areas for recreational purposes, including swimming and fishing.

Livestock Use of Water in/from Treated Areas:

There are no restrictions on livestock consumption of water from treated areas.

Precautions for Potable Water Intakes: Do not apply Ecomazapyr 2SL directly to waters 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 at least 48 hours after the treatment. Such aquatic applications may be made only where there are alternative water sources or holding ponds that can be used while active potable water intakes are turned off during the minimum 48 hours post-treatment period. NOTE: Existing potable water intakes which are no longer in use, such as those replaced by connections to wells or municipal water systems, are not considered to be active potable water intakes. This restriction does not apply to intermittent, inadvertent overspray of water in terrestrial use sites.

APPLICATION TO WATERS USED FOR IRRIGATION

Do not use water treated with Ecomazapyr 2SL for irrigation purposes for 120 days after treatment <u>or</u> until Ecomazapyr 2SL residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less.

Seasonal Irrigation Waters: Ecomazapyr 2SL may be applied during the off-season to surface waters that are used for irrigation on a seasonable basis, provided at least 120 days elapses between Ecomazapyr 2SL treatment and the first use of treated water for irrigation <u>or</u> until Ecomazapyr 2SL residue levels are determined by laboratory analysis, <u>or</u> other appropriate means of analysis, to be 1.0 ppb or less.

Irrigation Canals/Ditches: Do not apply Ecomazapyr 2SL to irrigation canals/ditches unless the 120-day restriction on irrigation water usage can be observed <u>or</u> Ecomazapyr 2SL residue levels are determined by laboratory analysis, <u>or</u> other appropriate means of analysis, to be 1.0 ppb or less. Do not apply Ecomazapyr 2SL to dry irrigation canals/ditches.

Quiescent or Slow Moving Waters: In lakes and reservoirs do not apply Ecomazapyr 2SL within one (1) mile of an active irrigation water intake during the irrigation season. Applications less than one (1) mile from an inactive irrigation water intake may be made during the off-season, provided the irrigation intake will remain inactive for at least 120 days after treatment or until Ecomazapyr 2SL residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less.

Moving Waters: Do not apply Ecomazapyr 2SL 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 treated water to completely flow past the irrigation intake. 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.

TANK MIXES

Ecomazapyr 2SL may be tank-mixed with other aquatic-use herbicides to broaden the spectrum of control of emergent and floating aquatic vegetation, provided that the tank mix product label does not prohibit such mixing. Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes.

AERIAL APPLICATIONS

Exercise all precautions to minimize or eliminate spray drift. Aerial applications may ONLY be made by helicopter; applications may NOT be made by airplane. Helicopters can be used to apply Ecomazapyr 2SL, however, do not apply by helicopter unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or where damage to desirable vegetation can be tolerated. Helicopters equipped with a Microfoil™ boom, Thru-Valve™ boom or raindrop nozzles must be used and calibrated. Unless applying with a Microfoil boom, use a drift control agent at the specified label rate. To avoid drift, do not make applications during inversion conditions, when winds are gusty, or during any other conditions that promote spray drift. Do not use side trimming with Ecomazapyr 2SL unless death of treated vegetation is acceptable.

Uniformly apply Ecomazapyr 2SL in 5 to 30 gallons of water per acre. Use a nonionic surfactant, methylated seed oil or silicone-based surfactant (see the **ADJUVANTS** section of this label for specific directions). An anti-foam agent may be added, if needed.

Thoroughly clean application equipment, including landing gear, 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 APPLICATIONS

FOLIAR APPLICATIONS:

For Low Volume Foliar Applications: Use equipment calibrated to deliver 5 to 20 gallons of spray solution per acre. Thoroughly mix 0.5 to 5% (v/v) Ecomazapyr 2SL in water plus surfactant (see the ADJUVANTS section of this label for directions). Use an anti-foam agent at the specified rate, if needed. For difficult to control species (see AQUATIC WEEDS CONTROLLED BY ECOMAZAPYR 2SL section and the ADDITIONAL WEEDS CONTROLLED BY ECOMAZAPYR 2SL section for relative susceptibility of weed species), apply the higher concentrations of herbicide and/or spray volumes but do not apply more than 6 pints of Ecomazapyr 2SL per acre. Do not excessively wet foliage. See the SPRAY SOLUTION MIXING GUIDE below for some suggested volumes of Ecomazapyr 2SL and water.

Select appropriate nozzles to avoid over-application. Proper application is critical to ensure desirable results. Optimum results are

achieved when the spray covers the crown and approximately 70 percent of the plant. The use of a flat fan nozzle tip with a spray angle of 40 degrees of less will aid in proper deposition.

Specific nozzle tip sizes include 4004E or 1504E. For a straight stream and cone pattern, use adjustable cone nozzles such as 5500 X3 or 5500 X4. Attaching a rollover valve onto a Spraying Systems Model 30 gunjet or other similar spray guns allows for the use of both a flat fan and cone tips on the same gun.

Moisten, but do not drench target vegetation. Do not spray to run off.

For Low Volume Foliar Applications by Backpacks: For low-growing species, spray downward to cover approximately 70% of the plant and the crown.

For target species 4 to 8 feet tall, apply a directed spray in a smooth vertical motion from the crown upward on at least two sides of the target vegetation, making sure to cover the crown whenever possible.

For target species over 8 feet tall, apply a directed spray in a smooth zig-zag motion from the crown upward on at least two sides of the target brush.

For Low Volume Foliar Applications with Hydraulic Handgun Equipment: Use same technique as described above for Low Volume with Backpacks.

For broadcast applications, simulate a gentle rain near the top of target vegetation, allowing spray to penetrate the target foliage and contact the crown without run-off onto understory vegetation. Do not spray to run-off. Herbicide spray that contacts understory vegetation may result in severe injury or death of understory plants.

Desired Concentration Amount of (fluid volume) spray solution 0.5% 0.75% 1.0% 1.5% 5.0% (amount of Ecomazapyr 2SL to use) 0.6 oz 0.9 oz 1.3 oz 1.9 oz 6.5 oz 1 gallon 2.8 oz 3.8 oz 5.8 oz 1.2 pint 3 gallons 1.9 oz 4 gallons 3.8 oz 5.1 oz 7.7 oz 1.6 pint 2.5 oz 5 gallons 4.8 oz 6.5 oz 9.6 oz 2 pints 3.2 oz 50 gallons 6 pints 2 pints 3 pints 4 pints 10 pints 100 gallons 6 pints 8 pints 4 pints 6 quarts 5 gallons

SPRAY SOLUTION MIXING GUIDE FOR LOW-VOLUME FOLIAR APPLICATIONS

2 tablespoons = 1 fluid ounce

For High Volume Foliar Applications: For optimum performance when spraying medium to high-density vegetation, use equipment calibrated to deliver up to 100 gallons of finished spray per acre (GPA). Application volumes exceeding 100 gallons GPA may result in excessive spray run-off, causing injury to desirable ground cover species. Thoroughly mix Ecomazapyr 2SL in water and include a surfactant (see ADJUVANTS section for surfactant specifications). Use an anti-foam agent according to its label, if needed. For hard-to-control species (see AQUATIC WEEDS CONTROLLED BY ECOMAZAPYR 2SL section and the ADDITIONAL WEEDS CONTROLLED BY ECOMAZAPYR 2SL section for relative susceptibility of weeds), use the higher concentrations of the herbicide and/or spray volumes, but do not apply more than 6 pints of Ecomazapyr 2SL per acre. Uniformly cover the foliage of the target vegetation but do not apply to run-off.

Side Trimming: Do not side trim with Ecomazapyr 2SL unless severe injury or death of the treated vegetation is acceptable. Ecomazapyr 2SL is readily translocated and can result in the death of the vegetation.

CUT SURFACE TREATMENTS

Ecomazapyr 2SL will control undesirable woody vegetation 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 solution causing run-off from the cut surface.

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.

CUT SURFACE APPLICATIONS WITH DILUTE AND CONCENTRATE SOLUTIONS:

Mix Ecomazapyr 2SL as either a concentrated or dilute solution for cut surface treatments. Apply dilute solutions to the cut 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 concentrated 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 8 to 12 fluid ounces of Ecomazapyr 2SL with one gallon of water. 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 tissues.

To prepare a concentrated solution, mix 2 quarts of Ecomazapyr 2SL with no more than 1 quart water.

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 just inside the bark of the stump).

For cut stem (injection, hack and squirt) treatments:

<u>Dilute Solutions</u>: 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.

<u>Concentrate Solutions</u>: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every 3 inches of Diameter at Breast Height (DBH) on the target tree. For example, a 3-inch DBH tree will receive 1 injection cut while a 6-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.

Frill or girdle treatments: Use a hatchet, machete or chainsaw to make cuts through the bark around the tree to expose the cambium.

The cuts must angle downward into the cambium sufficiently deep to expose at least two growth rings. Use a spray applicator or brush to apply a 25% to 100% solution of Ecomazapyr 2SL into each cut until thoroughly wet. Avoid applying so much herbicide that runoff to the ground or water occurs.

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 must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

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

Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in an approved sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container (greater than 55 gallons): 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. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

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Ecomazapyr 2SL (66222-168) (RED response 05-20-11) 066222-00168.20110520.Ecomazapyr2SLReregLabel