

BENZOBICYCLON	GROUP	27	HERBICIDE
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CLIFFHANGER™ SC

HERBICIDE

For selective pre-emergent and post-emergent control of susceptible grass and sedge weeds

Active Ingredient:	% BY WT
Benzobicyclon, -3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio) bicyclo-[3.2.1]oct-3-en-2-one	35.4%
Other Ingredients:	64.6%
	TOTAL 100.0%

Contains 3.40 lb of active ingredient per gallon.

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 the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center, doctor, or going for treatment. Contact 1-888-478-0798 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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. Wear protective eyewear.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

USER SAFETY REQUIREMENTS

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

USER SAFETY RECOMMENDATIONS
Users should: <ul style="list-style-type: none"> 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 clothing.

ENVIRONMENTAL HAZARDS

Except when treating rice fields as specified in the label, **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** apply where runoff is likely to occur. **DO NOT** contaminate water when disposing of equipment wash waters or rinsate. **DO NOT** apply when weather conditions favor drift from the area treated. Apply this product only as specified on this label.

EPA Reg. No. 10163-374
EPA Est. No.



Produced For:
Gowan Company, LLC
P.O. Box 5569
Yuma, AZ 85366-5569

PRODUCT INFORMATION

CLIFFHANGER SC is a liquid herbicide formulation for use in rice. CLIFFHANGER SC is applied post-flood as a pre and post-emergence herbicide for the selective control of susceptible grass and sedge weeds. CLIFFHANGER SC is a HPPD inhibitor (benzobicyclon) that controls weeds by both foliar and root uptake in the water.

Benzobicyclon is a pro-herbicide and the formulated product must be applied into flooded fields to allow for conversion to the herbicidally active ingredient. Application to dry soil will provide unsatisfactory weed control. CLIFFHANGER SC can be incorporated into a wide range of weed control programs.

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 State or

Tribal agency responsible for pesticide regulation

RESISTANCE-MANAGEMENT RECOMMENDATIONS

CLIFFHANGER SC is a Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to CLIFFHANGER SC and other Group 27 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Follow appropriate resistance management strategies.

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 take one or more of the following steps:

- Rotate the use of CLIFFHANGER SC or other Group 27 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include:
 - (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 - (2) a spreading patch of non-controlled plants of a particular weed species;
 - (3) surviving plants mixed with controlled individuals of the same species.

If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management directions for specific crops and weed biotypes.
- For further information or to report suspected resistance you may contact Gowan Company, LLC at 1-800-883-1844.

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, including plants, soil, or water, wear:

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

APPLICATION EQUIPMENT AND INSTRUCTIONS

Ground Application:

Apply CLIFFHANGER SC in a spray volume that ensures thorough and uniform coverage. Use of 10-15 or more gallons of water per acre is advised. Choose nozzles that provide optimum spray distribution and coverage to the target area at the appropriate pressure (psi). Avoid streaking, skips, overlaps, and spray drift during application. Thoroughly clean equipment prior to mixing spray solution.

Aerial Application:

Apply this product or approved tank mixtures with properly calibrated equipment in 10 or more gallons of water per acre. Thoroughly clean equipment prior to mixing spray solution. Avoid streaking, skips, overlaps, and spray drift during applications.

Direct Stream Application (DSA):

DSA may be applied by ground or air. All applications must be with properly calibrated equipment in 5 or more gallons of water per acre. Delivery pressure must not exceed 20 pounds per square inch. Application equipment must be fitted with drop tubes and spray orifices that produce a solid stream of liquid.

MANDATORY SPRAY DRIFT

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 all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- 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.

SPRAY DRIFT ADVISORY

Minimizing spray drift at the application site is the responsibility of the applicator. The interaction of equipment and weather related factors will determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making applications. Follow all use restrictions to limit off-target drift movement from aerial and ground applications.

RICE VARIETIES

CLIFFHANGER SC herbicide has been tested on a wide range of rice varieties. Use care when using CLIFFHANGER SC herbicide on newly developed rice varieties until varietal sensitivity to CLIFFHANGER SC herbicide has been determined. Consult your Agricultural Extension Specialist or Gowan Representative for more information.

REPLANTING INSTRUCTIONS

If initial planting of rice fails to produce a uniform stand, rice may be replanted in fields treated with CLIFFHANGER SC. **DO NOT** apply a second application of CLIFFHANGER SC to fields that have been previously treated with CLIFFHANGER SC. **DO NOT** replant any treated fields with any crop other than rice within 30 days of application.

ADJUVANTS

Methylated Seed Oils (MSO) and/or MSO Blends are preferred with CLIFFHANGER SC and are advised over NIS and COC. Add MSO and/or MSO BLENDS to the spray mixture at 1% v/v concentration (1 gal per 100 gal of spray solution). Use a high quality MSO and/or MSO BLEND. Refer to the specific crop use direction and restrictions before adding MSO and/or MSO BLEND based adjuvant to the spray mixture.

Nonionic Surfactants (NIS) and Crop oil concentrates (COC) can be used with CLIFFHANGER SC if required by the tank mix partner.

MIXING INSTRUCTIONS

Fill the spray tank to about 3/4 of the desired volume and begin agitation. Add the labeled amount of CLIFFHANGER SC. Complete the filling process while maintaining agitation. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source. Add the adjuvant as the last ingredients in the tank. It is advised spray solutions be applied within 24 hours after mixing.

When mixing compatible pesticides of different formulations there is a mixing order that minimizes the likelihood of pesticides interacting with each other. From mixing first to last, mix: wettable powders, dispersible granules, flowables, emulsifiable concentrates followed by adjuvants. The mixture must be agitated after each addition.

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.

SPRAYER TANK CLEANOUT

To avoid injury to desirable crops, clean all mixing and spray equipment before and immediately following applications of CLIFFHANGER SC as follows:

1. Drain tank; thoroughly rinse spray tank, boom, and hoses with clean water. Remove the nozzles and screens and clean separately in a bucket containing agent and water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal of household ammonia* (containing 3% ammonia) for every 100 gal 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. Again flush the hoses, boom, and nozzles with the cleaning solution and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. The rinsate may be disposed of on-site or at an approved disposal facility.

* Equivalent amount of an alternate strength ammonia solution can be used in the clean out procedure. Carefully read and follow the individual cleaner instructions.

APPLICATION INSTRUCTIONS

CROP	RATE OZ/A	WEEDS CONTROLLED
RICE	8.4 to 10.3 oz. (0.22 - 0.27 lbs ai/A)	Ricefield bulrush (<i>Scirpus mucronatus</i>) Smallflower umbrella sedge (<i>Cyperus difformis</i>) Sprangletop (<i>Leptochloa fascicularis</i>)
DIRECTIONS:		
<ul style="list-style-type: none"> • Apply CLIFFHANGER SC as early as day of seeding to 82 days prior to rice harvest. • Apply CLIFFHANGER SC post-flood as a pre and post-emergence herbicide. • Apply CLIFFHANGER SC by ground or air through properly calibrated equipment. • Apply CLIFFHANGER SC into a minimum of 4 inches of water. • Maintaining a deep and stable flood enhances the herbicidal activity of CLIFFHANGER SC. • For optimum sedge control apply from pre-emergent to 5 leaf stage sedge. Application to sedges outside this size range may lead to reduced efficacy. • For optimum sprangletop control apply from pre-emergent to 2.5 leaf stage grass and tillered grass. Application to sprangletop outside of these size ranges may lead to reduced efficacy. • The level of weed control following CLIFFHANGER SC application is dependent upon application rate and timing relative to weed emergence, weed species, size and infestation intensity at time of application, water management and growing conditions. 		
USE PRECAUTIONS:		
<ul style="list-style-type: none"> • Refer to the companion product label for use instructions, additive requirements, weeds controlled, the size range of weeds that must be treated, and application restrictions. • Not all tank-mix combinations have been evaluated and are the user's responsibility. • It is advised that tank mixtures be evaluated for miscibility and crop safety on a small test area prior to use. • Tank mixtures must not be applied when the plants are under stress due to drought, low fertility or other poor growing conditions. • Application of CLIFFHANGER SC to injured or stressed rice may result in crop injury. • Phytotoxicity may occur if CLIFFHANGER SC herbicide is applied following an application of chicken litter. 		
USE RESTRICTIONS:		
<ul style="list-style-type: none"> • DO NOT apply CLIFFHANGER SC by air when wind velocity exceeds 10 mph. • DO NOT apply more than 1 application or 10.3 oz (0.27 lbs ai/A) of CLIFFHANGER SC per acre per year. • DO NOT apply CLIFFHANGER SC within 50 feet of any sensitive crop. • Direct application to ditches used to transport irrigation water is prohibited. • DO NOT apply under conditions that would allow CLIFFHANGER SC to come into contact with adjacent crops other than rice by drift as injury may occur. • DO NOT harvest rice that has been treated with CLIFFHANGER SC within 82 days of application (PHI 82 days). • DO NOT apply where runoff or irrigation water may flow directly onto agricultural land other than rice fields. • DO NOT apply this product through any type of irrigation system. • DO NOT fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment. • This product is not intended for use in manufacturing or reformulation. • DO NOT use water from fields treated with CLIFFHANGER SC for irrigation of other crops. • DO NOT use on wild rice. • DO NOT replant any treated fields with any crop other than rice within 30 days of application. 		

WATER MANAGEMENT GUIDELINES

Water management is critical to the success of CLIFFHANGER SC. For best performance, it is advised CLIFFHANGER SC be applied into a deep, (minimum of 4 inches) static and permanent flood. If the flood is lost within 5 days after application weed control will be reduced. If the flood is lost after 5 days, reestablish the flood before the soil dries to prevent loss of weed control. The longer the flood is held following application of CLIFFHANGER SC, the better the observed weed control.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool place.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray 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: For plastic containers less than or equal to 5 gallons: 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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

FOR BULK AND MINI-BULK CONTAINERS

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 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

CONTAINER HANDLING: Before refilling, inspect thoroughly for damage including cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. **REFILL ONLY WITH CLIFFHANGER SC.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than CLIFFHANGER SC will result in contamination and may weaken container. After filling and before transporting, check for leaks. **DO NOT** refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL CHEMTREC® (800) 424-9300.

For other product information, contact Gowan Company, LLC or see Safety Data Sheet.

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Gowan Company, LLC warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY, LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY LLC'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY LLC'S SOLE DISCRETION.

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