



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

4 FEB 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Rafael Herrera
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

Dear Mr. Herrera:

SUBJECT: Label Amendment
Clincher SF
EPA Registration No. 62719-357
Use on Wild Rice, Removal of Engineering Controls
and Limitation to Amounts of Acres Treated by Aerial
Application as a Result of Change in Cancer Classification

The label amendment referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) copy of your final printed labeling before you release the product for shipment. This amended label supersedes all previously accepted labels. A copy of the review is enclosed for your records.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505P)

Enclosures

2/21

(Base label for rigid containers 5 gal or less):

Clincher® SF

Herbicide

For selective postemergence grass weed control in rice

Active Ingredient(s):

cyhalofop: 2-[4-(4-cyano-2- fluorophenoxy) phenoxy] propanoic acid, butyl ester, (R).....	29.6%
Other Ingredients	70.4%
Total	100.0%

ACCEPTED
4 FEB 2009

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

62719-359

Contains 2.38 lb of active ingredient per gallon.
Contains petroleum distillates.

Keep Out of Reach of Children

WARNING AVISO

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Substantial, But Temporary Eye Injury • Causes Skin Irritation • Harmful If Swallowed

Do not get in eyes or on skin or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F or G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear (goggles, face shield or safety glasses)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

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 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

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- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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 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.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Note to Physician: Contains petroleum distillate - vomiting may cause aspiration pneumonia. No specific antidote. Provide supportive care. Treatment should be based on physician's judgment in response to reactions of the patient.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This product is toxic to fish and aquatic invertebrates. 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 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.

NOTE: See Surface Water and Groundwater advisories in label booklet under Environmental Hazards.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame.

Agricultural Use Requirements

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

Storage and Disposal

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

Pesticide Storage: Store in cool dry place in original container.

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

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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

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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 label booklet for 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 unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

EPA Reg. No. 62719-357

EPA Est. _____

®Trademark of Dow AgroSciences LLC

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

Net Contents _____

5/21

(Base label for refillable rigid containers larger than 5 gal):

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Herbicide

For selective postemergence grass weed control in rice

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cyhalofop: 2-[4-(4-cyano-2-fluorophenoxy) phenoxy] propanoic acid, butyl ester, (R).....	29.6%
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- Chemical-resistant footwear plus socks
- Protective eyewear (goggles, face shield or safety glasses)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

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 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

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Combustible. Do not use or store near heat or open flame.

Agricultural Use Requirements

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Storage and Disposal

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

Pesticide Storage: Store in cool dry place in original container.

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

Container Reuse: 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 a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, 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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Refer to inside of label booklet for additional precautionary information including Directions for Use.

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(Page 1 through end):

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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

Groundwater: This chemical 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.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame.

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 over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear (goggles, face shield or safety glasses)

Storage and Disposal

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

Pesticide Storage: Store in cool dry place in original container.

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

Nonrefillable containers 5 gallons or less:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

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 5 gallons or larger:

Container Reuse: 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 a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, 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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General Information

Clincher® SF herbicide is a postemergence herbicide for selective control of grass weeds in drilled and water seeded rice. A spray volume of 10 gallons or more per acre (gpa) and uniform coverage are required for optimum performance. Clincher SF is rainfast within 2 hours after application and has no preemergence or soil residual activity. Only actively growing grass weeds emerged at the time of application are controlled. Clincher SF will not control broadleaf weeds or sedges. The product may also be applied for control of susceptible grass weeds in ratoon rice up to 60 days before harvest.

General Use Precautions and Restrictions

- **Preharvest Interval:** Do not apply within 60 days of rice harvest.
- Do not apply more than 15 fl oz of Clincher SF per acre in a single application. Do not make more than 2 applications or apply more than 25 fl oz of Clincher SF per acre during the growing season including first and ratoon rice crops. Sequential applications of Clincher SF must be made at least 10 days apart.
- Do not rotate treated land to crops other than rice for 3 months following application of Clincher SF.
- Do not fish or commercially grow fish, shellfish or crustaceans on acres treated with Clincher SF during the year of treatment.
- Do not apply Clincher SF if grass weeds are under drought or hydrogen sulfide stress.

- Reduced weed control may result if application of Clincher SF is made to grass weeds under stress from prior herbicide applications, preventing active growth. To help prevent reduced control, delay the application of Clincher SF 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 Clincher SF. Regrowth of these grass weeds may occur.
- Clincher SF does not control ACC'ase resistant weeds.
- If the spray solution pH of Clincher SF is >8, a buffering agent should be used to lower the pH to <8.
- Always use clean water with spray mixes of Clincher SF. Do not use water containing rinsate from a previous spray solution, even at low concentrations, as this may reduce grass weed control from Clincher SF.
- **Chemigation:** Do not apply this product through any type of irrigation system.

Mixing Instructions

Use of Adjuvants

Use of an agriculturally approved crop oil concentrate or methylated seed oil at a minimum rate of 1 quart per acre must be used for all applications of Clincher SF. Read and follow all precautions on crop oil concentrate label.

Clincher SF - Alone

Fill spray tank to one-half (1/2) full with water. Start agitation. Add correct quantity of Clincher SF and adjuvant. Continue agitation while filling spray tank to required volume and during application.

Clincher SF in Tank Mixes

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

Clincher SF may be applied in tank mix combination with labeled rates and timings of Grasp™ SC herbicide (penoxsulam), Pendimax® 3.3 herbicide (pendimethalin), Prowl (pendimethalin), Facet (quinclorac) or Command (clomazone) for early postemergence, pre-flood application in rice. When tank mixing, follow label directions, including application rates, use precautions and limitations on each respective label. State regulations may apply. Reduced grass weed control may result if Clincher SF is applied in tank mix combination with or immediately following other herbicides not listed above, especially if applied under conditions of plant stress and/or advanced grass weed growth stages. To avoid the potential of reduced grass weed control, apply Clincher SF to actively growing, non-stressed grass weeds at least 5 days before or 7 days after the application of herbicides not listed above.

Mixing Order: Always use clean water with spray mixes of Clincher SF. Do not use water containing rinsate from a previous spray solution, even at low concentrations, as this may reduce grass weed control from Clincher SF.

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 the spray tank to three-fourths (3/4) full, add the correct quantity of Clincher SF or other emulsifiable concentrates (EC) and mix thoroughly. Finally, add any solution (S) formulations or surfactant, agitate and finish filling. 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.

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).

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Application Guidelines

Broadcast Spray Volume

A spray volume of 10 gpa or more and uniform coverage are required for optimum performance when applying by air equipment. Apply using medium size droplets that provide sufficient coverage and weed control per ASABE S-572 standard; see NAAA, USDA or nozzle manufacturer's recommendations.

Aerial Application

Apply at a height that provides the most effective swath width for the aircraft. Follow recommendations in the Aerial Spray Drift 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. Operators are expected to stay up to date on the most recent technology and resources for minimizing drift and maximizing coverage.

Ground Application

Applying Clincher SF by ground application is not recommended.

Avoiding Injury to Non-Target Plants

Do not apply this product where drift may be a problem due to proximity to susceptible crops or other desirable plants. See Buffer Zones below for restrictions.

Spray drift produced during application is the responsibility of the applicator and care should be taken to minimize off-target movement of spray during application. A drift control agent suitable for agricultural use may be used with this product to aid in reducing spray drift. However, if a drift control agent is used, weed control may be reduced. If used, follow all use recommendations and precautions on the product label.

Buffer Zones

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 Clincher SF 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.

Spray Drift Management

Avoiding spray drift is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. Make applications only when there is little or no hazard from spray drift. The applicator and grower are responsible for considering all of these factors when making decision to apply this product.

The following drift management guidelines are recommended to avoid off-target drift movement from aerial applications:

1. The distance between the outer most nozzles on the boom must not exceed 70% of the wingspan of fixed-wing aircraft or 80% of the helicopter rotor width.
2. Nozzles must always point backward parallel to the air stream and never downward more than 45 degrees.
3. Recommended nozzles must produce medium to coarse spray droplets per ASABE S-572 Standard.

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

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory. In general, the best drift management strategy is to apply the largest droplets that provide sufficient coverage and control.

Aerial Drift Reduction Advisory

Information on Droplet Size: 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.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the air stream and never downward more than 45 degrees produces larger droplets than other orientations and is the recommended practice. 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, but may reduce coverage and weed control.

Boom Length: Reducing the effective boom length to 70% of the wingspan of fixed-wing aircraft or 80% of the helicopter rotor width may further reduce drift without reducing swath width. Follow EPA and state regulations and recommendations.

Application Height: Applications should not be made 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 downward. 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 3 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

Temperature Inversions: Applications should not occur 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.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Application Timing

Clincher® SF herbicide may be applied to rice from the 1 leaf stage up to 60 days before harvest. Within this application window, application timing is dependent upon cultural practices and optimum timing for weed species present. (See Weeds Controlled and Application Rates table.)

Drill Seeded Rice

Preflood: Clincher SF is recommended as a preflood application. Apply to grass weeds in the 1 to 4 leaf stage (see table below). Tank mixing recommendations are described below. Good soil moisture conditions (saturated soil) and actively growing grass weeds are essential for preflood applications. For this reason, levee grass weeds may not be fully controlled by Clincher SF. Ground application of Clincher SF is not recommended as weed control may be reduced.

Flushing of rice fields may be necessary prior to application if rice or grass weeds are moisture stressed. If a field is flushed, make sure the field is drained prior to treatment so that grass weeds are fully exposed. Clincher SF should be tank mixed with a residual grass control product to prevent additional grass weed germination after treatment (see Clincher SF in Tank Mixes section).

Postflood: Best results will be obtained from applications made within 7 to 10 days after flooding. Maintaining the flood at application is recommended so long as grass weeds are at least 70% exposed. If fields are drained at application, they should be re-flooded beginning 2 hours after application and within 24 to 48 hours to prevent germination of new weeds. Following application, it is important to maintain a flood of at least 2 to 4 inches across the field to reduce the risk of grass weed regrowth. A permanent flood following application will give the best results. For this reason, levee grass weeds may not be fully controlled by Clincher SF.

For extremely heavy grass densities, a sequential application program of Clincher SF can be made at 15 fl oz per acre 7 to 10 days after permanent flood, followed by a second application of Clincher SF at the rate of 10 fl oz per acre between 10 and 14 days later.

If Clincher SF is applied as a postflood salvage treatment to previously untreated areas, to fields with previous failed herbicide applications, or areas of extremely high grass weed density, total control of labeled grass weeds should not be expected. Regrowth of these grass weeds may occur.

Water Seeded Rice

Before permanent flood: Allow grass weeds to germinate before application. Good soil moisture conditions (saturated soil) and actively growing grass weeds are essential. Residual water remaining in the field does not adversely affect grass weed control so long as grass weeds are at least 70% exposed. Ground application of Clincher SF is not recommended as weed control may be reduced. If fields are drained at application, they should be re-flooded beginning 2 hours after application and within 24 to 48 hours after application to prevent germination of new grass weeds.

After permanent flood (postflood): Maintain the flood at application so long as grass weeds are at least 70% exposed. Following application, it is important to maintain a flood of 2 to 4 inches across the field to reduce the risk of grass weed regrowth. A permanent flood following application provides the best results.

For extremely heavy grass densities, a sequential application program of Clincher SF can be made at 15 fl oz per acre 7 to 10 days after permanent flood, followed by a second application of Clincher SF at the rate of 10 fl oz per acre between 10 and 14 days later.

If Clincher SF is applied as a postflood salvage treatment to previously untreated areas, to fields with previous failed herbicide applications or areas of extremely high grass weed density, total control of labeled grass weeds should not be expected. Regrowth of these grass weeds may occur.

**Application Rates and Weeds Controlled
(Arkansas, Florida, Louisiana, Mississippi, Missouri, Tennessee, and Texas)**

Drill Seeded Rice

Common Name	Scientific Name	Application Rates of Clincher SF and Stage of Grass Weed Development	
		13.5 fl oz/acre	13.5 to 15 fl oz/acre ¹
Weeds Controlled			
Amazon (tighthead) sprangletop	<i>Leptochloa panicoides</i>	preflood up to 4 leaf	postflood, prior to grass weed heading
barnyardgrass	<i>Echinochloa crus-galli</i>		
bearded sprangletop	<i>Leptochloa fascicularis</i>		
broadleaf signalgrass	<i>Brachiaria platyphylla</i>		
fall panicum	<i>Panicum dichotomiflorum</i>		
johnsongrass (seedling)	<i>Sorghum halepense</i>		
jungerice	<i>Echinochloa colona</i>		
red sprangletop	<i>Leptochloa filiformis</i>		
Weeds Suppressed			
goosegrass	<i>Eleusine indica</i>		
large crabgrass	<i>Digitaria sanguinalis</i>		

¹If applied to heading grasses, heavy weed densities and/or previously untreated areas (salvage treatment), only partial control should be expected. Regrowth of these grass weeds may occur:

Note: Do not apply more than 15 fl oz in a single application or apply more than 25 fl oz per year in both the first and ratoon crops combined.

Water Seeded Rice

Common Name	Scientific Name	Application Rates of Clincher SF and Stage of Grass Weed Development	
		13.5 fl oz/acre	13.5 to 15 fl oz/acre ¹
Weeds Controlled		preflood up to 4 leaf	mid- to-late tillering or branching, prior to grass weed heading
Amazon (tighthead) sprangletop barnyardgrass bearded sprangletop broadleaf signalgrass fall panicum junglerice knotgrass ² red sprangletop	<i>Leptochloa panicoides</i> <i>Echinochloa crus-galli</i> <i>Leptochloa fascicularis</i> <i>Brachiaria platyphylla</i> <i>Panicum dichotomiflorum</i> <i>Echinochloa colona</i> <i>Paspalum distichum</i> <i>Leptochloa filiformis</i>		
Weeds Suppressed			
brook paspalum perennial barnyardgrass Texas panicum water paspalum	<i>Paspalum acuminatum</i> <i>Echinochloa polystachya</i> <i>Panicum texanum</i> <i>Paspalum hydrophilum</i>		

¹If Clincher SF is applied as a postflood salvage treatment to previously untreated areas, to fields with previous failed herbicide applications, or areas of extremely high grass weed density, total control of labeled grass weeds should not be expected. Regrowth of these grass weeds may occur.

²Knotgrass at 1 to 4 leaf stage can be controlled with 10 to 13.5 fl oz per acre.

Note: Do not apply more than 15 fl oz in a single application or apply more than 25 fl oz per year in both the first and ratoon crops combined.

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