

# Kern County

## 1,3-Dichloropropene Pesticides (Field Fumigant)

### Permit Conditions

These permit conditions apply to the use of pesticide products containing the active ingredient (a.i.) 1,3-Dichloropropene (1,3-D) when applied by either mechanical soil injection or drip application systems to fields used for the production of agricultural crops. They should be used in addition to the provisions in:

- *California Food and Agricultural Code (FAC);*
- *Title 3, California Code of Regulations (3 CCR) including §§ 6448 and 6448.1; and*
- *Product labeling.*

1,3-D products containing chloropicrin are also subject to the Kern County Chloropicrin Field Fumigation Permit Conditions.

**When requirements differ, the most stringent requirements shall be followed.** The Kern County Agricultural Commissioner may require more restrictive conditions based on local conditions.

## Background on Use Limitations

DPR is utilizing the guidelines of the Risk Management Directive and Mitigation Guidance for Cancer Risk from 1,3-Dichloropropene (1,3-D) – ([http://www.cdpr.ca.gov/docs/whs/pdf/1,3-d\\_directive\\_mitigation.pdf](http://www.cdpr.ca.gov/docs/whs/pdf/1,3-d_directive_mitigation.pdf)).

DPR limits the 1,3-D used annually in a township to a fixed maximum number of adjusted total pounds (ATP).

Adjusted Total Pounds (ATP) is the total quantity of 1,3-D active ingredient applied during an application, adjusted by an Application Factor (AF). The AF is a numerical value, set by DPR, of the relative amount of 1,3-D potentially present in the air near treated fields. The higher the AF value, the greater the proportion of the applied 1,3-D that may escape into the air. AF values are based on the geographic location, month, and application method.

## Annual Use Limit for each Township

For all townships in Kern County the use limit is 136,000 ATP per calendar year.

Teleos Ag Solutions (TAS) or the TAS's contractor is responsible for tracking, reporting, and ensuring township use limits are observed. The annual township use limit is fixed and cannot be exceeded (i.e., cannot "bank" and roll over unused allotted ATP for later use).

## Conditions for All Application Methods

### Notice of intent (NOI)

The notice of intent (NOI) must be submitted at least 48 hours before the fumigation begins. The permittee must provide the CAC with a TAS- or TAS contractor-approved recommendation before the NOI is accepted and the application allowed.

# Conditions for All Application *Methods* - *Continued*

## Notice of intent (NOI) - *Continued*

In addition to the information required in 3 CCR section 6434, the following information must be included in the NOI:

1. Starting ATP balance available in the township prior to the proposed application
2. Application depth and type, including 4-digit field fumigation method (FFM) code (Table 1)
3. The total gallons (TG) of the pesticide formulation
4. The pounds per gallon (lbs./gal) of 1,3-D formulation
5. The percent by weight of a.i., expressed as a decimal (.XX)
6. The total pounds (TP) of 1,3-D a.i. applied
7. The application factor (AF) appropriate for the proposed application from Table 2
8. The adjusted total pounds (ATP) for the proposed application

The NOI will be denied if the proposed application ATP exceeds the available use limit balance in a township.

## Maximum Application Rate

An application cannot exceed the maximum application rate of 332 pounds of 1,3-D active ingredient per acre.

## 1,3-D Use Reporting

Use reports required by 3 CCR sections 6626(a) or (b) for all 1,3-D applications must include the field fumigation method (FFM) code describing methods of application pursuant to 3 CCR section 6448.1 (Table 1).

## Restrictions for Occupied Structures

Applications are prohibited within 100 feet of any occupied structure, measured from the perimeter of the application block to any occupied residences, occupied onsite employee housing, convalescent homes, hospitals, or other similar sites identified by the CAC. If a structure is within 100 feet of the application block, no person shall be present at this structure at any time during the application and during the seven-consecutive day period after the application is complete. This restriction applies even on soils that have not experienced a 1,3-D treatment in the previous two years. No applications will be made within ¼ mile of a school or licensed day care facility that is in session or due to be in session within 36 hours.

## Entry into the Application Block

Entry into the application block (including early entry that would otherwise be permitted by the Worker Protection Standard or 3 CCR section 6770) by any person, other than a government official mandated to regulate pesticide use or a properly trained and equipped handler who is performing a handling task permitted by the product labeling, is prohibited from the start of the application until seven (7) days after the application is complete. This prohibition applies to all applications, including all tarp types and untarped applications.

# Conditions for All Application *Methods* - *Continued*

## Tarp Perforation and Removal

Tarps that do not meet the requirements for any percentage reduction in buffer zone distance mentioned on 1,3-D/chloropicrin labels, such as standard polyethylene tarps, may be perforated and/or removed according to fumigant labeling directions.

Tarps that meet the requirements for any percentage reduction in buffer zone distance mentioned on 1,3-D/chloropicrin labels (<https://www.epa.gov/soil-fumigants/tarps%23chloropicrin-1-3d#chloropicrin-1-3d>) must not be perforated until a minimum of nine (9) days (216 hours) have elapsed after the application is complete, and must not be removed until a minimum of one (1) day (24 hours) after perforation, unless a weather condition exists that necessitates early tarp perforation or removal as specified by the fumigant label.

## Use Site Restrictions

Use of 1,3-D in greenhouses and other enclosed areas are prohibited.

## Time of Year Restrictions

All 1,3-D applications are prohibited during December to address air concentration uncertainties and potentially high seasonal exposures.

## Tables

**Table 1. 1,3-D Field Fumigation Method (FFM) Codes for Pesticide Use Reporting**

Regulation Section	Field Fumigation Method	FFM Code
<b>6448.1</b>	<b>1,3-Dichloropropene Fumigation Methods (with or without chloropicrin)</b>	<b>1200 series</b>
6448.1(d)(1)	Nontarpaulin/Shallow/Broadcast or Bed	1201 *
6448.1(d)(2)	Tarpaulin/Shallow/Broadcast	1202 *
	Tarpaulin/Shallow/Bed	1203 *
6448.1(d)(3)	Nontarpaulin/Shallow/Broadcast /Three Water Treatments	1204
6448.1(d)(4)	Tarpaulin/Shallow/Bed/Three Water Treatment	1205
6448.1(d)(5)	Nontarpaulin/Deep/Broadcast or Bed	1206
6448.1(d)(6)	Tarpaulin/Deep/Broadcast	1207
	Tarpaulin/Deep/Bed	1208
6448.1(d)(7)	Chemigation (Drip System)/Tarpaulin	1209
6448.1(d)(5)	Nontarpaulin/Deep/Strip	1210
6448.1(d)(5)	Nontarpaulin/Deep/GPS-targeted	1211
6448.1(d)(2)	Tarpaulin/Shallow/Broadcast –with tarp eligible for 60% credit	1242
	Tarpaulin/Shallow/Bed–with tarp eligible for 60% credit	1243 *
6448.1(d)(4)	Tarpaulin/Shallow/Bed/Three Water Treatment –with tarp eligible for 60%	1245
6448.1(d)(6)	Tarpaulin/Deep/Broadcast –with tarp eligible for 60% credit	1247
	Tarpaulin/Deep/Bed–with tarp eligible for 60% credit	1248
6448.1(d)(6)	Tarpaulin/Deep/Broadcast-strip –with tarp eligible for 60% credit	1249
6448.1(d)(7)	Chemigation (Drip System)/Tarpaulin –with tarp eligible for 60% credit	1259
	Other label method for 1,3-Dichloropropene (with or without chloropicrin)**	1290

\*Method prohibited within the San Joaquin Valley nonattainment area during May 1 – October 31.

## Tables - Continued

**Table 2. Determining the Application Factor (AF)**

Location <sup>i</sup>	Tarp Type <sup>ii</sup>	Months <sup>iii</sup>	Fumigation Method <sup>iv</sup>	Application Factor
Within SJV (All of Kern County)	Non-Tarped & non-60% credit	Jan	Shallow	Prohibited
			Deep	1.9
			Drip	1.16
		Feb-Nov	Shallow	1.9
			Deep	1.0
			Drip	1.16
	60% credit	Jan	Shallow	0.6
			Deep	0.6
			Strip	1.2
			Drip	1.16
		Feb-Nov	Shallow	0.3
			Deep	0.3
Strip			0.6	
Drip			1.16	

i. Within SJV - Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare Counties.

Outside SJV - All other counties in California.

ii. Tarp type: 60% Credit - Only DPR-approved tarp assigned a 60% buffer zone credit for products containing both chloropicrin and 1,3-D (<http://www.cdpr.ca.gov/docs/emon/pubs/tac/tarpaulins.html>).

Non-60% Credit - Either the tarp is not DPR-approved for a 60% buffer zone reduction for chloropicrin and 1,3-D products or the application is untarped.

iii. All applications are prohibited during December.

iv. Fumigation Methods consist of -

- Shallow broadcast – shank injection less than 18 inches deep.
- Deep broadcast – shank injection 18 inches or deeper.
- Strip – shank injection alternating with untreated area.
- Drip – all chemigation using drip irrigation system whether on soil surface or buried, regardless of depth.

(Revised 11/2020)