



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 5, 2024

Maryanne Kellogg  
Regulatory Consultant  
Alligare, LLC  
c/o Pyxis Regulatory Consulting Inc.  
535 Dock St. Ste 211  
Tacoma, WA 98402

Subject: Label Amendment - Registration Review Mitigation for Rimsulfuron  
Product Name: Alligare Rimsulfuron 25 DF  
EPA Registration Number: 81927-57  
Application Date: June 23, 2022  
Decision Number: 596207

Dear Maryanne Kellogg:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the rimsulfuron Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must

submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Concepción Rodríguez by phone at 202-566-0820, or via email at [rodriguez.concepcion@epa.gov](mailto:rodriguez.concepcion@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

[Note to reviewer: [Text] in brackets indicates optional text.]

GROUP

2

HERBICIDE

## ALLIGARE RIMSULFURON 25 DF

[Alternate Brand Name: Laramie 25DF]

Dry Flowable Herbicide

For [Non-Selective Weed Control,] Selective Weed Control and Invasive Species Management in Non-Crop Sites and for use in Rangeland Restoration West of the Mississippi River. May also be used for weed control along Roadsides and Highway Medians[\*], at Industrial Plant Sites[\*] and Utility Substations[\*]

[\*Not Registered in New York]

### ACTIVE INGREDIENT:

% BY WT.

Rimsulfuron: N-((4,6-dimethoxypyrimidin-2-yl)aminocarbonyl)-3-(ethylsulfonyl)-2-pyridinesulfonamide ..... 25.0%

OTHER INGREDIENTS: ..... 75.0%

TOTAL: ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

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

#### FIRST AID

IF IN EYES:	<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>
IF ON SKIN:	<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>
IF SWALLOWED:	<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>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further 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. You may also contact 1-800-424-9300 for emergency medical treatment information.

[See] [inside] [label] [booklet] [for] [First Aid][,] [additional] [Precautionary Statements][,] [and] [Directions for Use] [including Storage and Disposal] [instructions][.]

EPA Reg. No. 81927-57

EPA Est. No.

Manufactured for:

Alligare, LLC  
1565 5<sup>th</sup> Avenue  
Opelika, AL 36801

Net Weight:

**ACCEPTED**

Sep 05, 2024

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 81927-57

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product. 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.

**ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR Part 170 Section 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**USERS SHOULD:**

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

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of rimsulfuron from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

**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 you State or Tribe, consult the agency in your State responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and

restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 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
- Waterproof gloves
- Shoes plus socks

### **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.

Use on non-crop sites and turf (unimproved) are not within the scope of the Worker Protection Standard. Do not enter or allow worker entry into treated areas until sprays have dried.

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Spray Drift Management section of this label.

**IMPORTANT:** Alligare Rimsulfuron 25 DF is recommended for use in most states. Check with your agricultural dealer, state cooperative extension service, or Department of Agriculture before use to be certain Alligare Rimsulfuron 25 DF is registered in your state. Read the entire use directions and Limited Warranty, Terms of Sale, and Limitation of Liability before using Alligare Rimsulfuron 25 DF.

### **MANDATORY SPRAY DRIFT MANAGEMENT**

#### **Aerial Applications:**

- Do not release spray at a height greater than 10 ft. above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ANSI/ASABE S641 MAY 2018).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ANSI/ASABE S641 MAY 2018).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **Ground Boom Applications:**

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ANSI/ASAE S572.3 FEB 2020).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ANSI/ASAE S572.3 FEB 2020).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.



**Boom-less Ground Applications:**

- Applicators are required to use a Medium or coarser droplet size (ANSI/ASAE S572.3 FEB 2020) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

**SPRAY DRIFT ADVISORIES**

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

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. To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Where states have more stringent regulations, they should be followed. Additional information may be available from state enforcement agencies or the state cooperative extension service on spray drift management.

**IMPORTANCE OF DROPLET SIZE**

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

**Controlling Droplet Size – Ground Boom**

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

**Controlling Droplet Size – Aircraft**

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

**Boom-Less Ground Applications:**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

**Handheld Technology Applications:**

- Take precautions to minimize spray drift.

**BOOM HEIGHT – Ground Boom**

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

**RELEASE HEIGHT – Aircraft**

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

**SHIELDED SPRAYERS**

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

**TEMPERATURE AND HUMIDITY**

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

## **TEMPERATURE INVERSIONS**

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

## **WIND**

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## **CHEMIGATION APPLICATION**

Do not apply Alligare Rimsulfuron 25 DF through any type of irrigation system.

## **WINDBLOWN SOIL PARTICLES**

Alligare Rimsulfuron 25 DF has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying Alligare Rimsulfuron 25 DF if prevailing local conditions may be expected to result in off-site movement.

## **INTEGRATED PEST MANAGEMENT**

Alligare, LLC recommends the use of Integrated Pest Management (IPM) programs to control pests. Alligare Rimsulfuron 25 DF may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of Alligare Rimsulfuron 25 DF should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

## **HERBICIDE RESISTANCE MANAGEMENT**

For resistance management, Alligare Rimsulfuron 25 DF is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Alligare Rimsulfuron 25 DF and other Group 2 herbicides. Weed species with acquired resistance to Group 2 herbicides may eventually dominate the weed population if Group 2 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Alligare Rimsulfuron 25 DF or other Group 2 herbicides. Users should scout before and after application.

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

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

To delay herbicide resistance:

- Avoid the consecutive use of Alligare Rimsulfuron 25 DF or other target site of action Group 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 (an herbicide mode of

action classification by itself may not adequately address specific weeds that are resistance to specific herbicides).

- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Report any incidence of non-performance of this product against a particular weed species to your Alligare LLC retailer, representative or call 888-255-4427. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

## PRODUCT INFORMATION

Alligare Rimsulfuron 25 DF must be used only in accordance with directions on this label or in separate published Alligare, LLC directions. Alligare, LLC will not be responsible for losses or damage resulting from use of this product in any manner not specifically directed by Alligare, LLC.

**Formulation:** Alligare Rimsulfuron 25 DF is a dry flowable formulation containing 25% active ingredient by weight. It is noncorrosive to equipment, nonflammable, and nonvolatile. Continuous agitation is required to maintain the product in suspension in the spray tank. For best results, the spray tank solutions of Alligare Rimsulfuron 25 DF should be maintained at pH 5 to 7. Degradation of Alligare Rimsulfuron 25 DF may occur if it is used in a spray solution or with spray additives that buffer pH to below 4 or above 8.

Continuous agitation is required to maintain the product in suspension in the spray tank.

**Mode of Action:** Alligare Rimsulfuron 25 DF contains rimsulfuron which belongs to the sulfonylurea chemical family of herbicides. Herbicides in this family inhibit branched-chain amino acid synthesis in plants. Alligare Rimsulfuron 25 DF is absorbed through the roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. For preemergence weed control, rainfall or sprinkler irrigation is needed to move Alligare Rimsulfuron 25 DF into the soil. Weeds will not emerge from the preemergence application. In some cases, however, susceptible weeds may germinate and emerge a few days after application, but growth then ceases and leaves become chlorotic three to five days after emergence. Death of leaf tissue and growing point will follow in some species, while others will remain green but stunted and noncompetitive.

One to three weeks after postemergence application to weeds, leaves of susceptible plants appear chlorotic, and the growing point subsequently dies. In warm, moist conditions, the expression of herbicide symptoms is accelerated; in cold, dry conditions, expression of herbicide symptoms is delayed. Death of leaf tissue and growing point will follow in some species, while others will remain green but stunted and noncompetitive.

The herbicidal action of Alligare Rimsulfuron 25 DF may be less effective on weeds stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, weeds hardened-off by drought stress are less susceptible to Alligare Rimsulfuron 25 DF.

Postemergence weed control may be reduced if rainfall occurs soon after application. Several hours of dry weather are needed to allow Alligare Rimsulfuron 25 DF to be sufficiently absorbed by weed foliage (Alligare Rimsulfuron 25 DF is rainfast in 4 hours).

**Application Timing:** The best weed control is obtained when Alligare Rimsulfuron 25 DF is applied to young, actively growing weeds. The degree and duration of control may depend on (a) weed spectrum and infestation intensity, (b) weed size at application, and (c) environmental conditions at and following treatment.



For maximum preemergence activity prior to application, the bed or soil surface should be smooth and relatively free of crop and weed trash (dead weeds, decaying leaves, clippings, etc.). Leaves and trash may be removed by blowing the area to be treated or by thoroughly mixing the trash into the soil through cultivation prior to herbicide application. Cultural practices that result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of Alligare Rimsulfuron 25 DF.

**Note:** See the application information section below for directions on application timing specific to each use of Alligare Rimsulfuron 25 DF.

## **SPRAY ADJUVANTS**

A spray adjuvant must be added with each application of Alligare Rimsulfuron 25 DF when applied by itself and postemergence to the weeds. If another herbicide is tank mixed with Alligare Rimsulfuron 25 DF, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40 CFR 1001).

### **Nonionic Surfactant (NIS)**

- Apply 0.125 to 0.25% v/v (1 to 2 pints per 100 gallons of spray solution). The higher 0.25% v/v rate should be used under arid or drought conditions.
- Surfactant products must contain at least 80% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.

### **Petroleum Crop Oil Concentrate (COC) or Modified Seed Oil (MSO)**

- Apply at 1% v/v (1 gallon per 100 gallons of spray solution).
- Oil adjuvants must contain at least 80% high quality petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.
- Blended products which contain both MSO and silicone are acceptable at labeled rates.

### **Adjuvant Precautions**

- The use of silicone polymer-type surfactants is not suggested, as reduced weed control may result.

**Note:** More specific directions for use of spray adjuvants with Alligare Rimsulfuron 25 DF are provided below under specific uses.

## **SPRAY EQUIPMENT, CLEANUP, AND MIXING INSTRUCTIONS**

**Equipment:** For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc. Air and ground equipment should be properly calibrated with clean water before making an application of Alligare Rimsulfuron 25 DF. Thorough coverage is required for best weed control. The spray delivery system should provide a uniform spray pattern with a minimum of drift.

Avoid spray drift onto nontarget sites by using properly calibrated equipment, appropriate spray volumes for the crop, and avoiding an application during inclement weather conditions that favor spray drift. For additional information of spray drift, refer to the **SPRAY DRIFT MANAGEMENT** section of this label.

**Equipment Cleanup:** The spray equipment must be cleaned and free of previous pesticide deposits before Alligare Rimsulfuron 25 DF is mixed and used. Follow the cleanup procedures specified on the labels of the previously applied products. If no cleanup directions are provided, follow the steps provided below for cleaning up after spraying Alligare Rimsulfuron 25 DF. Thoroughly clean all mixing and spray equipment immediately following applications of Alligare Rimsulfuron 25 DF to avoid subsequent plant injury.

Spray equipment or nurse tanks used in chemigation must be cleaned before Alligare Rimsulfuron 25 DF is used. Follow the cleanup procedures specified on the labels of previously applied products. If no directions are provided, follow the procedures outlined below in the **After Spraying Alligare Rimsulfuron 25 DF** section of this label.

When cleaning spray equipment before mixing Alligare Rimsulfuron 25 DF, read and follow label directions for proper rinsate disposal of the product previously sprayed. Steam cleaning spray tanks is recommended prior to the cleanout procedure outlined below to facilitate the removal of any caked pesticide deposits.

When multiple loads of Alligare Rimsulfuron 25 DF are applied or when mixing and spraying equipment will be used over an extended period to apply multiple loads of Alligare Rimsulfuron 25 DF, it is recommended that at the end of each day of spraying the interior of the tank be rinsed with fresh water, flush the boom and hoses, and then partially fill the tank and allow to sit overnight. This will prevent the buildup of dried pesticide deposits from accumulating in the application equipment.

#### **After Spraying Alligare Rimsulfuron 25 DF**

1. Drain the tank and thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gallon of household ammonia\* (contains at least 3% active ingredient) for every 100 gallons of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 minutes. Flush the hoses, boom, and nozzles again with the cleaning solution and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing ammonia\* and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) listed on this label. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

\*Equivalent amounts of an alternate-strength ammonia solution or an Alligare-approved spray equipment cleaner can be used in the cleanup procedure. Carefully read and follow the individual cleaner instructions. Consult your agricultural dealer, applicator, or Alligare representative for a listing of approved spray equipment cleaners for use with Alligare Rimsulfuron 25 DF.

#### **Additional Notes for Cleanup**

1. Do not use chlorine bleach with ammonia, as dangerous gases will form. Do not clean equipment in an enclosed area.
2. When Alligare Rimsulfuron 25 DF is tank mixed with other pesticides, all required cleanout procedures should be examined and the most rigorous procedure should be followed.
3. In addition to this cleanout procedure, all pre-application cleanout guidelines on subsequently applied products should be followed as per the individual labels.
4. Where routine spraying practices include shared equipment frequently being switched between applications of Alligare Rimsulfuron 25 DF and applications of other pesticides to plants sensitive to Alligare Rimsulfuron 25 DF during the same spray season, it is recommended that a sprayer be dedicated to Alligare Rimsulfuron 25 DF to further reduce the chance of plant injury.

**Mixing Instructions:** It is very important that the spray equipment is clean and free of previous pesticide deposits before mixing Alligare Rimsulfuron 25 DF. Follow these steps when mixing a spray solution with Alligare Rimsulfuron 25 DF:

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of Alligare Rimsulfuron 25 DF.
3. Continue agitation until the Alligare Rimsulfuron 25 DF is fully dispersed, at least 5 minutes.
4. Once the Alligare Rimsulfuron 25 DF is fully dispersed, maintain agitation and continue filling the tank with water. Alligare Rimsulfuron 25 DF should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired); then add the required amount of spray adjuvant (if needed). Always add the spray adjuvant last.
6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply Alligare Rimsulfuron 25 DF spray mixture within 48 hours of mixing to avoid product degradation.
8. If Alligare Rimsulfuron 25 DF and tank mix partner are to be applied in multiple loads, pre-slurry the Alligare Rimsulfuron 25 DF in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the Alligare Rimsulfuron 25 DF.
9. Continuous agitation is required to maintain the product in suspension in the spray tank.

Do not use Alligare Rimsulfuron 25 DF in a spray solution or with spray additives that change the pH to below 4 or above 8, or Alligare Rimsulfuron 25 DF degradation may occur. (See the **Formulation** section above for more information.)

## TANK MIXTURES

In order to broaden the weed control spectrum and/or extend the residual effectiveness of Alligare Rimsulfuron 25 DF, it may be used in tank mixtures with registered herbicides affecting a different site of action (mode of action) and/or adjuvants registered for use on the use sites listed on the Alligare Rimsulfuron 25 DF labeling. If the selected companion herbicide has a ground or surface water advisory, consider this advisory when using the companion herbicide. Alligare Rimsulfuron 25 DF may also be used in other tank mixtures with insecticides and fungicides. 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.

## PRECAUTIONS

- Carefully observe sprayer cleanup instructions, as spray tank residue may damage other plants.
- Thoroughly clean application equipment immediately after use of Alligare Rimsulfuron 25 DF. (See the **Equipment Cleanup** section of this label for instructions.)
- Avoid spray drift to any adjacent crops, planned planting areas, and desirable plants, as injury may occur.
- For best results, maintain spray tank solution at pH 5 to 7.
- Preemergence use on soils containing more than 6% organic matter may not provide adequate soil residual weed control and may result in reduced weed control.
- Crops (especially crops other than pome fruit, tree nuts, stone fruit, citrus, grapes, potatoes, tomatoes, and field corn) whose roots extend into a treated area may be injured.
- If tank mixing Alligare Rimsulfuron 25 DF with another herbicide, check to see if the selected companion herbicide has a ground or surface water advisory. If it does, consider the advisory when using the companion herbicide.

## RESTRICTIONS

- Do not apply or drain or flush equipment containing Alligare Rimsulfuron 25 DF on or near desirable trees or other plants, on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Trees or other desirable plants whose roots extend into a treated crop use area may be injured.
- Do not contaminate any body of water including irrigation water that may be used on other crops.
- Do not apply in or on irrigation canals or ditches including their outer banks.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- Do not apply to frozen or snow-covered soil. Crop injury may occur from applications made to poorly drained soils.
- Do not apply by air in the state of NY. Do not apply by air in the state of CA.
- Do not graze or feed forage, grain, or fodder (stover) from treated areas to livestock within 30 days of Alligare Rimsulfuron 25 DF application.

**Note:** See also the specific uses below for additional precautions and restrictions for use of Alligare Rimsulfuron 25 DF.

**[Note to Reviewer: The FOR NON-SELECTIVE WEED CONTROL IN NON-CROP SITES text, table, TANK MIXTURES and APPLICATION INFORMATION text appearing on this page are optional text and may not appear on the final printed label]**

## FOR NON-SELECTIVE WEED CONTROL IN NON-CROP SITES

Alligare Rimsulfuron 25 DF is a dry flowable formulation to be mixed with water and sprayed for non-selective weed control on private, public and military lands as follows: nonagricultural areas (such as

airports, highway, railroad and utility rights-of-way, sewage disposal areas, etc.); uncultivated agricultural areas – non-crop producing (such as farmyards, fuel storage areas, fence rows, non-irrigation ditchbanks, barrier strips, etc.); industrial sites – outdoor (such as lumberyards, pipeline and tank farms, etc.) and non-cropland wildlife habitats.

Apply Alligare Rimsulfuron 25 DF at rates up to 4.0 ounces broadcast per acre.

Alligare Rimsulfuron 25 DF may be used in weed management programs on non-crop sites to provide control of the following weeds:

Barnyardgrass	<i>Echinochloa crus-galli</i>
Brome, downy	<i>Bromus tectorum</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>
Foxtail, giant	<i>Setaria faberi</i>
Foxtail, green	<i>Setaria viridis</i>
Foxtail, yellow	<i>Setaria glauca</i>
Filaree, redstem	<i>Erodium cicutarium</i>
Fleabane, hairy	<i>Conyza bonariensis</i>
Mallow, common	<i>Malva neglecta</i>
Marestail/horseweed*	<i>Conyza canadensis</i>
Medusahead	<i>Taeniatherum caput-medusae</i>
Mustard, black	<i>Brassica nigra</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Puncturevine	<i>Tribulus terrestris</i>

\*Naturally occurring resistant biotypes of this weed are known to exist in some areas of the U.S. Alligare Rimsulfuron 25 DF will not control these biotypes.

Refer to the Weed Control Along Roadsides, Highway Medians, at Industrial Plants Sites, and at Utility Substations section of this label for additional weeds controlled.

## TANK MIXTURES

For complete non-selective weed control in non-crop sites, Alligare Rimsulfuron 25 DF must be applied in a tank mixture with other registered herbicides for non-selective weed control in non-crop sites. Alligare Rimsulfuron 25 DF may be tank mixed with other herbicides registered for non-crop use. It may also be tank-mixed with any adjuvants registered for non-crop use. 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.

## APPLICATION INFORMATION

Apply Alligare Rimsulfuron 25 DF at rates up to 4.0 ounces broadcast per acre.

For best preemergence residual activity, Alligare Rimsulfuron 25 DF must be activated by rainfall and applied when soil temperatures are cool. Make applications to take advantage of normal rainfall patterns (minimum of ½ inch) and cooler temperatures. For best results, moisture for activation should occur within 2-3 weeks after application.

**Restriction:** Do not apply more than 4.0 ounces of Alligare Rimsulfuron 25 DF (0.0625 lbs a.i.) per acre per year. Make a maximum of 8 applications per year.

## FOR SELECTIVE WEED CONTROL AND INVASIVE SPECIES MANAGEMENT IN NON-CROP SITES

Alligare Rimsulfuron 25 DF is a dry flowable formulation to be mixed with water and sprayed for weed control on private, public and military lands as follows: nonagricultural areas (such as airports, highway, railroad and utility rights-of-way, sewage disposal areas, etc.); uncultivated agricultural areas – non-crop producing (such as farmyards, fuel storage areas, fence rows, non-irrigation ditchbanks, barrier strips, etc.);

industrial sites – outdoor (such as lumberyards, pipeline and tank farms, etc.) and non-cropland wildlife habitats.

## INVASIVE SPECIES MANAGEMENT

This product may be used on public, private, and tribal lands to treat certain weed species infestations that have been determined to be invasive, consistent with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) National Early Detection and Rapid Response (EDRR) System for invasive plants.

Effective EDRR systems address invasions by eradicating the invader where possible, and controlling them when the invasive species is too established to be feasibly eradicated. Once an EDRR assessment has been completed and action is recommended, a Rapid Response needs to be taken to quickly contain, deny reproduction, and if possible, eliminate the invader. Consult your appropriate state extension service, forest service, or regional multidisciplinary invasive species management coordination team to determine the appropriate Rapid Response provisions and allowed treatments in your area.

Continuous agitation is required to maintain the product in suspension in the spray tank. Alligare Rimsulfuron 25 DF is non-corrosive to spray equipment, non-flammable and non-volatile. Do not use Alligare Rimsulfuron 25 DF in a spray solution or with spray additives that buffer the pH to below 4.0, or above 8.0, as degradation of Alligare Rimsulfuron 25 DF may occur.

Alligare Rimsulfuron 25 DF may be used in weed management programs on non-crop sites to provide residual preemergence and early postemergence control of the following weeds:

Barnyardgrass	<i>Echinochloa crus-galli</i>
Brome, downy	<i>Bromus tectorum</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>
Foxtail, giant	<i>Setaria faberi</i>
Foxtail, green	<i>Setaria viridis</i>
Foxtail, yellow	<i>Setaria glauca</i>
Filaree, redstem	<i>Erodium cicutarium</i>
Fleabane, hairy	<i>Conyza bonariensis</i>
Mallow, common	<i>Malva neglecta</i>
Marestail/horseweed*	<i>Conyza canadensis</i>
Medusahead	<i>Taeniatherum caput-medusae</i>
Mustard, black	<i>Brassica nigra</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Puncturevine	<i>Tribulus terrestris</i>

\*Naturally occurring resistant biotypes of this weed are known to exist in some areas of the U.S. Alligare Rimsulfuron 25 DF will not control these biotypes.

Refer to the Weed Control Along Roadsides, Highway Medians, at Industrial Plants Sites, and at Utility Substations section of this label for additional weeds controlled.

To provide a broader spectrum of residual weed control, Alligare Rimsulfuron 25 DF may be applied in a tank mixture with other registered preemergence herbicides. When weeds are present at application, include a labeled burn down herbicide, such as glyphosate, or glufosinate, with an appropriate adjuvant.

For best results, make postemergence applications to young, actively growing weeds and include a spray adjuvant. Refer to the label of the tank mix partner(s) for any additional use instructions or restrictions. Follow the most restrictive labeling of any of the tank-mix component products.

## TANK MIXTURES

Alligare Rimsulfuron 25 DF may be tank mixed with other herbicides registered for non-crop use. It may also be tank-mixed with any adjuvants registered for non-crop use. 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.

### **APPLICATION INFORMATION**

Apply Alligare Rimsulfuron 25 DF at rates up to 4.0 ounces broadcast per acre. Do not apply more than 4.0 ounces of Alligare Rimsulfuron 25 DF per acre per year.

For best preemergence residual activity, Alligare Rimsulfuron 25 DF must be activated by rainfall and applied when soil temperatures are cool. Make applications to take advantage of normal rainfall patterns (minimum of ½ inch) and cooler temperatures. For best results, moisture for activation should occur within 2-3 weeks after application.

To help ensure uniform coverage, use a minimum of 10 gallons of spray solution per acre. Nozzle selection should meet manufacturer's spray volume and pressure recommendations for preemergence or postemergence herbicide applications.

Alligare Rimsulfuron 25 DF may be applied using ground or aerial spray equipment. Fixed wing aircraft and helicopters can be used to apply Alligare Rimsulfuron 25 DF; however, 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. Aerial equipment designed to minimize spray drift, such as a helicopter equipped with a Microfoil™ boom or raindrop nozzles, must be used and calibrated. Except when applying with a Microfoil™ boom, a drift control agent may be added at the labeled rate.

### **PRECAUTION**

- Do not use Alligare Rimsulfuron 25 DF in a spray solution or with spray additives that buffer the pH to below 4.0, or above 8.0, as degradation of Alligare Rimsulfuron 25 DF may occur
- To ensure uniform coverage, use a minimum of 10 gallons of spray solution per acre

### **RESTRICTION**

- Do not apply more than 4.0 ounces of Alligare Rimsulfuron 25 DF (0.0625 lbs a.i.) per acre per year.
- Make a maximum of 8 applications per year

### **NON-CROPLAND RESTORATION**

Alligare Rimsulfuron 25 DF is labeled for the control of downy brome (cheatgrass), medusahead and certain broadleaf weeds in non-cropland. In order to release desirable, perennial grass species for site restoration, Alligare Rimsulfuron 25 DF may be applied at 3.0 to 4.0 ounces of product per acre in the fall, within 6 weeks before the expected date when the soil freezes. Use the higher rate for medusahead control.

To provide broader spectrum broadleaf weed control in non-crop land restoration a tank mixture of Alligare Rimsulfuron 25 DF and Alligare Chlorsulfuron 75 or Telar® XP may be used. Include Alligare Chlorsulfuron 75 or Telar XP or at the labeled rate. Refer to the Alligare Chlorsulfuron 75 or Telar XP label for specific weeds controlled.

### **PRECAUTIONS**

- Treatment of powdery, dry soil or light, sandy soil when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to susceptible crops when soil particles are moved by wind or water. Injury to crops may result if treated soil is washed, blown, or moved onto land used to produce crops. Exposure to Alligare Rimsulfuron 25 DF may injure or kill most crops.
- Preemergence use on soils containing more than 6% organic matter may result in reduced weed control.
- Avoid spray drift to any adjacent crops, or planned crop planting areas, or desirable plants since injury may occur.

- Draining or flushing equipment on or near desirable trees or other plants, or in areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots may injure these plants.
- Crops (especially crops other than pome fruit, tree nuts, stone fruit, citrus, grapes, potatoes, tomatoes, and field corn) whose roots extend into a treated area may be injured.
- Where food and/or feed crops are grown, or in areas where food and/or feed crops are planned to be grown, care should be taken to prevent any direct spray of Alligare Rimsulfuron 25 DF onto, or drift to, these crops or planned planting areas since severe crop injury may occur.

#### RESTRICTIONS

- Do not apply more than 4.0 ounces of Alligare Rimsulfuron 25 DF (0.0625 lbs a.i.) per acre per year.
- Make a maximum of 8 applications per year.
- Injury may be more severe when the crops are irrigated. Do not apply Alligare Rimsulfuron 25 DF when these conditions are identified and powdery, dry soil or light or sandy soils are known to be prevalent in the area to be treated.
- Do not contaminate any body of water, including irrigation water that may be used on other crops.
- Do not apply in or on irrigation canals or ditches including their outer banks.
- Do not apply when the soil is frozen.

If non-crop sites treated with Alligare Rimsulfuron 25 DF are to be converted to an agriculture use, see the rotational crop instructions below.

For the crops listed below, planting prior to the interval shown may result in crop injury when using Alligare Rimsulfuron 25 DF. Rotation intervals may need to be extended to 18 months if drought conditions prevail after application and before the rotational crop is planted, unless supplemental sprinkler irrigation has been applied and an amount greater than 15" has been applied during the growing season. For tank mixtures, follow the most restrictive rotational crop guideline.

<b>Rotational Crop</b>	<b>Time Interval Before Planting (months)<sup>1</sup></b>
Beans, Dry	10
Beans, Snap	10
Corn, Field	Anytime
Corn, Sweet	10
Cotton	10
Cucumber	10
Garlic	6
Potatoes	Anytime
Soybeans	10
Tomatoes	Anytime
Wheat, Winter	4
Crops Not Listed	12

<sup>1</sup>Rotational crops may be planted at indicated intervals provided the fields are deep disked or plowed, and thorough soil mixing is achieved, prior to planting the rotational crop.

### FOR USE IN RANGELAND RESTORATION WEST OF THE MISSISSIPPI RIVER

Alligare Rimsulfuron 25 DF must be used only in accordance with directions on this label or in separately published Alligare Rimsulfuron 25 DF literature.

Alligare, LLC will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed on the label. User assumes all risks associated with such non-directed use.

Alligare Rimsulfuron 25 DF is a dispersible granule that is mixed in water and applied as a spray. Continuous agitation is required to maintain the product in suspension in the spray tank. Alligare Rimsulfuron 25 DF is non-corrosive to spray equipment, non-flammable and non-volatile. Do not use

Alligare Rimsulfuron 25 DF in a spray solution or with spray additives that buffer the pH to below 4.0, or above 8.0, as degradation of Alligare Rimsulfuron 25 DF may occur.

A restoration management program that includes Alligare Rimsulfuron 25 DF may be used when rangeland has become severely infested with invasive weed species, and deteriorated to where it is no longer suitable for grazing or forage production. To reclaim these lands, the invasive weed species must first be controlled to either allow native grasses to reestablish or to be replanted where practical with other desirable perennial grasses. The grasses must be allowed time to reestablish before grazing or forage production is resumed. A typical restoration management program will take one to two years.

In order to establish and/or release desirable, perennial grass species for rangeland restoration, Alligare Rimsulfuron 25 DF may be used to control the undesirable grasses and broadleaf weeds listed in the Weeds Controlled section below. The residual activity of Alligare Rimsulfuron 25 DF will also help prevent the reemergence of many of these weeds while desirable grasses are being reestablished.

At the maximum application rate of 4.0 ounces of Alligare Rimsulfuron 25 DF per acre per year desirable rangeland perennial grasses in the treated area may exhibit a temporary chlorosis following application. The use of an adjuvant with Alligare Rimsulfuron 25 DF can increase desirable perennial grass injury.

Where practical, fencing or other measures are to be used to prevent early grazing of reestablished sites to help promote active grass restoration.

**Restriction:** Do not graze or feed forage, grain, or fodder (stover) from treated areas to livestock within 30 days of Alligare Rimsulfuron 25 DF application.

## RESTORATION PROGRAM

An effective restoration program may include one or more of the following steps (A through F):

- A. Identifying and inventorying the weed infestation and desired grass densities.
- B. Consulting and planning the entire program with personal experienced in herbicide programs and range restoration.
- C. Making applications of Alligare Rimsulfuron 25 DF prior to soil freeze up or after spring thaw. Make sure all label precautions are followed.
- D. Include a tank mix partner labeled for use on rangeland to broaden the spectrum of weeds controlled.
- E. Planting grass seed as needed to improve the site, per the Grass Replant Interval section below.
  - Planting to obtain the highest possible grass stand establishment.
  - Planting a selected grass mixture to improve the desired stand.
  - Using a properly fitted drill to help ensure correct seed placement and depth is suggested.
  - Seeding in late fall to best ensure moisture for seed germination. Seeding in the spring has the highest risk of stand failure.
  - Consulting with a knowledgeable grass seed supplier to select the best-suited varieties for your area.
- F. Treating for second year, forbes control (if necessary):
  - Treat with Alligare Chlorsulfuron 75 or Telar XP + bromoxynil, at their labeled rates, to weeds at the early growth stage.

## GRASS REPLANT INTERVAL

The replant interval is for soils with a pH of less than 7.5. Soils having a pH greater than 7.5 will require a longer interval. The replant interval is for applications made in the spring. Because Alligare Rimsulfuron 25 DF degradation is slowed by cold, dry, or frozen soils, applications made in the fall should consider the replant interval as beginning in the spring following treatment.

Following a treatment with Alligare Rimsulfuron 25 DF at use rates up to 4.0 ounces of product per acre, the following grasses may be replanted at least 7 months after a spring application. Rainfall or irrigation of

at least ½ inch following treatment is necessary to replant 7 months after an Alligare Rimsulfuron 25 DF application. If the treated site does not receive at least 1/2 of rainfall or irrigation within four weeks after Alligare Rimsulfuron 25 DF application, then the grass replant interval is 12 months.

Crested wheatgrass	<i>Agropyron cristatum</i>
Intermediate wheatgrass	<i>Thinopyrum intermedium</i>
Blue bunch wheatgrass	<i>Pseudoroegneria spicata</i>
Squirreltail	<i>Elymus elymoides</i>
Beadless (creeping) wildrye	<i>Leymus triticoides</i>
Big bluegrass	<i>Poa ampla</i>
Idaho fescue	<i>Festuca idahoensis</i>
Smooth brome	<i>Bromus inermis</i>

Testing has indicated that there is considerable variation in response among species and types of grasses when seeded into areas treated with Alligare Rimsulfuron 25 DF. If species other than those listed above are to be planted into areas treated with Alligare Rimsulfuron 25 DF a field bioassay should be performed, or previous experience may be used to determine the feasibility of replanting treated areas. To conduct a field bioassay, grow to maturity test strips of the grass species you plan to grow the following year. The test strips should cross the entire field including knolls and low areas. Crop response to the bioassay will indicate whether or not to plant the grass species grown in the test strips.

### APPLICATION EQUIPMENT

Alligare Rimsulfuron 25 DF may be applied using ground or aerial spray equipment. Fixed wing aircraft and helicopters can be used to apply Alligare Rimsulfuron 25 DF; however, do not make application 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. Aerial equipment designed to minimize spray drift, such as a helicopter equipped with a Microfoil™ boom or raindrop nozzles, must be used and calibrated. Except when applying with a Microfoil™ boom, a drift control agent may be added at the labeled rate.

### APPLICATION RATES AND TIMING

Apply Alligare Rimsulfuron 25 DF at 2.0 to 4.0 ounces per acre in the fall or spring, prior to moisture expectation and plant growth. Do not apply when soil is frozen. For residual activity, moisture is required to activate Alligare Rimsulfuron 25 DF herbicide. When applied at lower rates in the spring, Alligare Rimsulfuron 25 DF provides suppression\* of weeds listed. When applied at higher rates in the fall, weed control is afforded.

\*Weed suppression is a visual reduction in weed competition (reduced population and/or vigor) as compared to an untreated check.

The degree of actual control that may occur will vary with the size of the weeds, the degree of weed or desirable grass competition, and environmental conditions.

### TANK MIXTURES

Alligare Rimsulfuron 25 DF may be tank mixed with other herbicides registered for use in rangeland. It may also be tank mixed with any adjuvants registered for rangeland use. 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.

Alligare Rimsulfuron 25 DF may be tank mixed with Alligare Chlorsulfuron 75 or Telar XP at the labeled rate to broaden the spectrum of broadleaf and grass weed control. Refer to the Alligare Chlorsulfuron 75 or Telar XP label for additional information on weed species controlled, use rates, and instructions or restrictions.

## WEEDS CONTROLLED

When applied at 2.0 ounces per acre in the spring, Alligare Rimsulfuron 25 DF suppresses the following weeds and when applied at 3.0 ounces per acre in the fall, Alligare Rimsulfuron 25 DF controls the following weeds:

Brome, downy (cheatgrass)	<i>Bromus tectorum</i>
Brome, Japanese	<i>Bromus japonicas</i>
Cheat	<i>Bromus secalinus</i>

When applied at 4 ounces per acre, Alligare Rimsulfuron 25 DF controls the following additional weeds:

Barnyardgrass	<i>Echinochloa crus-galli</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>
Foxtail, giant	<i>Setaria faberi</i>
Foxtail, green	<i>Setaria viridis</i>
Foxtail, yellow	<i>Setaria glauca</i>
Filaree, redstem	<i>Erodium cicutarium</i>
Fleabane, hairy	<i>Conyza bonariensis</i>
Mallow, common	<i>Malva neglecta</i>
Marestail/horseweed*	<i>Conyza canadensis</i>
Medusahead	<i>Taeniatherum caput-medusae</i>
Mustard, black	<i>Brassica nigra</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Puncturevine	<i>Tribulus terrestris</i>

\*Naturally occurring resistant biotypes of this weed are known to exist in some areas of the U.S. Alligare Rimsulfuron 25 DF will not control these biotypes.

## PRECAUTIONS

- Treatment of powdery, dry soil or light, sandy soil when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to susceptible crops when soil particles are moved by wind or water. Injury to crops may result if treated soil is washed, blown, or moved onto land used to produce crops. Exposure to Alligare Rimsulfuron 25 DF may injure or kill most crops.
- Injury may be more severe when the crops are irrigated. Do not apply Alligare Rimsulfuron 25 DF when these conditions are identified and powdery, dry soil or light or sandy soil are known to be prevalent in the area to be treated.
- In order to reduce the potential for off-site movement of Alligare Rimsulfuron 25 DF from wind or water related soil erosion do not burn, disk, or otherwise disturb treated sites between the time of application and reseeding or reestablishment of native grasses.
- Preemergence use on soils containing more than 6% organic matter may result in reduced weed control.
- Minimize spray drift to any adjacent crops, or planned crop planting areas, or desirable plants since injury may occur.
- Draining or flushing equipment on or near desirable trees or other plants, or in areas where their roots may extend, or in location where the chemical may be washed or moved into contact with their roots may injure these plants.
- Crops (especially crops other than pome fruit, tree nuts, stone fruit, citrus, grapes, potatoes, tomatoes, and field corn) whose roots extend into a treated area may be injured.

## RESTRICTIONS

- Do not apply more than 4.0 ounces of Alligare Rimsulfuron 25 DF (0.0625 lbs a.i.) per acre per year.
- Make a maximum of 8 applications per year
- Do not graze or feed forage, grain, or fodder (stover) from treated areas to livestock within 30 days of Alligare Rimsulfuron 25 DF application.
- Do not contaminate any body of water, including irrigation water that may be used on other crops.



- Do not treat frozen soil.
- Do not apply in or on irrigation ditches or canals including their outer banks.
- Do not apply through any type of irrigation system.

If restoration sites treated with Alligare Rimsulfuron 25 DF are to be converted to an agricultural use other than rangeland, refer to the rotational crop instructions below.

For the crops listed below, planting prior to the interval shown may result in crop injury when using Alligare Rimsulfuron 25 DF. Rotation intervals may need to be extended to 18 months if drought conditions prevail after application and before the rotational crop is planted, unless supplemental sprinkler irrigation has been applied and an amount greater than 15" has been applied during the growing season. For tank mixtures, follow the most restrictive rotational crop guideline.

<b>Rotational Crop</b>	<b>Time Interval Before Planting (months)<sup>1</sup></b>
Beans, Dry	10
Beans, Snap	10
Corn, Field	Anytime
Corn, Sweet	10
Cotton	10
Cucumber	10
Garlic	6
Potatoes	Anytime
Soybeans	10
Tomatoes	Anytime
Wheat, Winter	4
Crops Not Listed	12

<sup>1</sup>Rotational crops may be planted at indicated intervals provided the fields are deep disked or plowed, and thorough soil mixing is achieved, prior to planting the rotational crop.

## **WEED CONTROL ALONG ROADSIDES, HIGHWAY MEDIANS, AT INDUSTRIAL PLANT SITES, AND AT UTILITY SUBSTATIONS [(NOT REGISTERED FOR THESE USES IN NEW YORK STATE)]**

### **INFORMATION**

Alligare Rimsulfuron 25 DF may be used in weed management programs along roadsides, highway medians, at industrial plant sites, and utility substations for control of a number of grass and broadleaf weeds. Where food and/or feed crops are grown or in areas where food and/or feed crops are planned to be grown, care should be taken to prevent any direct spray of Alligare Rimsulfuron 25 DF onto or to drift to these crops or planned planting areas since severe crop injury may occur.

### **APPLICATION INFORMATION**

Apply Alligare Rimsulfuron 25 DF at rates up to 4 ounces per acre in broadcast application making sure that coverage is uniform. Use a minimum of 10 gallons of spray solution per acre. Nozzle selection should meet manufacturer's spray volume and pressure recommendations for preemergence or postemergence herbicide applications.

**Preemergence:** Alligare Rimsulfuron 25 DF must be activated by rainfall and applied when soil temperatures are cool for best preemergence and residual activity. Make applications to take advantage of normal rainfall patterns (minimum of ½ inch) and cooler temperatures. For best results, moisture for activation should occur within 2 to 3 weeks after application. To provide a broader spectrum of residual weed control, Alligare Rimsulfuron 25 DF may be applied in a tank mixture with other registered preemergence herbicides. When weeds are present at application, include a labeled burn down herbicide such as glyphosate, paraquat, or glufosinate with an appropriate adjuvant. When applied according to the use directions, Alligare, Rimsulfuron 25 DF will provide residual (preemergent) control of the following weeds:

## PREEMERGENCE

GRASSES	BROADLEAVES
Barnyardgrass	Filaree, Redstem
Crabgrass, Large	Fleabane, Hairy
Foxtails (Giant, Green, Yellow)	Mallow, Common
	Marestail/horseweed <sup>1</sup>
	Mustard, Black
	Pigweeds (Redroot, Smooth)
	Puncturevine

<sup>1</sup>Naturally occurring resistant biotypes of this weed are known to exist in some areas of the U.S. Alligare Rimsulfuron 25 DF will not control these biotypes.

**Postemergence:** For best results, make postemergence applications of Alligare Rimsulfuron 25 DF to young, actively growing weeds and include a spray adjuvant. Refer to the label of the tank mix partner(s) for any additional use instructions or restrictions. Follow the most restrictive labeling of any tank mix component products.

### Tank Mixtures

Alligare Rimsulfuron 25 DF may be tank mixed with other herbicides registered for use along roadsides, highway medians, at industrial plant sites, and utility substations. It may also be tank mixed with any adjuvants registered for roadside, plant site, or utility substation use. 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.

### Restrictions

- Do not apply more than 4 ounces of Alligare Rimsulfuron 25 DF (0.0625 lb a.i.) per acre per year.
- Make a maximum of 8 applications per year.
- Do not mix in spray solution or with spray additives that buffer the pH to below 4 or above 8, as degradation of Alligare Rimsulfuron 25 DF may occur.
- Do not apply in or on irrigation canals or ditches including their outer banks.
- Do not contaminate any body of water including irrigation water that may be used on other crops.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store product in original container only.

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

### CONTAINER HANDLING:

**[PLASTIC CONTAINERS:]** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**[PLASTIC BAG:]** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

## LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY

Upon purchase or use of this product, purchaser and user agree to the following terms:

**Warranty:** Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use,

subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. No such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

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

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

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

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[EPA approval date]