



**COUNTY OF GLENN**  
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## **Chlorpyrifos Permit Conditions**

The objectives of the following permit conditions are to minimize bystander exposure and offsite movement of chlorpyrifos during applications and reduce runoff after applications. These conditions apply to products containing chlorpyrifos labeled for the production of an agricultural commodity. Follow the most restrictive requirement, whether it is the label, regulations, or CAC conditions.

### **Application Method Restrictions:**

- 1) All applications must take place with a minimum wind speed of 3 mph and not more than 10 mph as measured at a height of four (4) feet above the ground;
- 2) Airblast applications:
  - a. Spray the 2 outside crop rows from the outside in, directing the spray into the treatment area and shutting off nozzles on the side of the sprayer away from the treatment area;
  - b. Shut off top nozzles when treating smaller trees, vines, or bushes to minimize spray movement above the canopy;
- 3) Chemigation applications:
  - a. The permittee or permittee's authorized representative, who is knowledgeable of the irrigation system, must be present at the treatment site during the application and must be trained as a pesticide handler;
- 4) Granular applications:
  - a. Incorporate or clean-up granules that are spilled during loading or are visible on the soil surface in turn areas.

### **Determining application rate - Converting liquid volume to lbs. AI/ac:**

Active ingredient (AI) application rate determines setback distance and is expressed as pounds of active ingredient per acre (lbs. AI/ac). Liquid product labels usually have the application rate as pints or quarts

of product per acre. To determine lbs. AI/ac, the volume of product applied needs to be converted to pounds of active ingredient based on the amount of chlorpyrifos active ingredient in the product.

Generalized formula:

*(lbs. AI/gallon indicated on the label) x (product volume converted to gallons)*

**Determining application rate - Converting row feet rate to lbs. AI/ac:**

Setback distances are for a broadcast application. When labels specify the application rate as fluid ounces per 1,000 feet of row or 100 feet of row, the “broadcast equivalent application rate” is the rate of active ingredient (lbs. AI/ac) within the entire application block. The “broadcast equivalent application rate” must be calculated to determine the setback distance.

Generalized formula:

$(\text{fl. oz. per 1,000 row feet}) / (\text{row width in inches}) \times 32.67^*$

\*32.67 is a factor combining several unit conversions, including inches to feet, square feet to acres, and fluid ounces to pints. For rates expressed as fl. oz./100 row feet, use 326.7 instead.

**Setback distances:**

A setback distance must be established for every chlorpyrifos application near a sensitive site. The setback distance must extend outward from the perimeter of the sensitive site to the perimeter of the application block.

Use the following application and rate specific setback distance tables for all chlorpyrifos applications.

<b>Aerial applications (fixed wing or rotary)</b>	
<b>Application Rate (lbs AI/ac)</b>	<b>Occupied Sensitive Site Setback Distance (feet)</b>
less than or equal to 1	250
greater than 1 - 2.3	500

<b>Ground applications</b>		
<b>Application Rate (lbs AI/ac)</b>	<b>Occupied Sensitive Site Setback Distance (feet)</b>	
	<b>Sprinkler Chemigation or ground boom</b>	<b>Airblast</b>
less than or equal to 1	150	150
>1 - 2	350	350
>2 - 4	400	400
>4 - 6	Prohibited	500

The CAC may use the setback distances in the table below if non-occupational bystanders will not occupy the sensitive site anytime during the application and for 1 hour after the end of the application.

To ensure sensitive sites are not occupied anytime during the application and for 1 hour after the application, the CAC must include additional permit conditions, such as written vacating agreements for sites that could trigger the occupied sensitive site setbacks, post the occupied sensitive site setback distance, or observation/monitoring at the setback perimeter during the application and for an hour after the application.

<b>Application Method</b>	<b>Minimum Setback Distance (feet)</b>
Ground Boom	25
Chemigation	25
Airblast	50*
Aerial (fixed wing or rotary)	150

\*Dormant applications must comply with 3 CCR section 6960