

# RM43-2

GLUFOSINATE	GROUP	10	HERBICIDE
IMAZAPYR	GROUP	2	HERBICIDE

**Glufosinate + Imazapyr**

## FOR NONSELECTIVE WEED CONTROL OF WEEDS IN NONCROP AREAS

- Use for total vegetation control (bareground) and spot or directed applications
- Makes up to 16 gallons of spray solution for spot or directed applications
- For use on listed broadleaf weeds, grasses, sedges, and woody species\*
- Retreatment every 6 to 8 months may be necessary in areas of heavy rainfall
- DO NOT apply over the root systems of desirable plants. For trees and shrubs do not apply closer than twice the distance from the trunk to the drip line as roots may be within this area

*\*Not for use on woody species in California*

**NET CONTENTS: ½ GAL / 64 FL OZ / 1.89 L**

### ACTIVE INGREDIENT:

Glufosinate, ammonium ..... 11.33%

Imazapyr, isopropylamine salt ..... 1.10%

**OTHER INGREDIENTS:..... 87.57%**

**TOTAL: ..... 100.00%**

Equivalent to 1 lb. of glufosinate active ingredient and 0.1 lb. of imazapyr acid active ingredient per U.S. gallon.

EPA Reg. No. 84009-36 EPA Est. No. 084840-LA-001

## 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.)

**See Inside Booklet for Precautionary Statements,  
First Aid, Directions for Use and Storage and Disposal.**

Manufactured For:

**Ragan and Massey, LLC.**

101 Ponchatoula Pkwy., Ponchatoula, LA 70454

(800) 264-5281, info@raganandmassey.com

RM43® is a registered trademark of Tangi-Pac, L.L.C.

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### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product call your poison control center at 1-800-222-1222.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

EPA Reg. No. 84009-36      EPA Est. No. 084840-LA-001

**See Inside Booklet for Complete Precautionary Statements,  
Directions for Use and Storage and Disposal.**

Manufactured For:  
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## PERSONAL PROTECTIVE EQUIPMENT (PPE)

### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton<sup>®</sup>  $\geq 14$  mils
- Shoes plus socks
- Protective eyewear

### USER SAFETY REQUIREMENTS

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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.

### USER SAFETY RECOMMENDATIONS

#### Users should:

- 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.

### 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 directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Glufosinate-ammonium and its degradates have those properties normally associated with pesticides that have been detected in groundwater. Use of this product in areas with coarse soils and high water tables may result in groundwater contamination.

### PHYSICAL OR CHEMICAL HAZARDS

**DO NOT** mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

### DIRECTIONS FOR USE

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

**DO NOT** use this product until you have read the entire label. **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.

## **USE RESTRICTIONS**

- In the State of New York only: Not for use in Nassau and Suffolk Counties.
- Keep people and pets out of the area during application.
- **DO NOT** use on feed or food crops.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply near bodies of water including fish pools, ponds, lakes or streams.
- **DO NOT** apply over the root systems of desirable plants. For trees and shrubs do not apply closer than twice the distance from the trunk to the drip line as roots may be within this area.
- **DO NOT** apply to slopes in landscape as movement on soil surfaces may damage desirable plants down slope.
- **DO NOT** apply next to a fence if desirable vegetation is growing on the other side, or if future planting is intended.
- **DO NOT** use before planting lawns, fruits, vegetables, flowers, or other plants because this product remains active in soil for up to one year.
- **DO NOT** use on desirable lawns or turf.
- **DO NOT** apply to powdery, dry or light sandy soils when the soil may be blown by wind. If necessary, soil surface needs to be settled by rain or irrigation.
- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
- **DO NOT** apply or allow product to drift onto desirable plants.
- **DO NOT** allow animals intended for slaughter to graze on treated vegetation.
- **DO NOT** exceed maximum use rate of 192 fl. oz. (6 quarts) of product (1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre for broadcast or boom applications.
- **DO NOT** exceed maximum use rate of 4 fl. oz. of product (0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per gallon of water for spot or directed applications and do not apply beyond runoff.
- **DO NOT** apply more than 576 fl. oz. (18 quarts) of product (4.5 lbs. glufosinate/0.45 lb. ai imazapyr) per acre per year.
- Applications must be made at least 14 days apart in non-crop areas.

## AGRICULTURAL USE REQUIREMENTS

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

**DO NOT** enter or allow worker entry into treated areas during the restricted entry-interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls; chemical-resistant gloves such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton  $\geq 14$  mils; 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 for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The application for trimming and edging, industrial, recreational and public areas, and farmsteads are not within the scope of the WPS. **DO NOT** enter or allow others to enter treated areas until sprays have dried.

## MANDATORY SPRAY DRIFT REQUIREMENTS

- When making applications via aerial application equipment, the spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor blade vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- When making applications via aerial application equipment, applicators must use  $\frac{1}{2}$  swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

*(continued)*

### **MANDATORY SPRAY DRIFT REQUIREMENTS** *(continued)*

- For aerial applications, **DO NOT** release spray at a height greater than 10 ft above the target canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzles and pressure that deliver medium to coarse droplets in accordance with American Society of Agricultural & Biological Engineers Standard 527 (ASABE 572).
- Spray at the appropriate boom height based on nozzle selection and nozzle spacing, but **DO NOT** exceed a boom height of 24 inches above target pest or target canopy. Set boom to lowest effective height over the target pest or target canopy based on equipment manufacturer's directions. Automated boom height controllers are recommended with large booms to better maintain optimum nozzle to canopy height. Excessive boom height will increase the potential for spray drift.
- For non-crop vegetation management ground applications, apply with the nozzle height no more than 4 feet above the ground or target vegetation, unless necessitated by the application equipment. Examples would include roadside, railroad, utility rights of way, forestry and other industrial vegetation management applications where safety or natural barriers obstruct application.

### **SPRAY DRIFT ADVISORIES**

#### **POLLINATOR ADVISORY**

This product contains an herbicide. Follow all label directions and precautions to minimize potential off-target exposure in order to prevent effects to non-target plants adjacent to the treated site which may serve as habitat or forage for pollinators.

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

#### **IMPORTANCE OF DROPLET SIZE**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **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 sections of this label.

### **Controlling Droplet Size – Ground Boom**

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- 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.

### **Controlling Droplet Size – Aircraft**

- Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations. **AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**
- Nozzle Type - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- Boom Length - Longer booms increase drift potential. Therefore, a shorter boom length is recommended.
- Application Height - Application more than 10 ft. above the canopy increases the potential for spray drift.

### **BOOM HEIGHT**

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **DRIFT REDUCTION TECHNOLOGY (DRT)**

The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacture, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage as they become available: <https://www.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-drift-reduction-technologies>

## **WIND**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator needs to be familiar with local wind patterns and how they affect spray drift.

## **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

## **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature 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.

## **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

## **RESISTANCE MANAGEMENT**

For resistance management, please note that RM43<sup>®</sup>-2 contains both a Group 10 (glufosinate) and Group 2 (imazapyr) herbicide. Any weed population may contain plants naturally resistant to Group 10 and/or Group 2 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same use site. Follow appropriate resistance-management strategies.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of RM43<sup>®</sup>-2 and other Group 10 or 2 herbicides that might have a similar target site of action, on the same weed species.



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

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

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

Report any incidence of non-performance of this product against a particular weed species to your Ragan and Massey, LLC. retailer, representative or call 800-264-5281. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.

## PRODUCT INFORMATION

RM43<sup>®</sup>-2 is a nonselective water-soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds. RM43<sup>®</sup>-2 will also control certain woody species\*. THOROUGH SPRAY COVERAGE IS IMPORTANT. Visual effects and control from application of RM43<sup>®</sup>-2 occur within 2 to 4 days after application under good growing conditions.

\*Not for use on woody species in California.

This product is nonselective and will injure or kill all green vegetation contacted by the spray. Avoid all contact with foliage or green tissue of desirable vegetation. Avoid direct spray contact with green, thin, or uncalloused bark of desirable vegetation or plant injury may result. If desirable vegetation is contacted, rinse the sprayed portion with water immediately.

Weed control may be reduced when applications are made to weeds under stress due to drought

or cool temperatures. Weeds under stress or in dense populations will require application at the highest rate specified. Refer to the How to Apply section of this label.

### **WHERE TO USE**

Industrial sites, Petroleum tank farms, Lumberyards, Manufacturing Sites, Storage Areas, Airports, Roadsides, Curbs, Sidewalks, Driveways, Parking areas, Brick walks, Gravel Paths, Patios, Vacant lots, Paved areas (including crack and crevice), Warehouse areas, Urban areas, Recreational areas, Play areas, Tennis courts, Fencerows, Along fences of paddocks, corrals, feedlots, and livestock holding areas, Dry Ditchbanks, Around domestic dwellings, Around farm buildings and barns, Agricultural uncultivated areas, Shelter beds, Farm yards, Farm premises, Outdoor buildings, structures, and shelters such as beef barns, hog barns, dairy barns, stables, dog kennels and poultry houses, and for establishment and maintenance of wildlife openings

Only apply to locations where no vegetation growth is desired for up to one year.

### **WHEN TO APPLY**

Thorough spray coverage is important. Apply to bare ground or when weeds are present. If weeds are taller than 6 inches, mow or cut down weeds and remove debris before treatment and allow for 2 weeks of new growth. Contact with soil is important for extended control. If woody vines or brush is mowed or cut, wait until full leaf formation before treatment.

To prevent growth of weeds under asphalt driveways, play areas, tennis courts and parking areas, apply this product before laying surfacing materials.

Treat area uniformly to maximize results.

Re-treatment every 6 to 8 months may be necessary in areas of heavy rainfall.

### **HOW TO MIX**

RM43<sup>®</sup>-2 must be mixed with water to make a finished spray solution as follows:

1. Fill the spray tank with the required amount of water.
2. Add the proper amount of this product, then mix thoroughly.

### **HOW TO APPLY**

Apply on a sunny day with temperatures above 60°F. Avoid product runoff to nearby desirable plants. In soils with heavy clay, weed control may exceed one year.

### **TOTAL VEGETATION CONTROL (BAREGROUND)**

Use hand operated spray equipment such as backpack sprayers, pump-up sprayers or sprinkling cans, or ATV/Tractor mounted sprayers. Mix 4 fl. oz. RM43<sup>®</sup>-2 (equivalent to 0.03 lb. ai glufosinate and 0.003 lb. ai imazapyr) with water to produce 1 to 10 gallons of spray solution and apply to 1,000 sq. ft. Uniformly spray the mix over area where total vegetation control and bareground is desired.

Optimum performance will be achieved from applications to actively growing weeds in early summer. Use 1 to 10 gallons of water depending on spray speed and equipment used to deliver 4 fl. oz. RM43<sup>®</sup>-2 per 1,000 sq. ft.

**Restrictions:**

- **DO NOT** apply more than 170 fl. oz. of product (1.33 lb. ai glufosinate/0.13 lb. ai imazapyr) per acre per application (4 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 170 fl. oz. of product (1.33 lb. ai glufosinate/0.13 lb. ai imazapyr) per acre per year (4 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 1 application per year.

**SPOT OR DIRECTED APPLICATIONS**

Use this product as a spot or directed spray application using 2 to 4 fluid ounces of product (0.016 lb. ai glufosinate/0.0016 lb. ai imazapyr to 0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per gallon of water. Mix 2 to 4 fluid ounces of product per gallon of water depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis. Ensure uniform and complete coverage. Use a coarse spray. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

**Restrictions:**

- **DO NOT** apply more than 4 fl. oz. of product (0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per acre per application (0.09 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 104 fl. oz. of product (0.78 lb. glufosinate/0.078 lb. ai imazapyr) per acre per year (2.38 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 26 applications per year.
- Applications must be made at least 14 days apart.
- **DO NOT** apply beyond runoff
- **DO NOT** spray during windy conditions

**BROADCAST OR BOOM APPLICATIONS**

Apply 64 to 192 fl. oz. (2 to 6 quarts) of product (0.5 lb. ai glufosinate/0.05 lb. ai imazapyr to 1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre (1.46 to 4.4 fl. oz. per 1,000 sq. ft.) depending upon the weed and stage of growth as shown in the following sections. Use a minimum of 40 gallons of water per acre with a minimum of 30-psi spray pressure.

**Restrictions:**

- **DO NOT** apply more than 192 fl. oz. (6 quarts) of product (1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre per application (4.4 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 576 fl. oz. (18 quarts) of product (4.5 lbs. glufosinate/0.45 lb. ai imazapyr) per acre per year (13.2 fl. oz. per 1,000 sq. ft.).

- **DO NOT** make more than 9 applications per year when applied at reduced rates.
- Applications must be made at least 14 days apart.

### **Aerial Applications**

Apply as a foliar treatment using a minimum of 5 gallons of water per acre to ensure thorough coverage.

### **Tank Mixes for Noncrop Uses**

RM43®-2 is compatible in tank mixes with many other herbicides including non-selective herbicides. *It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.*

A compatibility test must be conducted with any potential tank mix partner with RM43®-2, except with any one of those listed above. Using a clear glass quart jar, conduct the test as described below:

1. Fill the jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with RM43®-2.

## **WEEDS CONTROLLED**

### **Weeds Controlled by RM43®-2**

#### **For spot application:**

Apply 2 fluid ounces of product (0.016 lb. ai glufosinate/0.0016 lb. ai imazapyr) per gallon of water when the weed height or diameter is less than 6 inches.

Apply 3 fluid ounces of product (0.023 lb. ai glufosinate/0.0023 lb. ai imazapyr) per gallon of water when the weed height or diameter is 6 inches or greater.

#### **For broadcast application:**

Apply 3 quarts of product (0.75 lb. ai glufosinate/0.075 lb. ai imazapyr) per acre when the weed height or diameter is less than 6 inches.

Apply 4 quarts of product (1.0 lb. ai glufosinate/0.1 lb. ai imazapyr) per acre when the weed height or diameter is 6 inches or greater.

**Broadleaf Weeds**

chickweed	London rocket
clover	malva (little mallow)
common cocklebur	marestail
filaree	purslane
jimsonweed	shepherdspurse
kochia	smartweed

**Grasses and Sedges**

barnyardgrass	lovegrass
cupgrass	shattercane
fall panicum	smallflower
giant foxtail	Alexandergrass (signal grass)
goosegrass	stinkgrass
green foxtail	windgrass
Johnsongrass (rhizome)	yellow foxtail

**For spot application:**

Apply 3 fluid ounces of product (0.023 lb. ai glufosinate/0.0023 lb. ai imazapyr) per gallon of water when the weed height or diameter is less than 6 inches.

Apply 4 fluid ounces of product (0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per gallon of water when the weed height or diameter is 6 inches or greater.

**For broadcast application:**

Apply 4 quarts of product (1.0 lb. ai glufosinate/0.1 lb. ai imazapyr) per acre when the weed height or diameter is less than 8 inches tall.

Apply 6 quarts of product (1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre when the weed height or diameter is 8 inches or greater.

**Broadleaf Weeds**

annual	goldenrod	plantain	wild mustard
sowthistle	horsetail	prickly lettuce	wild onion
bindweed	lambsquarters	ragweed	wild rose
buffalobur	leafy spurge	Russian thistle	wild turnip
burdock	mugwort	tansy mustard	woodsorrel
Canada thistle	musk thistle	velvetleaf	yellow rocket
curly dock	nettle	vervain	
dandelion	nightshade	Virginia	
dogbane	pennycress	copperleaf	
(hemp)	pigweed, red	white heath	
field gromwell	root	aster	
fleabane		wild	
		buckwheat	

**Grasses and Sedges**

annual	nutsedge
bluegrass	paragrass
bahiagrass	quackgrass
barley	ryegrass
Bermudagrass	sandbur
carpetgrass	smooth
crabgrass	bromegrass
dallisgrass	torpedograss
downy	vaseygrass
bromegrass	wheat
fescue	wild oat
guineagrass	
Kentucky	
bluegrass	

## Use Notes

1. Use higher rates within the specified rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions such as drought or when average temperatures are below 50°F.

The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.

## Use on Woody Species\*

**\*Not for use on woody species in California.**

When applied as directed, RM43®-2 will provide control, partial control, or suppression of certain perennial woody weed species. Apply 64 to 192 fl. oz. (2 to 6 quarts) of product (0.5 lb. ai glufosinate/0.05 lb. ai imazapyr to 1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre (1.46 to 4.4 fl. oz. per 1,000 sq. ft.). Use the higher listed rates per acre of this product when conditions are not optimum for spray penetration, such as when vegetation growth is heavy or dense. Lower listed rates may be used when the target species is a conifer and when vegetation growth conditions allow for uniform spray coverage.

blackberry	<i>Rubus</i> spp.	poison ivy	<i>Toxicodendron radicans</i>
deer brush	<i>Ceanothus integerrimus</i>	poison oak	<i>Toxicodendron toxicarium</i>
Douglas fir	<i>Pseudotsuga menziesii</i>	roundleaf greenbriar	<i>Smilax rotundifolia</i>
gallberry	<i>Ilex</i> spp.	salmonberry	<i>Rubus spectabilis</i>
hazel	<i>Corylus</i> spp.	sweet gum	<i>Liquidambar styraciflua</i>
honeysuckle	<i>Lonicera</i> spp.	sumac	<i>Rhus</i> spp.
huckleberry	<i>Gaylussacia</i> spp.	thimbleberry	<i>Rubus parviflorus</i>
maple	<i>Acer</i> spp.	trumpet creeper	<i>Campsis radicans</i>
multiflora rose	<i>Rosa multiflora</i>	vine maple	<i>Acer circinatum</i>
oak	<i>Quercus</i> spp.	Western red cedar	<i>Thuja plicata</i>
pine	<i>Pinus</i> spp.		

## Restrictions:

- **DO NOT** apply more than 192 fl. oz. (6 quarts) of product (1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre per application (4.4 fl. oz. per 1,000 sq. ft.).

- **DO NOT** apply more than 576 fl. oz. (18 quarts) of product (4.5 lbs. glufosinate/0.45 lb. ai imazapyr) per acre per year (13.2 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 9 applications per year when applied at reduced rates.
- Applications must be made at least 14 days apart.

### **TRIMMING AND EDGING**

RM43<sup>®</sup>-2 may be used for trimming and edging landscape areas including: landscape beds, foundations, fences, driveways, paths, and parking areas; also on golf courses along cart paths, around sign and light posts, and around sand traps. For control of weeds emerging from seed, use RM43<sup>®</sup>-2 in a tank mix with preemergence herbicides. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

#### **Restrictions:**

- **DO NOT** apply more than 4 fl. oz. of product (0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per acre per application (0.09 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 104 fl. oz. of product (0.78 lb. glufosinate/0.078 lb. ai imazapyr) per acre per year (2.38 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 26 applications per year.
- Applications must be made at least 14 days apart.

### **RECREATIONAL AND PUBLIC AREAS**

When applied as a spot or directed spray application, this product controls annual and perennial weeds listed on this label in areas such as: airports, commercial plants, storage and lumber yards, educational facilities, fence lines, ditch banks, dry ditches, schools, parking lots, tank farms, pumping stations, parks, other public areas and nonfood crop areas. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

#### **Restrictions:**

- **DO NOT** apply more than 4 fl. oz. of product (0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per acre per application (0.09 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 104 fl. oz. of product (0.78 lb. glufosinate/0.078 lb. ai imazapyr) per acre per year (2.38 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 26 applications per year.
- Applications must be made at least 14 days apart.

## FARMSTEADS

When applied as directed, this product controls undesirable plant vegetation in non-crop areas around farmstead building foundations, shelter belts, along fences, and general nonselective farmstead weed control. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

### Restrictions:

- **DO NOT** allow animals intended for slaughter to graze on treated vegetation.

#### *For spot or directed applications:*

- **DO NOT** apply more than 4 fl. oz. of product (0.03 lb. ai glufosinate/0.003 lb. ai imazapyr) per acre per application (0.09 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 104 fl. oz. of product (0.78 lb. glufosinate/0.078 lb. ai imazapyr) per acre per year (2.38 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 26 applications per year.
- Applications must be made at least 14 days apart.

#### *For broadcast or boom applications:*

- **DO NOT** apply more than 192 fl. oz. (6 quarts) of product (1.5 lbs. ai glufosinate/0.15 lb. ai imazapyr) per acre per application (4.4 fl. oz. per 1,000 sq. ft.).
- **DO NOT** apply more than 576 fl. oz. (18 quarts) of product (4.5 lbs. glufosinate/0.45 lb. ai imazapyr) per acre per year (13.2 fl. oz. per 1,000 sq. ft.).
- **DO NOT** make more than 9 applications per year when applied at reduced rates.
- Applications must be made at least 14 days apart.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in original container only. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may 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. 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 if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.



## CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Ragan and Massey, LLC. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Ragan and Massey, LLC. and Seller harmless for any claims relating to such factors.

Ragan and Massey, LLC. 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Ragan and Massey, LLC., and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, RAGAN AND MASSEY, LLC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Ragan and Massey, LLC. nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF RAGAN AND MASSEY, LLC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF RAGAN AND MASSEY, LLC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Ragan and Massey, LLC. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Ragan and Massey, LLC.

# RM43-2

GLUFOSINATE	GROUP	10	HERBICIDE
IMAZAPYR	GROUP	2	HERBICIDE

## 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.)

### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product call your poison control center at 1-800-222-1222.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

EPA Reg. No. 84009-36      EPA Est. No. 084840-LA-001

**See Inside Booklet for Complete Precautionary Statements,  
Directions for Use and Storage and Disposal.**

Manufactured For:

**Ragan and Massey, LLC.**

101 Ponchatoula Parkway, Ponchatoula, Louisiana 70454  
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PEEL BACK BOOK HERE AND RESEAL AFTER OPENING

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