



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

62719-729

Date of Issuance:

9/4/2018

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

GF-3479

Name and Address of Registrant (include ZIP Code):

Corteva Agriscience™
Agriculture Division of DowDuPont™
9330 Zionsville Rd., Bldg 308/ 2E-232
Indianapolis, IN 46268-1054

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Kathryn V. Montague, Product Manager 23
Herbicide Branch, Registration Division (7505P)

Date:

9/4/2018

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 62719-729.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

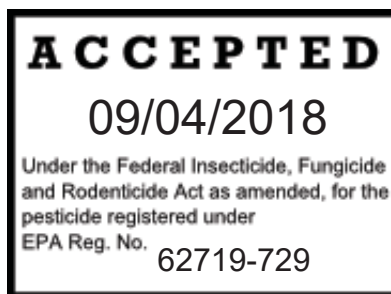
Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 10/13/2017

If you have any questions, please contact Kathryn Montague by phone at 703-305-1243, or via email at montague.kathryn@epa.gov.

Enclosure



(Base label):

GF-3479**HERBICIDE**
with Rinskor™ Active

For selective postemergence grass, sedge, and broadleaf weed control in rice in the states of Arkansas, Florida, Louisiana, Mississippi, Missouri, Tennessee and Texas

Group	4	1	HERBICIDE
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Active Ingredient:

florpyrauxifen-benzyl: 2-pyridinecarboxylic acid,
4-amino-3-chloro-6-(4-chloro-2-fluoro-3-
methoxy-phenyl)-
5-fluoro-, phenyl methyl ester 1.27%
cyhalofop: 2-[4-(4-cyano-2- fluorophenoxy)
phenoxy] propanoic acid,
butyl ester, (R) 16.9%

Other Ingredients 81.83%

Total 100.0%

Contains 0.10 lb florpyrauxifen-benzyl and 1.31 lb cyhalofop per gallon.

Keep Out of Reach of Children**CAUTION**

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if swallowed • Causes Moderate Eye Irritation

Avoid contact with 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.

Personal Protective Equipment (PPE)**Applicators and other handlers must wear:**

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

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: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], 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.

First Aid

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Note to Physician: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to fish and aquatic invertebrates. For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark except when treating rice fields as specified in this product label. Drift and runoff from ground or aerial applications is likely to result in damage to sensitive aquatic organisms in water bodies adjacent to the treatment area. Do not contaminate water when disposing of equipment wash waters or rinsate.

Groundwater: Cyhalofop demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Surface Water: This chemical can contaminate surface water through spray drift from aerial and ground application equipment. Treated rice field water can contaminate surface water through accidental release or overflow, or by deliberate release due to normal growing practices, including interim or final release of flood water at harvest.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Nonrefillable containers 5 gallons or less:

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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

Refillable containers larger than 5 gallons:

Storage and Disposal

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

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Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container.

Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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

Refer to the inside of label booklet for additional precautionary information including directions for use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are not acceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. _____

™® Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

NET CONTENTS __

(cover/shipping container)

GF-3479

HERBICIDE

with Rinskor™ Active

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Group	4	1	HERBICIDE
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Active Ingredient:

florpyrauxifen-benzyl: 2-pyridinecarboxylic acid,
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5-fluoro-, phenyl methyl ester 1.27%
cyhalofop: 2-[4-(4-cyano-2-fluorophenoxy)
phenoxy] propanoic acid,
butyl ester, (R) 16.9%

Other Ingredients 81.83%

Total 100.0%

Contains 0.10 lb florpyrauxifen-benzyl and 1.31 lb cyhalofop per gallon.

Keep Out of Reach of Children

CAUTION

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**Produced for
Dow AgroSciences LLC**

**9330 Zionsville Road
Indianapolis, IN 46268**

NET CONTENTS __

(Page 1 through end):

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CAUTION

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Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
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Surface Water: This chemical can contaminate surface water through spray drift from aerial and ground application equipment. Treated rice field water can contaminate surface water through accidental release or overflow, or by deliberate release due to normal growing practices, including interim or final release of flood water at harvest.

Directions for Use

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

Read all Directions for Use carefully before applying.

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.

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 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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

Refillable containers larger than 5 gallons:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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Product Information

GF-3479 herbicide is a postemergence herbicide for selective control of susceptible grass, sedge and broadleaf weeds in rice. Susceptible weeds emerged at the time of application will be controlled. A minimum spray volume of 10 gallons per acre (gpa) applied either by air or ground application and uniform coverage are required for optimum performance. GF-3479 is rainfast within 2 hours after application.

Any crop stress or environmental factors which influence plant health may impact efficacy and crop tolerance. Such crop effects are transient. Rice crops grown under adverse environmental conditions, such as extreme cold or heat, may express temporary crop response when GF-3479 is applied including slight height reduction or leaf malformations. GF-3479 may be used on all rice varieties and hybrids, including herbicide tolerant varieties. Crop response, in some cultivars that are highly sensitive to herbicides, could be observed with GF-3479. For specifics on cultivars and crop response, contact your local Dow AgroSciences representative.

Use Precautions

- Poor weed control and rice crop response may result from application of GF-3479 made to plants under stress from abnormally hot or cold weather; environmental conditions such as drought, hail

- damage, prior herbicide applications, or soils with high salt content.
- Re-infestation of some weeds may occur if a permanent flood is not established in a timely manner (5 days or sooner after application).
- Application of GF-3479 to fields which have been leveled (except water leveling) within 12 months prior to application may result in serious rice injury in areas that have been cut or filled.
- Reduced weed control may result if application of GF-3479 is made to grass weeds under stress from prior herbicide applications, preventing active growth. To help avoid reduce control, delay the application of GF-3479 until grass weeds resume active growth.
- If applied to heading grass weeds, heavy weed densities and/or previously untreated areas (salvage treatment), only partial control or suppression should be expected from GF-3479. Regrowth of these grass weeds may occur.
- If the spray solution pH of GF-3479 is >8, a buffering agent should be used to lower the pH to <8.

Use Restrictions

- **Preharvest Interval:** Do not apply within 60 days of rice harvest.
- Do not make more than 1 application per year (maximum of 30 fl oz or 1.75 pints of GF-3479 per acre per year).
- Do not apply to ratoon rice.
- Do not rotate treated land to crops other than rice for 3 months following application.
- Do not apply where runoff or irrigation water may flow directly onto agricultural land.
- Do not tank mix GF-3479 with malathion or methyl parathion. Do not make an application of malathion or methyl parathion within 7 days of an application of GF-3479. See additional tank mix restrictions below.
- Do not apply GF-3479 directly to, or otherwise permit GF-3479 to come into contact with carrots, cotton, soybeans, grapes, tobacco, vegetable crops, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious injury may occur. Do not permit spray mists containing GF-3479 to drift onto desirable broadleaf plants.
- Do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment with GF-3479.
- Do not allow tank mixes of GF-3479 to sit overnight. See additional tank mix restrictions below.
- Do not overlap or double spray of field edges.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not use on wild rice.
- Do not mix with products that contain propanil.
- Always use clean water with spray mixes of GF-3479. Do not use water containing rinsate from a previous spray solution, even at low concentrations, as this may reduce grass weed control from GF-3479.
- Do not apply GF-3479 if grass weeds are under drought or hydrogen sulfide stress.
- Do not use organosilicone surfactants in spray mixtures of this product.
- Do not use treated water for any form of irrigation.
- Do not use treated water for hydroponic farming.
- Make applications in a minimum of 10 gallons per acre (GPA) for ground and aerial applications.
- Do not compost any plant material from treated area.
- To minimize potential exposure in compost, do not allow livestock to drink treated water.
- Do not apply to salt/brackish water.

Mixing Instructions

Use of Adjuvants

Additional adjuvant is not required with GF-3479.

GF-3479 - Alone

Fill spray tank to one-half full with water. Start agitation. Add correct quantity of GF-3479. Continue agitation while filling spray tank to required volume and during application.

GF-3479 - Tank Mixes

DO NOT TANK MIX ANY PESTICIDE PRODUCT WITH THIS PRODUCT without first referring to the following website for the specific product: www.3479tankmix.com. This website contains a list of active ingredients that are currently prohibited from use in tank mixture with this product.

Continuous agitation is required for tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks.

Tank Mixing Restrictions:

Only use products in tank mixture with this product that: 1) are registered for the intended use site, application method and timing; 2) are not prohibited for tank mixing by the label of the tank mix product; and 3) do not contain one of the prohibited active ingredients listed on www.3479tankmix.com website.

Applicators and other handlers (mixers) must access the website within one week prior to application in order to comply with the most up-to-date information on tank mix partners.

Do not exceed specified application rates for respective products or maximum allowable application rates for any active ingredient in the tank mix.

Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels. It is the pesticide user's responsibility to ensure that all products in the mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

When mixing with products that recommend additional adjuvant the total adjuvant need may partially or totally be met with GF-3479. Excess adjuvant may result in rice injury and reduced efficacy.

Do not mix GF-3479 with products that contain propanil.

Tank Mix Compatibility Testing: When tank mixing GF-3479 with other permitted materials, a compatibility test (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately one-half (1/2) hour. If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Order: Fill the tank one-third (1/3) full with water. Start the agitation. Different formulation types should be added in the following order: dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), or liquids (L). Allow each product type to completely disperse before adding another. Continue agitation and fill tank to three-fourths (3/4) full, add the correct quantity of GF-3479 and mix thoroughly. Finally, add any solution (S) formulations. Maintain agitation during filling and during application. If spraying and agitation must be stopped before the tank is empty, suspended materials may settle to the bottom. It is important to resuspend all of the settled material before continuing application. A sparger agitator is particularly useful for this purpose. Do not allow tank mixes to set overnight.

Carefully follow all mixing instructions for each material added to the tank. Initial dispersion of dry or flowable formulations can be improved by mixing with a small amount of water (slurrying) and pouring the slurry through a 20 to 35 mesh wetting screen in the top of the spray tank. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Clean-Out Procedures for Spray Equipment

1. Drain any remaining spray mixture from the application equipment, then wash out tank, boom, and hoses with clear water. Drain again.

2. Hose down the interior surfaces of the tank while filling the tank 1/2 full of water.
3. Add commercial tank cleaner, such as household ammonia, at a rate of 1 gallon per 100 gallons of water. Recirculate for 10 – 20 minutes and spray out the mixture through the boom.
4. Remove all spray nozzles and screens and clean separately.
5. If spray equipment will be used for pesticide application to crops sensitive to GF-3479, repeat steps 1 through 3.
6. Thoroughly clean exterior surfaces of spray equipment.

Rinsate may be disposed of onsite according to label use directions or at an approved waste disposal facility. Reduced results may occur if water containing soil is used, such as visibly muddy water or water from ponds and ditches that is not clear.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings. Spray drift may damage or render crops unfit for sale, use or consumption. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants. **Before making an application, please refer to your state's sensitive crop registry (if available) to identify any commercial specialty or certified organic crops that may be located nearby.**

Do not apply when wind is blowing toward adjacent cotton, carrots, soybeans, corn, grain sorghum, wheat, grapes, tobacco, vegetable crops, flowers, ornamental shrubs or trees, or other desirable broadleaf plants.

Spray Drift Management

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

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

Aerial Application:

- Aerial applicators must use a minimum finished spray volume of 10 gallons per acre.
- Drift potential is lowest between wind speeds of 2 to 10 mph. Do not apply below 2 mph due to variable wind direction and high potential for temperature inversion. Do not apply in wind speeds greater than 10 mph.
- To minimize spray drift from aerial application, apply GF-3479 with a nozzle class that ensures coarse or coarser spray (according to ASABE S572) at spray boom pressure no greater than 30 psi.
- The distance of the outer most operating nozzles on the boom must not exceed 70% of wingspan or 80% of rotor diameter.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
- Do not apply under conditions of a low level air temperature inversion.
- The maximum release height must be 10 feet from the top of the crop canopy, unless a greater application height is required for pilot safety.

Evaluate spray pattern and droplet size distribution by applying sprays containing a water-soluble dye marker or appropriate drift control agents over a paper tape (adding machine tape). Mechanical flagging devices may also be used. Do not apply under conditions of a low level air temperature inversion. A temperature inversion is characterized by little or no wind and lower air temperature near the ground than at higher levels. The behavior of smoke generated by an aircraft-mounted device or continuous smoke column released at or near site of application will indicate the direction and velocity of air movement. A temperature inversion is indicated by layering of smoke at some level above the ground and little or no

lateral movement.

Ground Application

- Ground applicators must use a minimum finished spray volume of 10 gallons per acre.
- To minimize spray drift from ground application, apply GF-3479 with a nozzle class that ensures coarse or coarser spray (according to ASABE S572).
- For boom spraying, the maximum release height is 36 inches from the soil for ground applications.

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

The applicator should be familiar with and take into account the information covered in the following Aerial Drift Reduction Advisory. (This information is advisory in nature and does not supersede mandatory label requirements.)

Aerial Drift Reduction Advisory

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

Controlling Droplet Size:

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: To further reduce drift without reducing swath width, boom must not exceed 70% of wingspan or 80% of rotor diameter.

Application Height: Do not make applications at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

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

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Do not make applications below 2 mph due to variable wind direction and high inversion potential. Do not apply in wind speeds greater than 10 mph. Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

Temperature Inversions: Do not apply during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the 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.

Application Instructions

Environmental Conditions and Herbicidal Activity of GF-3479

Factors for effective weed control with GF-3479 include proper application rate, weed size, daytime and nighttime temperatures, and soil moisture prior to and following application. Best weed control results are obtained when GF-3479 is applied to actively growing weeds, when daytime and nighttime temperatures are warm (60°F or more), and soil moisture is adequate to support active weed growth prior to and following application. If weeds are under drought stress, it is recommended to delay application until more favorable conditions resume. Application when weeds are larger than the recommended size (see recommended weed size in Weed Control Table) for control may result in only partial control.

- GF-3479 is rainfast in 2 hours.
- Applications made immediately prior to, during, or immediately following periods of large day/night temperature fluctuations or where daytime and nighttime temperatures do not exceed 60°F may decrease weed control and increase crop response.
- Poor weed control and crop response may result from application of GF-3479 made to plants under stress from abnormally hot or cold weather; environmental conditions such as drought, or hail damage, prior herbicide applications or soils with high salt content.
- Establishing permanent flood < 5 days after application of GF-3479 can benefit weed control.
- Permanent flood in drill-seeded rice can begin to be established 2 hours after application.

Aerial Application

Apply in a spray volume of 10 gpa or more when applying by air. Apply with coarse to coarser droplet category per S-572 ASABE standard; see NAAA, USDA or nozzle manufacturer guidelines. Follow guidelines in the Spray Drift Management and Aerial Drift Reduction Advisory to minimize potential drift to off-target vegetation. Aircraft should be patterned per Operation Safe/PAASS program for calibration and uniformity to provide sufficient coverage and control.

Buffer Zones

The active ingredient cyhalofop can damage certain sensitive crops, therefore the following buffers must be observed when applying this product. Buffer zones are defined as the distance between the application site and the sensitive crop. For aerial applications, follow recommendations in Spray Drift Management and Aerial Drift Reduction Advisory sections, in addition to the recommended buffers, to minimize potential drift to off-target vegetation. Do not apply GF-3479 when wind speeds are less than 3 mph or greater than 10 mph. The potential for injury to non-target cereal and grass crops is less likely under conditions of advanced growth stages, low wind, and dry soil moisture conditions. The buffer zones listed below must be followed:

Sensitive Crop	Ground Restrictions (ft)	Aerial Restrictions
non-target cereal and grass crops such as corn, sugar cane sudangrass, sorghum, grass grown for seed, millet, and sod farms.	50	150 feet
commercial peach and nectarine orchards	660	2 miles if wind blowing from treatment area away from sensitive crop. 4 miles if wind blowing from treatment area toward sensitive crop.

Ground Application

Apply in a spray volume of 10 gpa or more when applying by ground. Use coarse or coarser nozzle spray quality per S-572 ASABE standard; see USDA literature or nozzle manufacturer guidelines. Follow nozzle manufacturer's recommendations for nozzle pressure, spacing and boom height to provide a uniform spray pattern. Follow appropriate Spray Drift Management information where drift potential is a concern.

Application Timing

GF-3479 herbicide may be applied to rice from 2 leaf stage (drill-seeded rice or water-seeded rice) with no exposed roots up to 60 days before harvest. Refer to weed control table for application timing and weed size information. Do not apply if crop or weeds are under drought stress.

Water-Seeded Rice:

Fields must be partially drained to expose weeds prior to application. Residual water remaining in the field does not adversely affect weed control so long as weeds are at least 70% exposed. For delayed flood application, do not allow excessive drying of the soil which may cause the weeds to become drought stressed, resulting in unacceptable weed control. For best results, soils should be moist at application and maintain good soil moisture after application by flushing or rainfall until establishment of permanent flood. If flushing following an application, take steps necessary to ensure all water remains in the field. After an application of GF-3479 to a partially drained field with standing water present over the entire field, wait at least 3 hours before beginning the establishment of the permanent flood.

Drill-Seeded Rice:

GF-3479 is recommended as a preflood application. Adequate soil moisture for actively growing weeds is essential for preflood applications. Flushing of rice fields may be necessary prior to application if rice or weeds are moisture stressed. Residual water remaining in the field does not adversely affect weed control as long as weeds are at least 70% exposed. For best results, soils should be moist at application and maintain good soil moisture after application by flushing or rainfall until establishment of permanent flood. If flushing following an application, take steps necessary to ensure all water remains in the field. Re-infestation of some weeds may occur if a permanent flood is not established in a timely manner (5 days or sooner after application).

Postflood: Prior to application, the flood water must be lowered to expose at least 70% of the weed foliage. A shallow flood depth in the field (1 to 2 inches deep) will not adversely affect weed control. For best results, re-establishment of normal flood depth should begin within 3 hours after application to prevent germination of new weeds.

If GF-3479 is applied as a salvage treatment (e.g., heavy weed infestations, headed weeds, failure of previous herbicide applications, and/or previously untreated areas), it should be considered an emergency salvage treatment. Good control of labeled weeds should not be expected. Regrowth of treated weeds may occur.

Resistance Management

GF-3479 contains two active ingredients with different modes-of-action. Cyhalofop-butyl is an inhibitor of ACCase (WSSA Group 1; HRAC Group A) and florypyrauxifen-benzyl is classified as an auxin herbicide (WSSA Group 4; HRAC Group O). Weed populations may develop biotypes that are resistant to different herbicides with the same mode of action. If herbicides with the same mode of action are used repeatedly in the same field, resistant biotypes may eventually dominate the weed population and may not be controlled by these products. Other resistance mechanisms, such as enhanced metabolism, may also exist and may cause reduced weed control. The mode of action of florypyrauxifen-benzyl on grass species is distinct from quinclorac (Facet) a Group 4 and Group 26 herbicide and there is no known cross resistance between existing populations of barnyardgrass resistant to quinclorac.

This product should be used as part of an Integrated Pest Management (IPM) program that may include biological, cultural, and chemical practices aimed at preventing economic pest damage. Application of this product should be based on appropriate IPM and resistance management strategies and practices that delay or reduce the development of herbicide-resistant weed biotypes. Such practices include, but are not limited to, field scouting, use of weed free crop seed, proper water management, correct weed pest identification, following rotational practices outlined on pesticide labels, and treating when target weed populations are at the correct stage and economic thresholds for control.

To delay development of herbicide resistance, the following practices are recommended:

- Alternate use of products containing florypyrauxifen-benzyl with other products with different mechanisms of action.
- GF-3479 can be tank mixed or used sequentially with other approved products to broaden the spectrum of weed control, provide multiple modes of action and control weeds that GF-3479 does not control.
- Herbicides should be used based on an IPM program.
- Monitor treated areas and control escaped weeds.
- Contact local extension or crop advisor for IPM and resistance management information.

Application Rates and Weeds Controlled or Suppressed

At a rate of 30 fl oz/acre (1.75 pints/acre) the following weeds are either controlled or suppressed:

Common Name ¹	Scientific Name	Controlled (C) or Suppressed (S)	Maximum Growth Stage
barnyardgrass ^{2,3}	<i>Echinochloa crus-galli</i>	C	3 tiller
broadleaf signalgrass ^{2,3}	<i>Urochloa platyphylla</i>	C	5 leaf
large crabgrass	<i>Digitaria sanguinalis</i>	C	4 leaf
fall panicum ⁶	<i>Panicum dichotomiflorum</i>	C	4 leaf
goosegrass	<i>Eleusine indica</i>	S	4 leaf
jungerice ^{2,3}	<i>Echinochloa colona</i>	C	3 tiller
bearded sprangletop ⁶	<i>Leptochloa fascicularis</i>	C	4 leaf
red sprangletop ⁶	<i>Leptochloa filiformis</i>	C	4 leaf
tighthead sprangletop ⁶	<i>Leptochloa panicoides</i>	C	2 tiller
rice flatsedge ^{2,3}	<i>Cyperus iria</i>	C	8"
purple nutsedge ^{2,3}	<i>Cyperus rotundus</i>	C	6"
yellow nutsedge ^{2,3}	<i>Cyperus esculentus</i>	C	8"
Smallflower umbrellasedge ^{2,3}	<i>Cyperus difformis</i>	C	4"
alligatorweed	<i>Alternanthera philoxeroides</i>	C	12" runners
Ammannia (red stem)	<i>Ammannia coccinea</i>	C	8"
Arrowhead / bulltongue / grassy arrowhead	<i>Sagittaria</i> spp.	C	10"
common ragweed	<i>Ambrosia artemisiifolia</i>	C	8"
ducksalad	<i>Heteranthera limosa</i>	C	4 leaf
eclipta	<i>Eclipta prostrata</i>	C	6"

falsepimpernel, low	<i>Lindernia dubia</i>	C	6"
hemp sesbania	<i>Sesbania herbacea</i>	C	24"
horseweed	<i>Conyza</i> spp.	C	6"
jointvetch, Indian	<i>Aeschynomene indica</i>	C	12"
jointvetch, northern	<i>Aeschynomene virginica</i>	C	12"
Palmer amaranth ⁴	<i>Amaranthus palmeri</i>	C	8"
pitted morningglory ⁵	<i>Ipomoea lacunosa</i>	C	8"
redroot pigweed	<i>Amaranthus retroflexus</i>	C	8"
redweed	<i>Melochia corchorifolia</i>	C	8"
roundleaf mudplantain	<i>Heteranthera reniformis</i>	C	6"
spreading dayflower	<i>Commelina diffusa</i>	C	6"

¹Efficacy of a Rinskor Active + Cyhalofop Premix in U.S. MidSouth Rice

²Includes ALS-, propanil- and quinclorac-resistant species.

³Greatest efficacy can be achieved when applied 5 days or sooner to establishment of permanent flood.

⁴Includes ALS- and glyphosate-resistant species.

⁵Morningglory species other than pitted morningglory are not controlled by GF-3479.

⁶For preflood applications, maximum growth stage for control is 4 leaf. Following permanent flood, maximum growth stage for control is prior to grass weed heading.

Use Restrictions

- Do not make more than 1 application per year (maximum of 30 fl oz of GF-3479 per acre per year).
- Do not apply to ratoon rice.

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