

# Supplemental Label



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## **COBRA<sup>®</sup> HERBICIDE**

### **FOR POST DIRECTED APPLICATION IN KENAF**

EPA Reg. No. 59639-34

#### **DIRECTIONS FOR USE**

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

**READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

#### **GENERAL INFORMATION**

COBRA Herbicide is a broadspectrum contact herbicide for postemergence directed control of broadleaf weeds in kenaf. Apply COBRA Herbicide postemergence as a directed spray application following a preplant incorporated or preemergence herbicide(s) for early season control of grasses and broadleaf weeds. Use COBRA Herbicide as a postemergence directed application when the kenaf plant has reached a minimum height of 10 inches and a height difference of 3 to 5 inches has been established between the lower leaves of the kenaf plant and the top of the broadleaf weeds. Make one (1) application per season.

Misapplication resulting in COBRA Herbicide coming into contact with the kenaf plant may result in injury of kenaf plants.

The postemergence directed applications of COBRA Herbicide or COBRA Herbicide tank mixes should use equipment designed to minimize spray solution contacting the kenaf plant. This equipment would include spray nozzles positioned a minimum of 3 inches above the soil surface and angled backward so that the spray solution discharges to the rear and underneath the row canopy, nozzles as described above with leaf lifters or shields and/or plastic preformed hooded sprayers positioned to run between the kenaf rows, all of which are designed to help reduce spray contact with the kenaf plant.

Under conditions of normal weed growth, COBRA Herbicide may be applied up to 30 minutes before rainfall without reducing weed control.

This chemical (lactofen) has properties and characteristics associated with chemicals detected in groundwater. Acifluorfen, a degradate of this chemical, is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

#### **KENAF TOLERANCE**

Apply COBRA Herbicide to kenaf **ONLY** as a **DIRECTED SPRAY** application with nozzles set to deliver the spray mixture toward the base of the kenaf plant, as specified in the "Timing" and "Application" sections of this label. Lower leaves which are contacted by the spray mixture will appear spotted or light brown to bronze in color. This response will have no effect on the growth or development of the kenaf crop, and all growth following application will be normal.

It is essential to establish a height differential of 3 to 5 inches between the crop and the target weeds prior to application to ensure full coverage of the weed leaf surfaces while minimizing direct contact of the spray mixture

with the upper leaves and terminal area of the kenaf plant.

COBRA Herbicide is a contact herbicide. It does not move throughout the kenaf plant and it will not vaporize off the soil surface.

**DO NOT** apply COBRA Herbicide **OVER-THE-TOP** of kenaf.

### TIMING

**Post-Directed:  
KENAF 10"  
or More**

For best results, COBRA Herbicide should be applied to small, actively growing weeds. Nozzles should be set to spray no higher than the bottom 2 to 3 inches of the kenaf stalk and still fully cover the target weeds. A properly timed directed spray application will provide control of labeled weeds not larger than indicated in Table 6C.

Apply COBRA Herbicide under conditions that promote active weed growth. **DO NOT** apply COBRA Herbicide when weeds are under stress. Weeds under stress tend to "harden off" and become less susceptible to herbicide activity. **DO NOT** apply COBRA Herbicide under conditions of drought or when rainfall has been less than 1 inch in a consecutive 2-week period, when excessive water has saturated the field for 3 or more consecutive days or when high temperatures are in combination with low soil moisture or in combination with low humidity. Applying COBRA Herbicide under these conditions may result in unsatisfactory weed control.

Conditions such as those described above which precede or immediately follow a COBRA Herbicide application may adversely affect the performance of the herbicide.

### DIRECTED BAND APPLICATION

Directed row banding is required for use of COBRA Herbicide in kenaf. Two nozzles per row, one on each side, are required for postemergence directed application. Tractor ground speed should not exceed 5 mph. The spray equipment used should accurately direct the spray pattern to the base of the kenaf plant to minimize contact with the kenaf plant and provide good coverage of the target weeds. Spray nozzles should be positioned a minimum of 3 inches above the soil surface and angled backward so that the spray solution discharges to the rear and under the row canopy. The use of leaf lifters or shields on application equipment is recommended to help reduce spray contact with the kenaf plant. Row banding equipment should be adjusted to provide maximum coverage of weeds in the banding area.

### SPRAYER CALIBRATION

**FIELD CALIBRATE YOUR SPRAYER:** Improper calibration will adversely affect the spray pattern and reduce weed control. Delivery rates shown in equipment catalogs may not accurately reflect your actual delivery rate. When calibrating, spray pressure should be measured at the spray nozzle to assure accurate delivery rates. Refer to manufacturer's chart for recommended spray volume, spray pressure, and ground speed for the nozzles and the directed spray system you are using.

HERBICIDE RATES, ADJUVANT RATES AND SPRAY VOLUME RECOMMENDATIONS are presented as BROADCAST EQUIVALENTS, and must be reduced in proportion to the area actually treated. Use the following formulas to calculate the correct rate and volume per planted (field) acre:

$$\frac{\text{BandWidth (inches)}}{\text{Row Width (inches)}} \times \text{Broadcast Rate/Acre} = \text{Amount of Herbicide Needed per Field Acre}$$

$$\frac{\text{BandWidth (inches)}}{\text{Row Width (inches)}} \times \text{Broadcast Volume/Acre} = \text{Amount of Water Needed per Field Acre}$$

### CULTIVATION

When postemergence directing COBRA Herbicide at the same time as cultivation, the spray nozzles must be positioned in front of the cultivation equipment. Applying COBRA Herbicide at the time of cultivation under dry soil conditions will cause excessive dust which will prevent proper contact between COBRA Herbicide and the weed surface. This reduced contact will decrease weed control activity. In addition, applying COBRA Herbicide while cultivating at ground speeds greater than 5 mph will prevent good coverage of the weed surface by the spray solution and reduce weed control activity.

**APPLICATION RATES**

Apply COBRA Herbicide at a rate of 12.5 fl. oz. per acre on a broadcast basis. The sprayer must be equipped with flat fan or off-center fan nozzles designed to deliver 10 to 30 gals. of water per acre when operated at a spray pressure of 20 to 30 PSI measured at the nozzle. Pressures greater than 30 PSI may cause the spray mist to move upward into the kenaf canopy resulting in severe crop injury.

**Table 1K.**

**APPLICATION RATES  
Post-Directed: KENAF 10" or More  
COBRA HERBICIDE**

<b>Application Timing</b>	<b>Broadcast Rate/Acre</b>	<b>Adjuvant*</b>	<b>Weeds</b>	<b>Comments</b>
Post-directed: KENAF 10" or more	12.5 fl. oz.	1% v/v Crop Oil Concentrate  or  0.25 to 0.50% v/v non-ionic surfactant	Refer to Table 2S.	Reduce broadcast rate in proportion to band area actually treated (See SPRAYER CALIBRATION).

\* The use of spray adjuvants will provide enhanced control of broadleaf weeds.

**THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. PLEASE REFER TO CONTAINER LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

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