

## **FALLOW BEDS - PREEMERGENCE/POSTEMERGENCE (WEEDS)**

### General Information

#### PRODUCT USE INFORMATION

Collide Herbicide may be applied for preemergence and postemergence weed control in labeled crops as indicated in the label. All use directions as provided in the Product Use Information section and crop-specific sections of the label, must be followed.

#### PRODUCT USE RESTRICTIONS:

THE FOLLOWING USE RESTRICTIONS APPLY TO ALL REGISTERED USES OF THIS PRODUCT: (NOTE: SEE DIRECTIONS FOR USE FOR INDIVIDUAL CROPS FOR CROP-SPECIFIC USE RESTRICTIONS.)

- Read and observe all label directions before using. When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- DO NOT apply to irrigation water or water used for domestic purposes.
- DO NOT use any plants treated with Collide Herbicide for feed or forage.
- DO NOT feed or allow animals to graze on any areas treated with Collide Herbicide.
- Collide Herbicide should be applied only by ground application equipment except as otherwise allowed or directed in specific use directions.
- DO NOT apply when weather conditions favor drift. Avoid drift to all non-target areas. Collide Herbicide is phytotoxic to plant foliage.
- Some labeled crops are tolerant to over-the-top application of Collide Herbicide if applied during dormancy. DO NOT make over-the-top applications unless specifically allowed in crop-specific use directions.
- DO NOT apply Collide Herbicide in enclosed greenhouses as foliage injury will

result.

- Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after each use. Residual Collide Herbicide remaining in spray equipment may damage other crops. To assist removal of Collide Herbicide residues in spray equipment, Latron AG-98 or Latron CS-7 may be added at the rate of 1 quart per 100 gallons of water during flushing.
- Use Collide Herbicide only for label-listed purposes at their specified rates.
- DO NOT treat ditch banks or waterways with Collide Herbicide.

#### ROTATION CROP RESTRICTIONS

- DO NOT rotate to small-grain crops (includes barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, wild rice) within 10 months following an oxyfluorfen treatment.
- DO NOT direct seed any crops, other than Collide Herbicide-labeled crops, within 60 days following a treatment with Collide Herbicide.
- DO NOT transplant seedling crops, other than Collide Herbicide-labeled crops, within 30 days following treatment with Collide Herbicide.

Important: Unless otherwise specified elsewhere in the label, supplemental label or product bulletin, treated soil must be thoroughly incorporated to a depth of 4 inches after harvest (or abandoning) of the treated crop but prior to planting of the rotational crop. Failure to achieve this thorough and complete incorporation or to follow the required minimum plantback interval may result in crop injury, stand reduction and/or vigor reduction of the plant-back crop. See specific fallow bed labeling regarding crop planting information for applications of Collide Herbicide that are made to a fallow bed or fallow field.

#### Application Methods and Recommended Cultural Practices

##### Preemergence Weed Control

Apply the specified rate in a broadcast spray volume of 15 or more gallons of water per acre using calibrated spray equipment capable of uniform application to the soil surface. Seedling weeds are controlled as they come in contact with the soil-applied

herbicide during emergence. Preemergence weed control is most effective when Collide Herbicide is applied to soil surfaces that are clean (free of crop or weed residues or clippings) and weed-free. Prior to application, weed or crop residues should be removed by thorough incorporation into the soil using tillage equipment or by blowing the area to be treated. At least 0.25 inch of irrigation or rainfall is required to activate Collide Herbicide and should occur within 3 to 4 weeks after application. For optimum results, Collide Herbicide should be applied to prepared beds or soil surfaces that will be left undisturbed during the time for which weed control is desired. Cultural practices that disturb or redistribute surface soil following treatment with Collide Herbicide such as cutting water furrows will reduce weed control effectiveness.

**Application Rates and Rate Ranges:** Where rate ranges are given, use the lower rate range on coarse texture soils with less than 1% organic matter and lighter weed infestations. Use higher rates in the rate range on medium to fine texture soils, soils containing greater than 1% organic matter, heavy weed infestations, or for extended residual preemergence weed control.

#### Postemergence Weed Control

Apply the specified rate in a broadcast spray volume of 20 or more gallons of water per acre (a minimum 10 gallons if applying Collide Herbicide in tank mix with glyphosate). Because Collide Herbicide is a contact herbicide, complete and uniform coverage of weed foliage is essential for optimum postemergence control. Increase the spray volume to ensure complete and uniform coverage as weed height and density increases or in the presence of heavy trash (weed or crop residue).

Postemergence applications of Collide Herbicide are most effective when made to weeds at the seedling stage. Applications made later than the 4-inch or 4-leaf stage may result in partial control or suppression. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% v/v (2 pints per 100 gallons of spray) of an 80% active nonionic surfactant, labeled for application to growing crops, will enhance herbicidal effectiveness in controlling emerged weeds.

Postemergence Application Rates: Where a rate range is given, use a higher rate in the rate range for heavy weed infestations, weeds in advanced stages of growth or for extended residual preemergence weed control following control of existing emerged weeds.

## Ground Application

Ground Broadcast: Apply Collide Herbicide using conventional low-pressure ground spray equipment with flat fan spray nozzles. Follow manufacturer's recommendation for spraying pressure and boom height. An off-center (OC) nozzle positioned at the end of the boom may be desired. Check calibration of spray equipment before each use.

Directed Sprays: Apply Collide Herbicide as a coarse, low-pressure spray in a volume of 20 or more gallons of spray per acre (broadcast basis). Follow manufacturer's recommendations for nozzle spacing and operating pressure. Spray should be directed toward the soil at the base of the crop. In row crops, use a minimum of 2 flat fan nozzles per row (one on each side) and for optimum spray coverage use 4 flat fan nozzles per row (two on each side). The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage but minimize contact with the crop. Do not apply with hollow cone nozzles.

**IMPORTANT:** Collide Herbicide is a contact herbicide. Contact of sprays or drift with foliage or green stems can cause severe crop injury. Use directed sprays and spray shields and/or leaf lifters as necessary to minimize contact of spray or drift with crop foliage or stems. Young green stems of woody plants are also susceptible to injury from spray contact. Potential for injury to woody stems diminishes with loss of green color and the development of relatively impervious non-living corky tissue (bark) on the surface of the stem.

Refer to the label to determine the specific rate for Band Application.

## Spot Application:

For spot application, apply sprays uniformly to soil for preemergence weed control or on a spray-to-wet basis for postemergence weed control. Mix the required

amount of Collide Herbicide with the specified amount of water. For preemergence weed control, use one-half to one gallon of spray per 1000 sq ft. For postemergence weed control use a minimum of 1 gallon of spray per 1000 sq ft and add an 80% nonionic surfactant at the rate of 0.5 fl oz (1 tablespoon) per gallon of spray. If making spot applications within an established crop, use coarse low-pressure sprays and direct the spray to the soil beneath the plants. To avoid crop injury, do not allow spray to contact leaves and stems of herbaceous plants or leaves or green stems of woody plants.

### Aerial Application

Use aerial boom equipment designed for use with herbicides and a minimum spray volume of 10 gallons per acre (5 gallons per acre if tank mixed with glyphosate). Do not aerially apply Collide Herbicide unless crop-specific use directions specifically allow and provide directions for aerial application.

For Aerial Application in Fresno County, California Only (From February 15 through March 31 Only)

In addition to the directions for use for aerial application appearing above, the following guidelines are required between the dates of February 15 and March 31 for applications in the following geographic area:

North: Fresno County line

South: Fresno County line

East: State Highway 99

West: Fresno County line

Observe the following directions to minimize off-site movement during aerial application of Collide Herbicide. Minimization of off-site movement is the responsibility of the grower, pest control advisor and aerial applicator.

A written recommendation must be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to the application. This written recommendation must state the proximity of surrounding crops, and that conditions of each manufacturer's product label and the label have been satisfied.

Aerial application of Collide Herbicide is limited to pilots who have successfully completed a Fresno County Agricultural Commissioner and California Department of Pesticide Regulation approved training program for aerial application of herbicides. All aircraft must be inspected, critiqued in flight and certified at a Fresno County Agricultural Commissioner approved fly-in. Test and calibrate spray equipment at intervals sufficient to ensure that proper rates are being applied during the commercial use season. Applicator must document such calibrations and testing. Demonstration of performance at Fresno County Agricultural Commissioner approved "flyins" constitutes such documentation; or other written records showing calculations and measurements of flight and spray parameters acceptable.

Do not apply this product by air earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset without prior permission from the Fresno County Agricultural Commissioner.

#### RATE RANGES

Select proper application rates based on soil conditions, weed spectrum and desired period of residual weed control.

Preemergence Application: Where rate ranges are given, use the lower rate in the rate range on coarse texture soils with less than 1% organic matter. Use higher rates in the rate range on medium to fine texture soils, soils containing greater than 1% organic matter, or where a longer period of residual weed control is desired.

Postemergence Application: Where a rate range is given, use higher rate in rate range for heavy weed infestations, weeds in advanced stages of growth or where a longer period of residual weed control is desired.

#### Limitations, Restrictions, and Exceptions

#### USE ON FALLOW BEDS

(Do not use prior to planting soybeans in California)

Used alone or in a tank mix combination with glyphosate, Collide Herbicide provides preemergence and/or postemergence control of winter annual broadleaf weeds on land to be planted to crops.

Prior to planting, treated fallow beds should be thoroughly tilled (incorporated) to a depth of at least 2.5 inches.

Collide Herbicide is no longer herbicidally effective once the active layer in the soil surface is disrupted by soil incorporation.

Aerial Application: Collide Herbicide maybe aerially applied for weed control in fallow beds. Follow requirements for Aerial Application in the Product Information section of the label.

Preemergence/Postemergence:

Use 20 or more gallons of spray volume per acre and increase spray volume for dense weed growth.

Use the 1 pint per acre rate for up to 4 weeks of preemergence control and postemergence control of susceptible weeds up to the 4-leaf stage. Use the 2 pint per acre rate for up to 8 weeks of preemergence control and postemergence control of susceptible weeds up to the 6-leaf stage. Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks after application.

A tank mix with glyphosate is recommended if the treatment area contains dense weed populations, oversized weed seedlings, volunteer grains, annual grasses or under unfavorable environmental conditions.

Outside of California: For enhanced contact activity (burndown/suppression), tank mix 6.5 fl oz of Collide Herbicide with the labeled rate of either glyphosate or paraquat. Apply at the application rate and weed growth stages specified in the respective tank mix product label.

Precautions:

Failure to achieve thorough and complete incorporation, or to follow the specified treatment-planting interval, may result in stand reduction and/or vigor reduction of the planted crop.

Crop injury may be enhanced if newly seeded crops or transplants are under stress due to drought, flooding, excessive fertilizer or soil salts, low soil temperatures, wind injury, hail, frost damage, injury from previously applied pesticides, or injury

due to insects or diseases.

Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result.

Crop-Specific Restrictions:

Do not apply more than 2 pints of Collide Herbicide per acre per fallow season.

Notes:

- Fallow beds: Thorough spray coverage is essential to maximize the postemergence activity of Collide Herbicide. For postemergence control when applied by air, a tank mixture of Collide Herbicide with either glyphosate or paraquat is recommended.

- Eveningprimrose, cutleaf: Requires maximum rate and/or multiple applications for effective control.

Method

[Broadcast/Foliar Air](#)

[Soil incorporation](#)

[Broadcast/Foliar Air](#)

[Soil incorporation](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

24 hours

Timings

[Preemergence \(Weed\)](#)

[Postemergence \(Weed\)](#)