

34704-973

07/13/2011

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7504P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Registration
 Number:

 34704-973

Date of Issuance:

 JUL 13 2011

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance: **Unconditional**

Name of Pesticide Product:
LPI Imazapyr Pro VM & Aquatic Herbicide

Name and Address of Registrant (include ZIP Code):
 Loveland Products, Inc.
 P.O. Box 1286
 Greeley, CO 80632-1286

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 July 8, 2011. 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 Reregistration 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.

If you have any questions regarding this Notice, please contact Mindy Ondish at (703)605-0723 or at ondish.mindy@epa.gov.

Signature of Approving Official:

Kable Bo Davis
 Product Manager 25
 Herbicide Branch
 Registration Division (7505P)

Date:

JUL 13 2011



LPI Imazapyr Pro VM & Aquatic Herbicide

ACCEPTED

JUL 13 2011

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under
EPA Reg. No. 34704-973

2/11

LPI Imazapyr Pro VM & Aquatic Herbicide will control weeds, brush and undesirable aquatic vegetation in the following sites:

Non-Cropland Uses:		
Fence Rows	Wildlife Openings	Ditch Banks (non-irrigation only)
Industrial / Transportation Uses:		
Roads	Transmission Lines	Bareground areas
Storage areas	Tank Farms	Pumping Stations
Pipelines	Under paved surfaces	
Aquatic / Wetland Uses:		
Estuaries	Wetlands	Marine Environments
Riparian Zones	Vegetation in surface water	

NOTE: This product is **NOT** to be used on food crops or Christmas trees.

ACTIVE INGREDIENT:

Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*	28.7%
OTHER INGREDIENTS:	71.3%
TOTAL	100.0%

*Equivalent to 23.4% (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid per gallon.

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.)

**EPA REG. NO. 34704-973
EPA EST. NO. 34704-MS-001
NET CONTENTS 2½ GALS. (9.46 L)**

EXP 07/08

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: No human or domestic animal hazard statements are required. Follow instructions for Personal Protective Equipment and User Safety Recommendations. For a medical emergency involving this product call 1-866-944-8565. Have this product container or label with you when calling the poison control center or doctor, or going for treatment.

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 the 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 treatment 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, washwater, or rinsate. See Directions for Use for additional precautions and requirements.

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

This herbicide is phytotoxic at extremely low concentrations. Non-target plants may be adversely affected from drift.

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-resistant category selection chart.

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

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

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

Follow manufacturer's instructions for cleaning/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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands with plenty of soap and water 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.
- 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.

PHYSICAL OR CHEMICAL HAZARDS

Mix, store and apply spray solutions of LPI Imazapyr Pro VM & Aquatic Herbicide only in stainless steel, fiberglass, plastic and plastic-lined steel containers.

DO NOT mix, store or apply LPI Imazapyr Pro VM & Aquatic Herbicide or spray solutions of LPI Imazapyr Pro VM & Aquatic Herbicide 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.

The following methods of application may be used to apply LPI Imazapyr Pro VM & Aquatic Herbicide: Fixed-wing aircraft (for brush control ONLY); Helicopters; Ground operated sprayers; Backpack and pump sprayers and; Tree injection equipment

IMPORTANT NOTE REGARDING AERIAL APPLICATIONS: Applications using fixed-wing aircraft may be made for brush control applications ONLY. Aerial applications to all other use sites including aquatic sites must be made using a helicopter. All other aerial applications (including aerial applications to aquatic sites) must not be made using fixed-wing aircraft and must be made by HELICOPTER only.

ENTRY RESTRICTIONS:

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

USE PRECAUTIONS AND RESTRICTIONS

- Domestic use of this product is prohibited.
- Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.
- Do not apply this product to Christmas trees or to food crops.
- Do not make any applications of this product to flowing water that is one-half mile or less upstream of an active potable water intake.
- Do not make any applications of this product to standing water (such as lakes or reservoirs) that is one-half mile or less from an active potable water intake. See the Aquatic Applications section for specific instructions when making applications to water bodies.
- To help prevent accidental exposure of desirable vegetation to this product, do not allow this product to come into contact with seeds, fertilizers, insecticides, and fungicides.
- When flushing and draining equipment, do not allow rinsate to enter areas where sensitive or desirable plants or their roots may become exposed.
- Side trimming desirable vegetation with this product may cause severe injury or death of the treated plants.
- Prevent spray drift from coming in contact with desirable plants.
- To avoid spills and contamination, keep containers closed when not in use.
- Refer to the "Application to Waters Used for Irrigation" section of this label prior to treating irrigation ditches or water used for crop irrigation.
- The use of treated water on irrigated crops within 120 days of treatment is prohibited.

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

Specified Water Volumes:

The spray volume used should be sufficient to create an accurate and uniform spray pattern over the area to be treated while minimizing spray drift. The spray equipment used will ultimately determine the actual minimum spray volume per acre.

AERIAL APPLICATIONS:

Use 2 or more gallons of water per acre unless otherwise directed on this label.

GROUND APPLICATIONS (BROADCAST):

Use 5 or more gallons of water per acre unless otherwise directed on this label.

Aerial Application Restrictions:

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

Ground Boom Application Restrictions:

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval of 48 hours.

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

- Coveralls,
- Chemical-resistant gloves made of any waterproof material,
- Shoes plus socks,
- Protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

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

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

PRODUCT INFORMATION

LPI Imazapyr Pro VM & Aquatic Herbicide is an aqueous solution that is prepared by mixing with water and a surfactant and applied by spraying. Plants readily absorb the product through both foliage and roots resulting in the stoppage of growth of treated plants shortly after application followed by yellowing of leaves (chlorosis) starting with the youngest vegetation. Tissue damage and death may not be obvious until several weeks after application and brush and trees may not indicate the full effects of the herbicide until several months after application. LPI Imazapyr Pro VM & Aquatic Herbicide accumulates in the meristematic regions of a plant; it also translocates to the roots, which helps in preventing perennial species from resprouting.

This product controls many brush and vine species as well as most annual and perennial grasses and broadleaf weeds. LPI Imazapyr Pro VM & Aquatic Herbicide also provides residual control of labeled weeds that germinate in the treated areas. While this product is most effective when applied post-emergence (especially for established biennial and perennial species), pre-emergence applications can be made when necessary. For maximum effect, applications should be made when the vegetation is vigorously growing. Use of a surfactant will also enhance the efficacy of this product and research indicates that use of methylated seed oils or vegetable oil concentrates may improve the efficacy of LPI Imazapyr Pro VM & Aquatic Herbicide in plants under moisture and / or temperature stress; refer to the "Adjuvants" section below for specific information on using surfactants with LPI Imazapyr Pro VM & Aquatic Herbicide.

Applications of LPI Imazapyr Pro VM & Aquatic Herbicide are rainfast one hour after treatment.

Note Regarding Resistant Biotypes: Naturally occurring ALS/AHAS resistant biotypes of some weeds listed on this label may not be effectively controlled by LPI Imazapyr Pro VM & Aquatic Herbicide. If resistant biotypes are known to exist in the area to be treated, this product should be tank mixed or applied in addition to another herbicide with a different mode of action. Contact your local extension agent for information about resistant plants in your area.

PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Because LPI Imazapyr Pro VM & Aquatic Herbicide is absorbed by plants via their roots, desirable plants may be damaged or lost due to unintended root uptake from treated soil. To avoid injury to non-target plants, do not apply this product on or near desirable plants or to areas into which their roots may extend. Also, do not apply to soil that may be eroded or moved into contact with the roots of desirable plants.

Read and observe the directions in the Aquatic Applications section if aquatic sites are present in terrestrial noncrop areas and are part of the intended treatment area.

When applying in wet environments such as shorelines, plants with roots that may extend into the water are generally not affected by uptake of this product from the water.

Do not use vegetative matter that has been treated with this product as mulch or compost on or around desirable species.

The information that follows are instructions for managing and minimizing off-target exposure of this product. Specific use directions in this label may vary from these guidelines depending on the application method and objectives, and should supersede the information provided below.

Spray Drift: 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 entity authorizing spraying 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 outer most operating nozzles must not exceed $\frac{3}{4}$ the length of the rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

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

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 which increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, 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 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).

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.).

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.

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.

MANAGING SPRAY DRIFT FROM AERIAL APPLICATIONS: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length - the distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor, 2) nozzle orientation - nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height - without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use precautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

MIXING AND APPLICATION INSTRUCTIONS

HELICOPTER SPRAY

EQUIPMENT:

Preparation: Add the amount of LPI Imazapyr Pro VM & Aquatic Herbicide specified in this label for the intended use to 5 - 30 gallons of water per acre, mixing thoroughly.

Adjuvants: To increase efficacy, a compatible nonionic surfactant may be added to the spray solution.

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

Except when applying with a Microfoil™ boom, Thru-Valve™ Boom or other similar equipment, a drift control agent may be added.

If necessary, a foam reducing agent may also be added.

Application: Applications should not be made under windy or gusty conditions and all possible precautions should be taken in order to minimize or eliminate spray drift. Using a controlled droplet boom and nozzle configuration is recommended to assist in mitigating spray drift.

Be sure to maintain adequate buffer zones.

Precautions: Because uncoated steel (except stainless steel) surfaces that experience prolonged exposure to this product may corrode and eventually fail, thoroughly clean application and mixing equipment as well as portions of the aircraft that may have been exposed to the spray (including landing gear) immediately after use by flushing with water.

GROUND OPERATED SPRAY EQUIPMENT:

Preparation: Add the amount of LPI Imazapyr Pro VM & Aquatic Herbicide specified in this label for the intended use to 5 - 100 gallons of water per acre, mixing thoroughly.

Adjuvants: To increase efficacy, a compatible nonionic surfactant may be added to the spray solution.

Except when applying with a Microfoil™ boom, Thru-Valve™ Boom or other similar equipment, a drift control agent may be added.

A spray pattern indicator may be added if desired.
If necessary, a foam reducing agent may also be added.

Application: Uniformly cover the foliage of the vegetation to be controlled with the spray solution.

Applications should not be made under windy or gusty conditions and all possible precautions should be taken in order to minimize or eliminate spray drift.

Be sure to maintain adequate buffer zones.

Precautions: Because uncoated steel (except stainless steel) surfaces that experience prolonged exposure to this product may corrode and eventually fail, thoroughly clean application and mixing equipment immediately after use by flushing with water.

DIRECTED FOLIAR OR SPOT SPRAY EQUIPMENT:

Preparation: Unless otherwise directed on this label, create a 1 - 5 percent by volume solution of LPI Imazapyr Pro VM & Aquatic Herbicide in water using the table below:

SPRAY SOLUTION MIXING GUIDE

Solution Volume	Concentration			Surfactant
	1%	2.5%	5%	
1 gallon	1.3 oz.	3.25 oz.	6.5 oz.	1/3 oz.
3 gallons	3.8 oz.	9.5 oz.	1.2 pints	1 oz.
4 gallons	5.1 oz.	12.75 oz.	1.6 pints	1 1/4 oz.
5 gallons	6.5 oz.	1 pint	1 quart	1 2/3 oz.
10 gallons	13.0 oz.	1 quart	2 quarts	3 1/4 oz.
25 gallons	1 quart	2.5 quarts	1.25 gallons	8 oz.
50 gallons	2 quarts	1.25 gallons	2.5 gallons	1 pint
100 gallons	1 gallon	2.5 gallons	5 gallons	1 quart

% Solution	Amount LPI Imazapyr Pro VM & Aquatic Herbicide per Gallon of Mix	Amount LPI Imazapyr Pro VM & Aquatic Herbicide per 4 Gallon Backpack
0.5%	0.6 oz.	2.6 oz.
1.0%	1.3 oz.	5.1 oz.
1.5%	1.9 oz.	7.7 oz.
2.0%	2.6 oz.	10.2 oz.
2.5%	3.2 oz.	12.8 oz.
3.0%	3.8 oz.	15.4 oz.
5.0%	6.4 oz.	25.6 oz.

2 tablespoons = 1 fluid ounce

Adjuvants: A minimum of 1/4 percent by volume nonionic surfactant should be added to the spray solution using the last column of the above table.

A spray pattern indicator may be added if desired.

If necessary, a foam reducing agent may also be added.

Application: Uniformly cover the foliage of the vegetation to be controlled with the spray solution. For small brush, spray down on the crown to cover approximately 70% of the plant foliage. For larger brush, ensure coverage on as much of the crown as possible and spray at least two sides of the plant. Moisten, but do not drench target vegetation causing spray solution to run off.

Tips such as a 4004E or 1540E that produce an even, flat spray pattern with a spray angle of 40 degrees or less will help to produce ideal deposition on the vegetation. For a straight stream and cone pattern, adjustable cone nozzles such as the 5500 X3 or 5500 X4 may be used.

Applications should not be made under windy or gusty conditions and all possible precautions should be taken in order to minimize or eliminate spray drift.

Be sure to maintain adequate buffer zones.

Precautions: DO NOT exceed specified dosage rate per acre.

DO NOT apply to the point of runoff from the treated foliage.

Injury may occur to desirable conifers or other plant species if applications are made directly to those plants.

Because uncoated steel (except stainless steel) surfaces that experience prolonged exposure to this product may corrode and eventually fail, thoroughly clean application and mixing equipment immediately after use by flushing with water.

ADJUVANTS

When making postemergence applications of LPI Imazapyr Pro VM & Aquatic Herbicide, a spray adjuvant must be used.

NOTE: When applying to aquatic sites listed in this label, the adjuvant must be approved for aquatic uses.

Nonionic Surfactants: Add at a 0.25% v/v or higher rate of the spray solution as directed by the manufacturer (NOTE: 0.25% v/v is equivalent to 1 quart in 100 gallons). Nonionic surfactants that have a HLB (hydrophilic to lipophilic balance) ratio between 12 - 17 and a formulated product consisting of at least 70% surfactant will provide the best results.

Methylated Seed Oils or Vegetable Oil Concentrates: Methylated seed oil or vegetable-based seed oil concentrate may be used in place of a surfactant, and research indicates that use of these oils may improve the efficacy of LPI Imazapyr Pro VM & Aquatic Herbicide in plants under moisture and / or temperature stress. Use a rate of 1.5 to 2 pints per acre, or when using spray volumes greater than 30 gallons per acre use a rate of 1% of the total spray volume.

Silicone Based Surfactants: Silicon-based surfactants may cause greater spreading of droplets on the leaf surface than conventional nonionic surfactants, but may also dry more quickly limiting herbicide uptake. These surfactants should be used at the rates specified in the manufacturer's label.

Invert Emulsions: LPI Imazapyr Pro VM & Aquatic Herbicide can be applied as an invert (water-in-oil) spray emulsion that will minimize spray drift and spray run-off. The invert spray emulsion may be batch-mixed or injected (in-line mixing); consult the label of the invert chemical for instructions on mixing.

Fertilizer/Surfactant Blends: Nitrogen based liquid fertilizers may be used in combination with nonionic, methylated seed oil or vegetable oil concentrate surfactants. Tank mixing fertilizers without a surfactant is not advised. Apply at a rate of 2 - 3 pints per acre.

If desired, other adjuvants such as spray pattern indicators or additives for reducing foaming or spray drift may be added to the mix. See the label(s) of the respective product(s) for specific instructions and application rates.

WEEDS CONTROLLED

LPI Imazapyr Pro VM & Aquatic Herbicide controls the following weeds. Use the rates listed below for preemergence or postemergence control, as well as residual control of both Annuals and Perennials (listed under the "Life Cycle" column). For heavy or well established infestations, use the higher rates listed. These tables are based on broadcast treatments and in general, when making low-volume applications use the lower rates listed. Application rates listed are pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

GRASSES

Common Name	Scientific Name	Life Cycle	Application Rate (Pints / Acre)
Annual Bluegrass	<i>Poa annua</i>	A	2.0 - 3.0
Bahiagrass	<i>Paspalum notatum</i>	P	4.0 - 6.0
Barnyardgrass†	<i>Echinochloa crus-gali</i>	A	3.0 - 4.0
Beardgrass	<i>Andropogon</i> spp.	P	3.0 - 4.0
Bermudagrass†	<i>Cynodon dactylon</i>	P	4.0 - 6.0
Big bluestem	<i>Andropogon gerardii</i>	P	4.0 - 6.0
Bluegrass, Annual†	<i>Poa annua</i>	A	3.0 - 4.0
Broadleaf signalgrass	<i>Brachiaria platyphylla</i>	A	2.0 - 3.0
Bulrush	<i>Scirpus validus</i>	P	3.0 - 4.0
Canada bluegrass	<i>Poa compressa</i>	P	2.0 - 3.0
Cattail	<i>Typha</i> spp.	P	4.0 - 6.0
Cheat	<i>Bromus secalinus</i>	A	3.0 - 4.0
Coongrass	<i>Imperata cylindrica</i>	P	4.0 - 6.0
Crabgrass	<i>Digitaria</i> spp.	A	3.0 - 4.0
Crowfootgrass†	<i>Dactyloctenium aegyptium</i>	A	3.0 - 4.0
Dallisgrass	<i>Paspalum dilatatum</i>	P	4.0 - 6.0
Downy brome	<i>Bromus tectorum</i>	A	2.0 - 3.0
Fall panicum	<i>Panicum dichotomiflorum</i>	A	3.0 - 4.0
Feathertop	<i>Pennisetum villosum</i>	P	4.0 - 6.0
Fescue	<i>Festuca</i> spp.	A/P	2.0 - 3.0
Foxtail	<i>Setaria</i> spp.	A	2.0 - 3.0
Giant Reed	<i>Arundo donax</i>	A	3.0 - 4.0
Goosegrass	<i>Eleusine indica</i>	A	3.0 - 4.0
Guinea grass	<i>Panicum maximum</i>	P	4.0 - 6.0
Italian ryegrass	<i>Lolium multiflorum</i>	A	2.0 - 3.0
Itchgrass†	<i>Rottboellia exaltata</i>	A	3.0 - 4.0
Johnsongrass	<i>Sorghum halepense</i>	P	2.0 - 3.0
Junglerice†	<i>Echinochloa colonum</i>	A	3.0 - 4.0
Kentucky bluegrass	<i>Poa pratensis</i>	P	2.0 - 3.0
Lovegrass	<i>Eragrostis</i> spp.	A/P	2.0 - 3.0
Lovegrass†	<i>Eragrostis</i> spp.	A	3.0 - 4.0
Maidencane	<i>Panicum hemiltonom</i>	A	3.0 - 4.0
Napier grass	<i>Pennisetum purpureum</i>	P	2.0 - 3.0
Orchardgrass	<i>Dactylis glomerata</i>	P	2.0 - 3.0
Panicum, Browntop†	<i>Panicum fasciculatum</i>	A	3.0 - 4.0
Panicum Texas†	<i>Panicum texanum</i>	A	3.0 - 4.0
Paragrass	<i>Brachiaria mutica</i>	P	2.0 - 3.0
Phragmites	<i>Phragmites australis</i>	P	4.0 - 6.0
Prairie cordgrass	<i>Spartina pectinata</i>	P	4.0 - 6.0
Prairie threeawn	<i>Aristida oligantha</i>	P	3.0 - 4.0
Quackgrass	<i>Agropyron repens</i>	P	2.0 - 3.0

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

Grasses cont'd.:

Common Name	Scientific Name	Life Cycle	Application Rate (Pints / Acre)
Reed canarygrass	<i>Phalaris arundinacea</i>	P	3.0 - 4.0
Saltgrass†	<i>Distichlis stricta</i>	P	4.0 - 6.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	A	2.0 - 3.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	P	4.0 - 6.0
Sandbur	<i>Cenchrus spp.</i>	A	2.0 - 3.0
Sandbur, Field†	<i>Cenchrus incertus</i>	A	3.0 - 4.0
Signalgrass†	<i>Brachiaria platyphylla</i>	A	3.0 - 4.0
Smooth brome	<i>Bromus inermis</i>	P	2.0 - 3.0
Sprangletop†	<i>Leptochloa spp.</i>	A	4.0 - 6.0
Timothy	<i>Phleum pratense</i>	P	4.0 - 6.0
Torpedogras	<i>Panicum repens</i>	P	3.0 - 4.0
Vaseygrass	<i>Paspalum urvillei</i>	P	2.0 - 3.0
Wild barley	<i>Hordeum spp.</i>	A	3.0 - 4.0
Wild oats	<i>Avena fatua</i>	A	2.0 - 3.0
Wirestem muhly	<i>Muhlenbergia frondosa</i>	P	4.0 - 6.0
Witchgrass	<i>Panicum capillare</i>	A	2.0 - 3.0
Woolly Cupgrass†	<i>Eriochloa villosa</i>	A	3.0 - 4.0

BROADLEAF WEEDS

Common Name	Scientific Name	Life Cycle	Application Rate (Pints / Acre)
Alligatorweed	<i>Alternanthera philoxeroides</i>	A/P	2.0 - 3.0
Arrowhead	<i>Pluchea sericea</i>	A	4.0 - 6.0
Broom snakeweed ²	<i>Gutierrezia sarothrae</i>	P	3.0 - 4.0
Bull thistle	<i>Cirsium vulgare</i>	B	3.0 - 4.0
Burclover†	<i>Medicago spp.</i>	A	3.0 - 4.0
Burdock	<i>Arctium spp.</i>	B	2.0 - 3.0
Camphorweed	<i>Heterotheca subaxillaris</i>	P	2.0 - 3.0
Canada thistle	<i>Cirsium arvense</i>	P	4.0 - 6.0
Carolina geranium	<i>Geranium carolinianum</i>	A	2.0 - 3.0
Carpetweed	<i>Mollugo verticillata</i>	A	2.0 - 3.0
Chickweed, Mouseear†	<i>Cerastium vulgatum</i>	A	3.0 - 4.0
Clover	<i>Trifolium spp.</i>	A/P	2.0 - 3.0
Clover, Hop†	<i>Trifolium procumbens</i>	A	3.0 - 4.0
Cocklebur	<i>Xanthium strumarium</i>	A	3.0 - 4.0
Common chickweed	<i>Stellaria media</i>	A	2.0 - 3.0
Common ragweed	<i>Ambrosia artemisiifolia</i>	A	2.0 - 3.0
Cudweed†	<i>Gnaphalium spp.</i>	A	3.0 - 4.0
Dandelion	<i>Taraxacum officinale</i>	P	2.0 - 3.0
Desert Camelthorn	<i>Alhagi pseudalhagi</i>	P	3.0 - 4.0
Diffuse knapweed	<i>Centaurea diffusa</i>	A	3.0 - 4.0
Dock	<i>Rumex spp.</i>	P	3.0 - 4.0
Dogfennel	<i>Eupatorium capillifolium</i>	A	2.0 - 3.0
Fiddleneck†	<i>Amsinckia intermedia</i>	A	3.0 - 4.0
Filaree	<i>Erodium spp.</i>	A	2.0 - 3.0
Fleabane	<i>Erigeron spp.</i>	A	2.0 - 3.0
Giant ragweed	<i>Ambrosia trifida</i>	A	4.0 - 6.0
Goldenrod	<i>Solidago spp.</i>	P	3.0 - 4.0
Grey rabbitbrush	<i>Chrysothamnus nauseosus</i>	P	4.0 - 6.0
Henbit†	<i>Lamium alexicaule</i>	A	3.0 - 4.0
Hoary vervain	<i>Verbena stricta</i>	P	2.0 - 3.0
Horseweed	<i>Conyza canadensis</i>	A	2.0 - 3.0
Indian mustard	<i>Brassica juncea</i>	A	2.0 - 3.0
Japanese bamboo / knotweed	<i>Polygonum cuspidatum</i>	P	4.0 - 6.0
Knotweed, prostrate†	<i>Polygonum aviculare</i>	A/P	3.0 - 4.0
Kochia†	<i>Kochia scoparia</i>	A	2.0 - 3.0
Lambsquarters	<i>Chenopodium album</i>	A	2.0 - 3.0
Lespedeza	<i>Lespedeza spp.</i>	P	2.0 - 3.0
Little mallow	<i>Malva parviflora</i>	B	4.0 - 6.0
Milkweed	<i>Asclepias spp.</i>	P	4.0 - 6.0
Miners lettuce	<i>Montia perfoliata</i>	A	2.0 - 3.0
Mullein	<i>Verbascum spp.</i>	B	2.0 - 3.0
Nettleleaf goosefoot	<i>Chenopodium murale</i>	A	2.0 - 3.0
Oxeye daisy	<i>Chrysanthemum leucanthemum</i>	P	2.0 - 3.0
Pepperweed	<i>Lepidium spp.</i>	A	2.0 - 3.0
Pigweed	<i>Amaranthus spp.</i>	A	2.0 - 3.0
Plantain	<i>Plantago spp.</i>	P	2.0 - 3.0
Pokeweed	<i>Phytolacca Americana</i>	P	3.0 - 4.0
Primrose	<i>Oenothera kuntiana</i>	P	4.0 - 6.0
Puncturevine	<i>Tribulus terrestris</i>	P	2.0 - 3.0
Purple loosestrife ²	<i>Lythrum salicaria</i>	P	3.0 - 4.0
Purslane	<i>Portulaca spp.</i>	A	3.0 - 4.0
Pusley, Florida†	<i>Richardia scabra</i>	A	3.0 - 4.0
Rocket, London†	<i>Sisymbrium irio</i>	A	3.0 - 4.0
Rush skeletonweed ²	<i>Chondrilla juncea</i>	B	3.0 - 4.0
Russian knapweed	<i>Centaurea repens</i>	P	4.0 - 6.0
Russian thistle	<i>Salsola kali</i>	A	2.0 - 3.0
Saltbush	<i>Atriplex spp.</i>	A	3.0 - 4.0
Shepherd's-purse†	<i>Capsella bursa-pastoris</i>	A	3.0 - 4.0
Silverleaf nightshade	<i>Solanum elaeagnifolium</i>	P	4.0 - 6.0
Smartweed	<i>Polygonum spp.</i>	A/P	2.0 - 3.0
Sorrell	<i>Rumex spp.</i>	P	2.0 - 3.0
Sowthistle	<i>Sonchus spp.</i>	A	4.0 - 6.0
Spurge, Annual†	<i>Euphorbia spp.</i>	A	3.0 - 4.0
Stinging nettle ²	<i>Urtica dioica</i>	P	3.0 - 4.0
Sunflower	<i>Helianthus spp.</i>	A/B	2.0 - 3.0
Sweet clover	<i>Melilotus spp.</i>	A/B	2.0 - 3.0
Tansymustard	<i>Descurainia pinnate</i>	A	2.0 - 3.0
Texas thistle	<i>Cirsium texanum</i>	P	4.0 - 6.0
Velvetleaf†	<i>Abutilon theophrasti</i>	A	3.0 - 4.0
Western ragweed	<i>Ambrosia psilostachya</i>	P	2.0 - 3.0
Wild carrot	<i>Daucus carota</i>	B	2.0 - 3.0
Wild lettuce	<i>Lactuca spp.</i>	A/B	2.0 - 3.0
Wild parsnip	<i>Pastinaca sativa</i>	B	2.0 - 3.0
Wild turnip	<i>Brassica campestris</i>	B	2.0 - 3.0
Woollyleaf bursage	<i>Franseria tomentosa</i>	P	2.0 - 3.0

Broadleaf Weeds cont'd.:

Common Name	Scientific Name	Life Cycle	Application Rate (Pints / Acre)
Yellow starthistle	<i>Centaurea solistialis</i>	A	3.0 - 4.0
Yellow woodsorrel	<i>Oxalis stricta</i>	P	2.0 - 3.0

VINES AND BRAMBLES

Common Name	Scientific Name	Life Cycle	Application Rate (Pints / Acre)
Blackberry†	<i>Rubus spp.</i>	P	4.0 - 6.0
Dewberry†	<i>Rubus spp.</i>	P	4.0 - 6.0
Field bindweed	<i>Convolvulus arvensis</i>	P	1.0
Greenbriar	<i>Smilax spp.</i>	P	3.0 - 4.0
Hedge bindweed	<i>Calyptegia sequium</i>	A	1.0
Honeysuckle	<i>Lonicera spp.</i>	P	3.0 - 4.0
Kudzu†	<i>Pueraria lobata</i>	P	4.0 - 6.0
Morningglory	<i>Ipomoea spp.</i>	A/P	3.0 - 4.0
Poison ivy	<i>Rhus radicans</i>	P	3.0 - 4.0
Redvine	<i>Brunnichia cirrhosa</i>	P	3.0 - 4.0
Trumpet creeper	<i>Campsis radicans</i>	P	4.0 - 6.0
Virginia creeper	<i>Parthenocissus quinquefolia</i>	P	4.0 - 6.0
Wild buckwheat	<i>Polygonum convolvulus</i>	P	2.0 - 3.0
Wild grape	<i>Vitis spp.</i>	P	4.0 - 6.0
Wild rose	<i>Rosa spp.</i>	P	3.0 - 4.0

BRUSH

Common Name	Scientific Name	Life Cycle	Application Rate (Pints / Acre)
Black Locust ³	<i>Robinia pseudoacacia</i>	P	4.0 - 6.0
Blackgum	<i>Nyssa sylvatica</i>	P	4.0 - 6.0
Boxelder	<i>Acer negundo</i>	P	4.0 - 6.0
Brazilian peppertree	<i>Schinus terebinthifolius</i>	P	4.0 - 6.0
Cherry	<i>Prunus spp.</i>	P	4.0 - 6.0
Chinaberry	<i>Melia azadarach</i>	P	4.0 - 6.0
Chinese tallow-tree	<i>Sapium sebiferum</i>	P	4.0 - 6.0
Dogwood	<i>Cornus spp.</i>	P	4.0 - 6.0
Elm ⁴	<i>Ulmus spp.</i>	P	4.0 - 6.0
Hawthorn	<i>Crataegus spp.</i>	P	4.0 - 6.0
Hickory	<i>Carya spp.</i>	P	4.0 - 6.0
Honeylocust ⁵	<i>Gleditsia triacanthos</i>	P	4.0 - 6.0
Maple	<i>Acer spp.</i>	P	4.0 - 6.0
Melaleuca	<i>Melaleuca quiquenervia</i>	P	4.0 - 6.0
Mulberry	<i>Morus spp.</i>	P	4.0 - 6.0
Oak	<i>Quercus spp.</i>	P	4.0 - 6.0
Persimmon	<i>Diospyros virginiana</i>	P	4.0 - 6.0
Pine ⁶	<i>Pinus spp.</i>	P	4.0 - 6.0
Poplar	<i>Populus spp.</i>	P	4.0 - 6.0
Privet	<i>Ligustrum vulgare</i>	P	4.0 - 6.0
Red Alder	<i>Alnus rubra</i>	P	4.0 - 6.0
Red Maple	<i>Acer rubrum</i>	P	4.0 - 6.0
Rubber rabbitbrush	<i>Chrysothamnus nauseosus</i>	P	4.0 - 6.0
Russian Olive	<i>Eleagnus angustifolia</i>	P	4.0 - 6.0
Saltcedar	<i>Tamarix ramosissima</i>	P	4.0 - 6.0
Sassafras	<i>Sassafras albidum</i>	P	4.0 - 6.0
Sourwood	<i>Oxydendrum arboreum</i>	P	4.0 - 6.0
Sumac	<i>Rhus spp.</i>	P	4.0 - 6.0
Sweetgum	<i>Liquidambar styraciflua</i>	P	4.0 - 6.0
Water willow	<i>Justicia americana</i>	P	4.0 - 6.0
Willow	<i>Salix spp.</i>	P	4.0 - 6.0
Yellow poplar	<i>Liriodendron tulipifera</i>	P	4.0 - 6.0

† For preemergence control, tank-mix with Pendulum®

¹ Use a minimum of 75 GPA - Control of established stands may require repeat applications.

¹ For preemergence control, tank mix with Pendulum® or Karmex®.

² For best results, early postemergence applications are required.

³ Tank-mix with Roundup®, Accord®, Escort®, Krenite®, Garlon™ 3A, or Tordon™ K.

⁴ Tank-mix with Roundup®, Accord® or Escort®.

⁵ Tank-mix with Roundup®, Accord®, Garlon™ 3A, or Tordon™ K.

⁶ Tank-mix with Roundup®, Accord®, Krenite®, Garlon™ 3A, or Tordon™ K.

⁷ The degree of control is species dependent; some Rubus species may not be completely controlled.

NON-CROP SITES

PRODUCT INFORMATION

NOTE: DO NOT make applications of this product by fixed wing aircraft except for aerial applications for brush control. Refer to the BRUSH CONTROL section of this label for more information.

Apply at the rate of 4.0 to 6.0 pints product per acre for brush control. Refer to the WEEDS CONTROLLED section of this label for a list of species controlled by LPI Imazapyr Pro VM & Aquatic Herbicide. In addition to the species listed in the WEEDS CONTROLLED section, this product will also control the following woody brush and trees:

Common Name	Scientific Name
Alder	<i>Alnus spp.</i>
Aspen	<i>Populus spp.</i>
Australian pine ³	<i>Casuarina equisetifolia</i>
Autumn olive	<i>Elaeagnus umbellata</i>
Birch ¹	<i>Betula spp.</i>
Black oak	<i>Quercus kelloggii</i>
Ceanothis	<i>Ceanothis spp.</i>
Chinquapin ²	<i>Castanopsis chrysophylla</i>
Cottonwood	<i>Populus spp.</i>
Cypress	<i>Taxodium spp.</i>
Elderberry ³	<i>Sambucus spp.</i>
Eucalyptus	<i>Eucalyptus spp.</i>
Hazel ³	<i>Corylus cornuta</i>

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

Common Name	Scientific Name
Holly ^{1,2} Including:	Galberry (<i>Ilex glabra</i>) ^{2,3} Tail gallberry (<i>Ilex coriacea</i>) ² Yaupon (<i>Ilex vomitoria</i>) ² <i>Gaylussacia</i> spp.
Huckleberry <i>Lyonia</i> spp. Including:	Fetterbush (<i>Lyonia lucida</i>) Staggerbush (<i>Lyonia mariana</i>) <i>Arbutus menziesii</i> <i>Arctostaphylos patula</i> <i>Rhus diversiloba</i> <i>Populus scaberrima</i> <i>Cytisus scoparius</i> <i>Magnolia virginiana</i> <i>Platanus occidentalis</i> <i>Lithocarpus densiflorus</i>
Madrone Manzanita, greenleaf ² Poison oak Popcorn-tree Scotch broom ³ Sweetbay magnolia ^{2,3} Sycamore Tanoak ^{1,2,3} Titi ^{1,2} <i>Cyrilla racemiflora</i> Tree of heaven ³ <i>Vaccinium</i> spp. Including:	<i>Ailanthus altissima</i> Blueberry (<i>Vaccinium</i> spp.) Sparkleberry (<i>Vaccinium arboretum</i>) <i>Myrica californica</i> <i>Myrica cerifera</i>
Waxmyrtle ^{2,3}	

¹ Use the higher label rates for this species.

² An oil emulsion carrier is advised for this species.

³ Tank mix with Garlon™ 4 as a basal or stump treatment.

APPLICATION NOTES FOR WET SITES

Except in the states of California and New York, LPI Imazapyr Pro VM & Aquatic Herbicide can be applied to the following use sites:

With temporary surface water present:

- Areas between planting beds that have collected water
- Equipment ruts
- Depressions created by forest management activities

With no temporary surface water present:

- Drainage ditches
- Intermittent drainage
- Intermittently flooded low lying areas
- Seasonally dry flood plains
- Transitional areas between upland and lowland sites
- Marshes, swamps and bogs
- Seasonally dry flood deltas

NOTE: Only the edges of drainage ditches may be treated when water is present.

STUMP AND CUT STEM TREATMENTS

Undesirable woody vegetation may be controlled by applying LPI Imazapyr Pro VM & Aquatic Herbicide to the cambium of freshly cut stump surfaces using either a dilute solution or concentrate, or to cuts on the stems of target woody vegetation using a dilute solution. Concentrated solutions require fewer cuts on the stem while still remaining effective. For best results, stump and cut stem treatments should be done in summer and early fall and are least effective in the spring.

NOTE: Desirable woody plants may be injured or killed if they are grafted to the root system of the treated tree or they extend from the same root system as the treated tree.

APPLICATION WITH DILUTE SOLUTIONS

Preparation: Add 8-12 fluid ounces of LPI Imazapyr Pro VM & Aquatic Herbicide to one gallon of water, mixing thoroughly.

Adjuvants: To prevent freezing when applying in cold conditions, ethylene glycol antifreeze may be added according to the manufacturer's instructions.

A surfactant or penetrating agent may be used to improve uptake of the herbicide through cambiums that have become partially callused.

Application: Cut Stump Treatments - Cut the stump surface and then brush or spray the solution onto the exposed cambium in the cuts, making sure to thoroughly wet the entire cambium area.

Tree Injection Treatments - Making sure the injector completely penetrates the bark at each injection site, apply 1 milliliter of solution at each site. Use a one inch or smaller interval between injection sites completely around the trunk of the tree.

Frill or Girdle Treatments: Make cuts through the bark at no more than two inch intervals around the tree using a hatchet, machete, or similar device. Spray or brush the solution into each cut until thoroughly wet.

APPLICATION WITH CONCENTRATED SOLUTIONS

Preparation: Use 2 quarts of LPI Imazapyr Pro VM & Aquatic Herbicide with no more than 1 quart of water by volume for concentrated solution applications.

Adjuvants: To prevent freezing when applying in cold conditions, ethylene glycol antifreeze may be added according to the manufacturer's instructions.

A surfactant or penetrating agent may be used to improve uptake of the herbicide through cambiums that have become partially callused.

Application: Tree Injection Treatments - Making sure the injector completely penetrates the bark at each injection site, apply 1 milliliter of solution at each site. For best results, make one injection for every three inches of tree diameter at breast height (DBH) spacing the injections equally around the trunk.

Frill or Girdle Treatments: Make cuts through the bark at no more than two inch intervals around the tree using a hatchet, machete, or similar device. Spray or brush the solution into each cut until thoroughly wet.

Hack and Squirt Treatments: At equal intervals around the tree, make a downward-angled cut completely through the bark and cambium for every three inches of DBH using a hatchet or similar device. Then apply 1 milliliter of solution to each cut using a squirt bottle, syringe, or similar device, making sure that the solution does not run out of the cut.

THINLINE BASAL AND STEM APPLICATIONS AND LOW VOLUME BASAL BARK TREATMENTS

Applications of LPI Imazapyr Pro VM & Aquatic Herbicide will control susceptible species such as big leaf maple (*Acer macrophyllum*), willow (*Salix* spp.) and Eucalyptus (*Eucalyptus* spp.) with stem diameters of 4 inches or less. Application sites containing high stem densities and multiple, small (1/2 inch diameter or less) stems should be foliar treated with low volume backpack or fixed boom applications. See BRUSH CONTROL/GROUND APPLICATIONS/Low Volume section of this label.

THINLINE BASAL AND STEM APPLICATIONS

Use thinline basal and stem applications for susceptible woody species with a stem ground line diameter of 3 inches or less. For larger diameter stems, use the low volume basal bark treatment below.

Preparation: Mix 1.5 - 3.0 pints of LPI Imazapyr Pro VM & Aquatic Herbicide in one gallon of diesel oil or penetrating oil, stirring frequently to maintain a uniform mixture.

Application: Direct a thin line of the spray solution to the stems beginning a few feet from the ground and descending toward the base of the tree making a zig-zag motion.

Precautions: Do not over apply to the point of runoff resulting in puddling.

Injury may occur to desirable conifers or other plant species if applications are made directly to those plants.

LOW VOLUME BASAL BARK TREATMENTS

Use low volume basal bark treatments on stems up to 4 inches in diameter at breast height (DBH). LPI Imazapyr Pro VM & Aquatic Herbicide may be tank mixed with Garlon™ 4 or other basal products to broaden the spectrum of control. To prevent stump resprouting with small (1/2 inch diameter) stems, avoid application on sites that have been mowed prior to application.

Preparation: Mix 8-12 oz. of LPI Imazapyr Pro VM & Aquatic Herbicide in one gallon of diesel oil or penetrating oil, stirring frequently to maintain a uniform mixture.

Tank Mixes: To control black locust, honey locust, hackberry, elms and other species listed on manufacturer's labels, use 1.5 - 2.5% LPI Imazapyr Pro VM & Aquatic Herbicide mixed with 15 to 20% Garlon™ 4. A tank mix of 1.5% LPI Imazapyr Pro VM & Aquatic Herbicide and Garlon™ 4 is effective in the Northeastern U.S. Use the higher rate (2.5%) of LPI Imazapyr Pro VM & Aquatic Herbicide in areas containing sassafras, oak, hickory, cherry, and maples or in the southern portion of the U.S. This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

Application: Spray the lower 12 - 18 inches of the stem with the mixture (including the root-collar area) until wet.

Precautions: DO NOT over apply to the point of dripping or puddling.

Injury may occur to desirable conifers or other plant species if applications are made directly to those plants.

BRUSH CONTROL

When mixed with water and a surfactant, LPI Imazapyr Pro VM & Aquatic Herbicide may be applied as a spray solution for brush control in the following sites:

- Utility plant sites
- Pumping stations
- Storage areas
- Petroleum tank farms
- Railroad, utility, pipeline and highway rights-of-way
- Fence rows
- Non-irrigation ditchbanks

LPI Imazapyr Pro VM & Aquatic Herbicide may be applied to non-grazed or hayed areas within these sites, and may also be used to control brush in wildlife openings.

AERIAL APPLICATIONS:

NOTE: Aerial applications for brush control may be made by fixed wing aircraft. Be sure to read and follow the precautions below when using fixed wing aircraft.

Preparation: Add the amount of LPI Imazapyr Pro VM & Aquatic Herbicide specified in this label for the intended use to 5 - 30 gallons of water per acre, mixing thoroughly.

Adjuvants: To increase efficacy, a compatible nonionic surfactant or methylated seed oil should be added to the spray solution. See the Adjuvant section above for specific instructions.

Except when applying with a Microfoil™ boom, Thru-Valve™ Boom or other similar equipment, a drift control agent may be added.

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

If necessary, a foam reducing agent may also be added.

Application: Applications should not be made under windy or gusty conditions and all possible precautions should be taken in order to minimize or eliminate spray drift, refer to the Spray Drift section at the beginning of this label for more information. A calibrated controlled droplet boom and nozzle configuration is recommended to assist in mitigating spray drift.

Be sure to maintain adequate buffer zones.

Precautions: DO NOT make applications by fixed wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or, when treating open tracts of land, spray drift as a result of fixed wing aircraft application can be tolerated.

Because uncoated steel (except stainless steel) surfaces that experience prolonged exposure to this product may corrode and eventually fail, thoroughly clean application and mixing equipment as well as portions of the aircraft that may have been exposed to the spray (including landing gear) immediately after use by flushing with water.

Side trimming is not advised with LPI Imazapyr Pro VM & Aquatic Herbicide unless death of treated tree can be tolerated.

Treated areas may not be cut for hay less than 7 days after treatment.

GROUND APPLICATIONS:

See the instructions under Ground Operated Spray Equipment in the Mixing and Application Instructions section at the beginning of this label.

Specific Instructions for Ground Applications:

Preparation: Use 1.0 - 3.0 pints of LPI Imazapyr Pro VM & Aquatic Herbicide in tank mixtures when the roots of desirable trees may extend into rights-of-way corridors. Desirable trees may be damaged or die when their roots extend into treated zones and more than 3 pints per acre is applied.

Tank Mixes: To control black locust, honey locust, hackberry, elms and other species listed on manufacturer's labels, use a tank mix of 1.5 - 2.5% LPI Imazapyr Pro VM & Aquatic Herbicide with 15 - 20% Garlon™ 4 in basal oil. Use the higher rate of LPI Imazapyr Pro VM & Aquatic Herbicide in areas containing sassafras, oak, hickory, cherry, and maples or in the southern 2/3's of the U.S. The lower rates listed will be effective in the Northeastern U.S. This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

SPRAY SOLUTION MIXING GUIDE FOR LOW VOLUME FOLIAR APPLICATIONS

SPRAY SOLUTION VOLUME	DESIRED CONCENTRATION (fluid volume)			
	LPI Imazapyr Pro VM & Aquatic Herbicide		Garlon™ 4	
	1.5%	2.5%	15%	20%
1 gallon	1.9 oz.	3.2 oz.	19.2 oz.	25.6 oz.
3 gallons	5.7 oz.	9.6 oz.	57.6 oz.	76.8 oz.
4 gallons	7.7 oz.	12.8 oz.	76.8 oz.	102.4 oz.
5 gallons	9.6 oz.	16.0 oz.	96.0 oz.	1.0 gallon
50 gallons	0.75 gallons	1.25 gallons	7.5 gallons	10.0 gallons
100 gallons	1.5 gallons	2.5 gallons	15.0 gallons	20.0 gallons

Precautions: DO NOT side trim with LPI Imazapyr Pro VM & Aquatic Herbicide unless severe injury or death of the treated tree can be tolerated. LPI Imazapyr Pro VM & Aquatic Herbicide is readily translocated and can result in death of the entire tree.

Specific Instructions for Low Volume Applications:

See the instructions under Directed Foliar or Spot Spray Equipment in the Mixing and Application Instructions section at the beginning of this label.

Preparation: To prepare the spray solution, thoroughly mix in water 0.5% to 5.0% LPI Imazapyr Pro VM & Aquatic Herbicide plus surfactant (See the ADJUVANT section above for specific instructions).

For difficult to control brush species, use the higher concentrations of herbicide and/or spray volumes. Consult the WEEDS CONTROLLED section above for specific instructions.

For improved control, LPI Imazapyr Pro VM & Aquatic Herbicide may be tank mixed with other products, consult the Suggested Tank-Mixes and Application Rates table below.

Adjuvants: If necessary, a foam reducing agent may also be added.

Application: Use equipment calibrated to deliver 5 to 20 gallons of spray solution per acre. When applying to brush up to 4 feet tall, spray down on the crown covering the crown and penetrating approximately 70% of the plant.

When applying to brush 4 - 8 feet tall, apply to at least two sides of the plant by spraying the plant in smooth vertical motions from the crown to the bottom. For best results, be sure to cover the crown of the plant.

When applying to brush over 8 feet tall, spray at least two sides of the brush using a smooth zigzag pattern from crown to bottom.

When making a broadcast application, spray the crown in a manner that simulates a gentle rain, allowing the spray to penetrate the target foliage but without falling to the understory. Severe injury or death of plants in the understory may result from contact with the spray solution.

Precautions: DO NOT side trim with LPI Imazapyr Pro VM & Aquatic Herbicide unless severe injury or death of the treated tree can be tolerated. LPI Imazapyr Pro VM & Aquatic Herbicide is readily translocated and can result in death of the entire tree.

DO NOT apply more than 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

Excessive wetting of foliage is not advised.

LOW-VOLUME TANK-MIXES AND APPLICATION RATES

Target Vegetation	Rate of LPI Imazapyr Pro VM & Aquatic Herbicide	Tank Mix
Mixed hardwoods without elm, locust, or pine	1.0-1.5% by volume	Surfactant
Mixed hardwoods containing elm, locust, and pine	0.5-1.0% by volume	Accord® at 2-3% by volume plus surfactant
Mixed hardwoods with locust and pine but no elm	0.5-1.0% by volume	Krenite® at 2-5% by volume plus surfactant
Mixed hardwoods with locust and elm but no pine	0.5-1.0% by volume	Escort® at 2 oz./Acre or 2.3 grams/gal. plus surfactant

NOTE: LPI Imazapyr Pro VM & Aquatic Herbicide has been found to be LESS effective in tank mixes with 2,4-D or products containing 2,4-D.

Specific Instructions for High Volume Applications:

See the instructions under Ground Operated Spray Equipment in the Mixing and Application Instructions section at the beginning of this label.

Preparation: Mix 2 - 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre in water and add a surfactant (see ADJUVANT section of this label for specific instructions and rates of surfactants).

For difficult to control brush species, use the higher concentrations of herbicide and/or spray volumes. Consult the WEEDS CONTROLLED section above for specific instructions.

Adjuvants: If necessary, a foam reducing agent may also be added.

Tank Mixes: To provide control of species tolerant to LPI Imazapyr Pro VM & Aquatic Herbicide, tank mixes with Accord®, Roundup®, Krenite®, Escort®, Telar®, Tordon™ K, Garlon™ 3A, Banvel® and Vanquish® may be used. This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

NOTE: LPI Imazapyr Pro VM & Aquatic Herbicide has been found to be LESS effective in tank mixes with 2,4-D or products containing 2,4-D.

Application: For best results on medium to high density brush, use equipment calibrated to deliver up to 100 gallons of spray solution per acre (GPA).

Spray the foliage of the vegetation to be controlled in a uniform manner being sure NOT to apply to the point of run-off.

Precautions: DO NOT side trim with LPI Imazapyr Pro VM & Aquatic Herbicide unless severe injury or death of the treated tree can be tolerated. LPI Imazapyr Pro VM & Aquatic Herbicide is readily translocated and can result in death of the entire tree.

DO NOT apply more than 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

Excessive wetting of foliage is not advised.

INVERT EMULSIONS:

In order to minimize spray drift and run-off, LPI Imazapyr Pro VM & Aquatic Herbicide may be applied as an invert emulsion carrier when making applications to brush. The spray emulsion may be batch-mixed in a single tank or injected (in-line mixing). For mixing directions, refer to the invert chemical label.

CONTROL OF WEEDS UNDER PAVED SURFACES

In industrial sites or where pavement has a barrier along the perimeter that prevents roots of desirable plants from encroaching into application areas, LPI Imazapyr Pro VM & Aquatic Herbicide may be used under asphalt, pond liners and other paved areas to control weeds.

Do not use this product under paved areas such as driveways or parking lots on residential properties, nor in recreational areas such as under bike or jogging paths, golf cart paths, tennis courts, or anywhere landscape plantings might occur in the future. Desirable plants may be injured or killed if this product is applied where their roots are present, and the roots of trees and shrubs may extend beyond the drip line of the plant (the outer edges of the branch extremities).

Preparation: Mix in a tank using a rate of 6 pints (2.2 fl. oz. per 1,000 ft.²) of LPI Imazapyr Pro VM & Aquatic Herbicide to at least 100 gallons of water per acre. Create sufficient spray solution to ensure complete and uniform coverage of the entire area to be paved, including shoulder areas.

Application: Use equipment calibrated to deliver at least 100 gallons of spray solution per acre (GPA).

LPI Imazapyr Pro VM & Aquatic Herbicide may need to be incorporated into the soil if the soil is not moist prior to application in order to activate the herbicide. Incorporation may be accomplished by using a rototiller or disc to a depth of 4 - 6 inches, or 1 inch of irrigation may be used. If irrigating, do not allow treated soil to wash or move into untreated areas.

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

Precautions: LPI Imazapyr Pro VM & Aquatic Herbicide application sites should be paved over as soon as possible after application.

DO NOT apply where the chemical may contact the roots of desirable trees or other plants.
DO NOT apply more than 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

All tubers, rhizomes, stolons and other vegetative plant parts that are present in the site should be scalped to a depth that assures their removal using a grader blade or similar technique.

Applications should be made to the soil surface only when final grade is established. Do not move soil following LPI Imazapyr Pro VM & Aquatic Herbicide application.

CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED BURMUDAGRASS AND BAHIA-GRASS

LPI Imazapyr Pro VM & Aquatic Herbicide may be used in non-cropland industrial sites, roadsides and utility rights-of-way to release unimproved bahiagrass and bermudagrass from competition with broadleaf weeds and grasses listed in the WEEDS CONTROLLED section above. LPI Imazapyr Pro VM & Aquatic Herbicide applications to bermudagrass will cause seedhead inhibition and a compacted growth habit.

WEEDS CONTROLLED

Common Name	Scientific Name
Bedstraw	<i>Galium</i> spp.
Bishopweed	<i>Ptilimnium capillaceum</i>
Buttercup	<i>Ranunculus parviflorus</i>
Carolina geranium	<i>Geranium carolinianum</i>
Fescue	<i>Festuca</i> spp.
Foxtail	<i>Setaria</i> spp.
Little barley	<i>Hordeum pusillum</i>
Seedling Johnsongrass	<i>Sorghum halepense</i>
Wild carrot	<i>Daucus carota</i>
White clover	<i>Trifolium repens</i>
Yellow woodsorrel	<i>Oxalis stricta</i>

Preparation: Bermudagrass - Mix 6-12 oz. of LPI Imazapyr Pro VM & Aquatic Herbicide per acre when grass is dormant, or 3-4 oz. per acre once the grass has reached full green-up. A surfactant should be used in the spray solution, but should NOT be used at a rate higher than 1 oz. / 25 gallons of spray solution.

Bahiagrass - Mix 4-8 oz. of LPI Imazapyr Pro VM & Aquatic Herbicide per acre when grass is dormant or after the grass has initiated green-up but has not exceeded 25% green-up. A surfactant should be used in the spray solution (refer to the ADJUVANT section of this label for specific instructions on surfactants).

Tank Mixes: Pendulum® herbicide may be added at the rate of 3.3-6.6 lbs. per acre for additional pre-emergence control of annual grasses and small seeded broadleaf weeds. Refer to the Pendulum® herbicide label for weeds controlled and other use directions and precautions.

To control johnsongrass in bermudagrass turf, use 8 oz. of LPI Imazapyr Pro VM & Aquatic Herbicide with 12 oz. of Roundup® per acre and a surfactant.

For additional control of broadleaves and vines, 1-2 pints of Garlon™ 3A per acre may be added to the LPI Imazapyr Pro VM & Aquatic Herbicide / Roundup® mix described above.

This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

NOTE: LPI Imazapyr Pro VM & Aquatic Herbicide has been found to be LESS effective in tank mixes with 2,4-D or products containing 2,4-D.

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

Precautions: 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.
Applications made during green-up will delay green-up.
Temporary yellowing of grass may occur when treatment is made after regrowth commences.

GRASS GROWTH AND SEEDHEAD SUPPRESSION

In unimproved areas, LPI Imazapyr Pro VM & Aquatic Herbicide may be used to suppress seedhead development and growth of certain types of turfgrass.

Preparation: Bermudagrass - Mix 6-8 oz. of LPI Imazapyr Pro VM & Aquatic Herbicide with at least 10 gallons of water per acre. Do NOT add a surfactant to this mix.

Cool-Season Unimproved Turf - Mix 2 oz. of LPI Imazapyr Pro VM & Aquatic Herbicide per acre with 0.25% non-ionic surfactant (refer to the ADJUVANT section of this label for specific instructions on surfactants).

Tank Mixes: For increased suppression of cool-season unimproved turf, LPI Imazapyr Pro VM & Aquatic Herbicide may be tank-mixed with products such as Campaign® at a rate of 24 oz. or Embark® at a rate of 8 oz. per acre. This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

Application: Apply uniformly with properly calibrated ground equipment using a spray pressure of 20 to 50 psi.

Apply to Bermudagrass from early green-up until just before seed head initiation.

For optimum performance, application should be made prior to culm elongation.

For applications made prior to mowing, allow at least three days of active growth before mowing.

For applications made after mowing, allow sufficient time for the grasses to recover before applying this product or injury may be increased.

Precautions: 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. LPI Imazapyr Pro VM & Aquatic Herbicide may result in temporary turf damage and/or discoloration when applied to desirable turf, with effects dependent upon environmental conditions.

Tank mixes may increase injury to desired turf. Consult each product label for turf species and other use directions and precautions.

Applications made during green-up will delay green-up.

Temporary yellowing of grass may occur when treatment is made after regrowth commences.

TOTAL VEGETATION CONTROL WHERE BAREGROUND IS DESIRED

Where bareground is desired, LPI Imazapyr Pro VM & Aquatic Herbicide provides effective preemergence or postemergence control of many annual and perennial broadleaf and grass weeds, and is particularly effective on hard-to-control perennial grasses.

Preparation: Mix 1.5-6 pints LPI Imazapyr Pro VM & Aquatic Herbicide per acre with water as per the instructions in the MIXING AND APPLICATION INSTRUCTIONS at the beginning of this label.

For best results on resistant or difficult to control annual grasses, applications with a total volume of 100 gallons per acre or less should be used.

For difficult to control brush species, use the higher concentrations of herbicide and/or spray volumes. Consult the WEEDS CONTROLLED section above for specific instructions.

Adjuvants: Always use a spray adjuvant when making a postemergence application. Refer to the ADJUVANT section of this label for specific instructions.

Tank Mixes: To provide control of species tolerant to LPI Imazapyr Pro VM & Aquatic Herbicide, tank mixes with Roundup®, Finale®, MSMA, Diuron, Karmex®, Pendulum®, Simazine, Banvel®, Vanquish®, or Oust® herbicides may be used. The degree and duration of control are dependent on the rate of LPI Imazapyr Pro VM & Aquatic Herbicide used, the tank mix partner(s), the volume of carrier used, and environmental factors such as rainfall, soil properties, etc.

Tank-Mix Instructions for Bareground Sites

LPI Imazapyr Pro VM & Aquatic Herbicide (pints / acre)	Pendulum® WDG (lbs. / acre)	Pendulum® 3.3 EC (quarts / acre)	Diuron (lbs. a.i. / acre)
1.5-3.0	6.6	4.8	4-6
2.0-4.0	6.6	4.8	6-10
3.0-6.0	6.6	4.8	8-12

Use higher rates for fall applications, in areas that have not been previously treated, or that have heavy infestations.

For quicker burndown or brown-out of targeted weeds, LPI Imazapyr Pro VM & Aquatic Herbicide may be tank mixed with products such as Roundup®, Finale®, or MSMA.

This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

NOTE: LPI Imazapyr Pro VM & Aquatic Herbicide has been found to be LESS effective in tank mixes with 2,4-D or products containing 2,4-D.

Application: Refer to the MIXING AND APPLICATION INSTRUCTIONS in the GENERAL INFORMATION section at the beginning of this label for directions pertaining to your desired method of application.

Applications of LPI Imazapyr Pro VM & Aquatic Herbicide may be made anytime of the year.

Precautions: DO NOT apply more than 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

Spot Treatments: LPI Imazapyr Pro VM & Aquatic Herbicide may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation.

Preparation: Mix 0.5-5.0% LPI Imazapyr Pro VM & Aquatic Herbicide per gallon of water as per the instructions in the MIXING AND APPLICATION INSTRUCTIONS at the beginning of this label.

For difficult to control brush species, use the higher concentrations of herbicide and/or spray volumes. Consult the WEEDS CONTROLLED section for specific instructions.

Adjuvants: Always use a spray adjuvant when making a postemergence application. Refer to the ADJUVANT section of this label for specific instructions.

Tank Mixes: To improve residual weed control and expand the number of weeds controlled, tank mixes with Pendulum® or Diuron herbicides may be used.

For quicker burndown or brown-out of targeted weeds, LPI Imazapyr Pro VM & Aquatic Herbicide may be tank mixed with products such as Roundup®, Finale®, or MSMA.

8/11

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE

EPA REG. NO. 34704-973

This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

NOTE: LPI Imazapyr Pro VM & Aquatic Herbicide has been found to be LESS effective in tank mixes with 2,4-D or products containing 2,4-D.

Application: Refer to the MIXING AND APPLICATION INSTRUCTIONS in the PRODUCT INFORMATION section at the beginning of this label for directions pertaining to your desired method of application.

Applications of LPI Imazapyr Pro VM & Aquatic Herbicide may be made anytime of the year.

Precautions: DO NOT apply more than 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

AQUATIC APPLICATIONS

Aquatic applications may be made in and around standing and flowing water for control of floating and emergent aquatic vegetation or terrestrial vegetation growing in or around surface water. They types of water bodies that may be treated are:

- Marine Water Bodies
- Wetlands
- Marshes / Bayous / Wetlands
- Streams / Rivers
- Estuaries
- Ponds / Lakes / Reservoirs
- Drainage Ditches / Canals
- Other slow-moving or still water bodies

In cases where there is minimal or no outflow to public water bodies, LPI Imazapyr Pro VM & Aquatic Herbicide can be applied to private waters that are still, such as ponds, lakes and drainage ditches.

LPI Imazapyr Pro VM & Aquatic Herbicide does not control plants that are completely submerged or have a majority of their foliage under water.

AQUATIC USE PRECAUTIONS AND RESTRICTIONS

Applications may only be made by licensed or certified applicators making applications for programs sponsored by federal or state government agencies such as Water Management Districts, Municipal Authorities or the U.S. Army Corps of Engineers.

Permits may be required to treat public water bodies; consult your local state fish and game agency and water control authorities before making applications of LPI Imazapyr Pro VM & Aquatic Herbicide to public water.

Only invasive plants or plants determined to be a nuisance by a federal or state governmental agency may be treated. DO NOT apply to water bodies or portions of water bodies where emergent and/or floating weeds do not exist.

DO NOT apply more than 6 pints of product (1.5 lbs acid equivalent) per acre per year.

Aerial application may be made **only** by helicopter.

Precautions for Potable Water Intakes:

LPI Imazapyr Pro VM & Aquatic Herbicide may NOT be applied directly to water within one-half mile upstream of an active potable water intake in flowing water bodies such as rivers or streams.

LPI Imazapyr Pro VM & Aquatic Herbicide may NOT be applied within one-half mile of an active potable water intake in a standing water body such as a reservoir, lake or pond.

If aquatic applications within one-half mile of active potable water intakes need to be made, the water intake must be turned off during application and for a minimum of 48 hours after the application. This type of application may only be made if there are alternative water sources or holding ponds that permit an active potable water intake to be turned off for a minimum of 48 hours after the applications.

Note: Existing potable water intakes that 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 overspray of water in terrestrial use sites.

Restrictions for Irrigation Water:

Any water treated with LPI Imazapyr Pro VM & Aquatic Herbicide must not be used for irrigation purposes for 120 days after application or until residue levels are determined by laboratory analysis to be 1.0 ppb or less.

Apply LPI Imazapyr Pro VM & Aquatic Herbicide to irrigation canals or ditches ONLY if the above restriction can be observed.

DO NOT apply LPI Imazapyr Pro VM & Aquatic Herbicide within one mile of an active irrigation water intake in lakes or reservoirs during the irrigation season. Applications closer than one mile from an inactive irrigation water intake may be made during the off-season, provided that the above restriction can be observed.

DO NOT apply LPI Imazapyr Pro VM & Aquatic Herbicide within one-half mile downstream of an active irrigation water intake. If making applications upstream of an active irrigation water intake, the intake must be turned off until the treated water upstream has flowed completely past the irrigation intake.

9/11
Before applying LPI Imazapyr Pro VM & Aquatic Herbicide upstream of an active irrigation water intake, consult your local, state and/or federal authorities.

INSTRUCTIONS FOR AQUATIC APPLICATIONS

LPI Imazapyr Pro VM & Aquatic Herbicide has little to no effect on submerged aquatic vegetation and must be applied to the emergent foliage of the target vegetation. In general, applications should be made in a manner that maximizes spray interception by the target vegetation and minimizes overspray into the water. LPI Imazapyr Pro VM & Aquatic Herbicide may be applied as a draw down treatment in areas described above by applying to weeds after water has been drained and then allowing 14 days before reintroducing water to the drained area.

- For best results, weeds should be growing vigorously at the time of application and the spray solution should include a surfactant (see the ADJUVANTS section of this label for specific instructions).
- Aquatic applications of LPI Imazapyr Pro VM & Aquatic Herbicide should be made in a minimum of 5 gallons of water per acre using surface or helicopter application equipment.
- To prevent concentration of this herbicide in water, applications to moving bodies of water should be made while traveling upstream.
- 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.
- To allow fish to move into untreated areas, begin applications along the shore and proceed outwards in bands.
- Because oxygen depletion due to decaying vegetation may result in the suffocation of some sensitive fish species, when the target vegetation covers a large percentage of the surface area of a slow or non-flowing water body, the area should be treated in strips.
- For one hour after application, avoid wash-off of sprayed foliage by spray boat or recreational boat backwash.

AQUATIC AERIAL APPLICATIONS

Refer to the MIXING AND APPLICATION INSTRUCTIONS section for information regarding aerial applications of LPI Imazapyr Pro VM & Aquatic Herbicide.

Refer to the PRECAUTION FOR AVOIDING INJURY TO NON-TARGET PLANTS section for guidance in minimizing unwanted exposure to non-target plants when making aerial applications.

NOTE: Aerial applications may be made **only** by helicopter.

Preparation: Mix LPI Imazapyr Pro VM & Aquatic Herbicide for the intended use as per the instructions in the AQUATIC PESTS CONTROLLED tables below.

Adjuvants: For best results, a nonionic or silicon based surfactant or methylated seed oil should be added, refer to the ADJUVANT section of this label for specific instructions).

If needed, a foam reducing agent may be added.

Tank Mixes: To enhance the spectrum or control of emergent and floating aquatic vegetation, LPI Imazapyr Pro VM & Aquatic Herbicide may be tank mixed with other aquatic use herbicides. Always follow the more restrictive label when making an application involving tank mixes. This product may be tank-mixed with products listed provided the tank-mixed product is registered for use on this (these sites). Follow the more restrictive use directions, precautions, and limitations on the labels of the products in the tank mix.

Application: Uniformly apply the specified amount of LPI Imazapyr Pro VM & Aquatic Herbicide in 5 to 30 gallons of water per acre following the instructions for aerial applications in the MIXING AND APPLICATION INSTRUCTIONS section at the beginning of this label.

Precautions: DO NOT make applications by helicopter unless appropriate buffer zones to prevent spray drift out of the target area can be maintained, or when spray drift damage as a result of helicopter application can be tolerated.

Application equipment, including landing gear must be thoroughly cleaned immediately after use of this product. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part. The maintenance of an organic coating (paint) may prevent corrosion.

AQUATIC GROUND APPLICATIONS

LPI Imazapyr Pro VM & Aquatic Herbicide may be applied using any of the ground application methods described in the MIXING AND APPLICATION INSTRUCTIONS section at the beginning of this label.

Refer to the AQUATIC SITES CONTROLLED tables below for specified use rates and species specific instructions.

GROUND APPLICATION PRECAUTIONS:

- DO NOT apply more than 6 pints of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.
- When making applications do not apply to the point of run off of spray solution from the target vegetation.

AQUATIC PESTS CONTROLLED

LPI Imazapyr Pro VM & Aquatic Herbicide will control the following target species as specified in the APPLICATION RATE section of the table. Rate instructions are expressed in terms of 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 1.5 quarts of LPI Imazapyr Pro VM & Aquatic Herbicide per acre.

LPI IMAZAPYR PRO VM & AQUATIC HERBICIDE
EPA REG. NO. 34704-973

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 DISPOSAL: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrcycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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.

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 packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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 packages greater than 56 gallons: 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 refillable containers: Refill this container with pesticide 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 help with any spill, leak, fire or exposure involving this material call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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11/71
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