

METAM SODIUM / METAM POTASSIUM KERN COUNTY PERMIT CONDITIONS

(Effective 01/2009)

ALL APPLICATION METHODS

1. All Metam Sodium/Metam Potassium applications shall comply with the provisions on the pesticide label and the current Metam Sodium Technical Information Bulletin (T.I.B.)
2. All Metam Sodium/Metam Potassium applications shall comply with the provisions listed in the California Code of Regulations (CCR), Section 6450.
3. When the requirements of the product label, the Metam Sodium T.I.B., these permit conditions and CCR Section 6450 differ, the most restrictive shall apply.
4. The Notice of Intent shall include the Field Fumigation Method (FFM) Code.
5. Do not apply Metam Sodium/Metam Potassium when soil temperatures exceed 90° F at a depth of three inches.
6. C DPR approved Metam Sodium/Metam Potassium training is required on an annual basis.
 - a. The Permit applicant, (grower), shall be Metam certified.
 - b. There shall be at least one Metam certified person physically on-site continuously during the application and sealing process.
7. Post-application field monitoring shall be conducted every 2 hours for a minimum of 12 hours after the application has ceased. This monitoring, which is the responsibility of the property operator, shall be conducted by a Metam certified person not involved in the application process.
8. In addition to the monitoring required by the label and the T.I.B., any party conducting application activities, post application monitoring or the post application water seal(s) shall complete the corresponding portion of the Kern County Metam Sodium/Metam Potassium Fumigation Summary.
9. Climatic conditions, including the absence of an “inversion” shall be suitable for commencement and continuation of each application.
- 10. All applications are prohibited within 1/2 mile of a school in session or due to be in session before the Restricted Entry Interval expires.**
11. During the application or during the post application monitoring, if a situation occurs where increasingly strong odors are present, apply a seal to confine the odors to the soil. Do not restart the application until conditions no longer favor odor formation.
12. Mitigation of off site movement:
 - a. Whenever irrigation equipment is required, the equipment shall be in place prior to the commencement of the application.
 - b. Whenever irrigation equipment is required and mitigation of off-site movement is necessary, a minimum of 0.5 acre inch of water shall be applied starting immediately and completed within 4 hours.
 - c. Water delivery system capacity shall meet or exceed the specifications of the product label, TIB and permit conditions.

SPRINKLER APPLICATIONS

13. Sprinkler irrigation applications are prohibited within 1/2 mile of sensitive areas.
14. Sprinkler irrigation applications are prohibited within 500 feet of any occupied structure.
15. The product shall be applied evenly over a minimum of 4 hours and in a minimum of .80 inch of water.

SHANK INJECTION or ROTARY TILLER APPLICATIONS

16. Applications shall move away from any sensitive site. The application shall begin nearest to the sensitive area and proceed away, unless expressly allowed by permit.
17. Field equipment shall meet the following minimum specifications:
 - a. Dry disconnect fittings (closed system transfer) shall be installed on all tanks and equipment.
 - b. Each tractor saddle tank shall be equipped with a minimum size #50 mesh screen on both the fill and discharge outlets.
 - c. Main line shutoff or by-pass valves shall be used to stop flow to the distribution manifold.
 - d. All systems shall be equipped with an individual shank monitoring system to detect flow problems in each individual shank.
 - e. Dual check valves shall be installed on each outlet between the manifold and as close as possible to the discharge point.
 - f. All components of the delivery system normally below ground shall be metal and suitable for use as provided on the product label.
18. **May 1 through October 31**
 - a. Applications are prohibited within 500 feet of sensitive areas and 100 feet of occupied structures.
 - b. Applications shall have sprinkler irrigation lines within the treatment site. A water seal shall be applied by the grower immediately upon completion of the metam application in each irrigation "set".
 - c. Applications within ¼ mile of sensitive areas shall be limited to the area covered by 2 irrigation sets per day. A second water seal shall be applied by the next day and before the soil surface becomes dry.
19. **November 1 through April 30**
 - a. Applications are prohibited within 500 feet of sensitive areas and 100 feet of occupied structures for all applications that exceed 64 pounds of active ingredient per acre.
 - b. Applications are prohibited within 100 feet of sensitive areas and 20 feet of occupied structures for those applications under 64 pounds of active ingredient per acre.
 - c. Applications shall have sprinkler irrigation lines within the treatment site only if the site is within ½ mile of a sensitive area. When sprinkler irrigation lines are required, a water seal shall be applied by the grower immediately upon completion of the metam application in each irrigation "set".

FLOOD APPLICATIONS

20. Irrigation water shall be available during the post application-monitoring period in an amount sufficient to provide at least one acre inch of water over the application block.

21. **May 1 through October 31**

- a. Flood applications are prohibited within the San Joaquin Valley Non-Attainment Area.
- b. Flood applications are prohibited within 500 feet of sensitive areas or 100 feet of occupied structures out side of the San Joaquin Valley Non-Attainment Area.

22. November 1 through April 30

- a. Flood applications are prohibited within 100 feet of sensitive areas or 20 feet of occupied structures.

DRIP IRRIGATION APPLICATIONS

23. Drip system must be filled with water and tested for pressure variation, clogged emitters and leaks before chemigation.

24. After chemigation, the drip system must be flushed with a volume of water at least three times the volume of the mainline and laterals of the drip system.

25. May 1 through October 31

- a. Drip irrigation applications are prohibited within 500 feet of sensitive areas or 100 feet of occupied structures.

26. November 1 through April 30

- a. Drip irrigation applications are prohibited within 100 feet of sensitive areas or 20 feet of occupied structures.

DEFINITIONS

- **Sensitive Area:** residential areas, schools, labor camps, hospitals, convalescent homes, apartment complexes, motels, churches or businesses and any other sensitive areas designated by the Commissioner.
- **Occupied structure:** does not included buildings where people may work for limited periods of time, such as barns, equipment sheds, pump houses and workshops. Homes occupied by the property owner (landlord) and the permittee (grower and/or authorized representative) are exempt from these requirements.
- **Residential Area** is defined as 10 or more occupied structures within 1/2 mile of the application site.
- **Application block:** a field or portion of a field treated in a 24-hour period that is typically identified by visible indicators, maps, or other means.
- **Applicator:** the person or firm that physically makes the application. Includes growers and pest control businesses.
- **Irrigating:** applying additional water to the application block. (Water sealing or water-capping)
- **Monitoring:** shall consist of a thorough inspection of the entire treatment area.
- **School in Session:** school in session shall be those times when students are attending scheduled classes.

**METAM SODIUM / METAM POTASSIUM
KERN COUNTY FUMIGATION SUMMARY**

Application Date: _____

Grower Name: _____ Permit Number: _____

Metam Certified Person: _____ Applicator / P.C.O.: _____

Field Location / Site Id. #: _____ Acres Treated: _____

Treatment Method (shank, sprinkler etc.) _____ Soil Temp. (at 3" depth): _____°F

Soil Moisture (% field capacity) _____% Water Pressure: _____psi. Nozzle Size: _____

Irrigation Set Number _____ Irrigation Rate (inch/hr) _____

APPLICATION SUMMARY:

	Time	Wind Speed	Wind Dir. (from the:)	Air Temp.	Odor	Soil Temp.
Start App.	_____	_____	_____	_____	_____	_____
Hour 1	_____	_____	_____	_____	_____	_____
Hour 2	_____	_____	_____	_____	_____	_____
Hour 3	_____	_____	_____	_____	_____	_____
Hour 4	_____	_____	_____	_____	_____	_____
Hour 5	_____	_____	_____	_____	_____	_____
Hour 6	_____	_____	_____	_____	_____	_____
Hour 7	_____	_____	_____	_____	_____	_____
Hour 8	_____	_____	_____	_____	_____	_____
Hour 9	_____	_____	_____	_____	_____	_____
End App.	_____	_____	_____	_____	_____	_____

POST APPLICATION MONITORING

	Time	Wind Speed	Wind Dir. (from)	Odor
2 hrs. post app.	_____	_____	_____	_____
4 hrs. post app.	_____	_____	_____	_____
6 hrs. post app.	_____	_____	_____	_____
8 hrs. post app.	_____	_____	_____	_____
10 hrs. post app.	_____	_____	_____	_____
12 hrs. post app.	_____	_____	_____	_____

POST APPLICATION WATER SEAL(S)

Time	Comments	Duration	Irrigation (Inches)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____