**PHASE 2 SOIL FUMIGATION MANAGEMENT PLAN**

**(METAM SODIUM/METAM POTASSIUM PRODUCTS)**

**FMP Elements:**

[I. Certified Applicator Supervising the Fumigation](#Certified_Applicator_Info)

[II. General Site Information](#General_Site_Information)

[III. Application Block](#Owner_operator_Info) Owner Information

[IV. Recordkeeping](#Recordkeeping)

[V. General Application Information](#General_Application_Info)

[VI. Buffer Zones](#Buffer_Zones)

[VII. Emergency Response Plan](#Emergency_Response_Plan)

[VIII. Communication Between Applicator, Owner and Other On-site Handlers](#Communication_Between_Applicator)

I[V. Handler Information](#Handler_Information)

[X. Tarp Plan](#Tarps)

[XI. Soil Conditions](#Soil_Conditions)

[XII. Posting Signs – Fumigant Treated Area and Buffer Zone](#Posting_Signs_Fumigant_Treated_Area)

[XIII. Emergency Preparedness and Response Measures](#emergencyPrepResponse)

[XIV. State and/or Tribal Lead Agency Advance Notification](#State_Tribal_Notice)

[XV. Air Monitoring Plan](#Ai_Monitoring_Plan)

[XVI. Good Agricultural Practices (GAPs)](#GAPs)

**Attachments:**

Check the boxes if the information below is attached as a separate document to the FMP.

Site Map, aerial photo or detailed sketch

Description of evacuation routes (this can be included in the site map)

Written agreement, if the buffer zone extends onto land not under the control of the owner of the application block

Handler Information (Use EPA’s Microsoft Word or PDF template)

GAPs

Other:

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The text fields below will expand as the text is entered. After completing each field, use *Tab* key to go to next text field or check box.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **I. Certified Applicator Supervising the Fumigation** | | | | | | | | | | | | | | | |
| Name: | Phone number: | | | | | License and/or certificate number: | | | | | | | Commercial applicator  Private applicator | | |
| Employer name: | Employer address: | | | | | | | | | | | |  | | |
| Date and location of completing EPA approved certified applicator training program: | | | | | | | | | | | | | | | |
| **II. General Site Information** | | | | | | | | | | | | | | | |
| Application block location (e.g., county, township-range-section quadrant), address, or global positioning system (GPS) coordinates: | | | | | | | | | | | | | | | |
| Site map, aerial photo attached to the FMP or detailed sketch provided below that shows (application block location, application block dimensions, buffer zone dimensions, property lines, roadways, rights-of-ways, sidewalks, permanent walking paths, bus stops, nearby application blocks, surrounding structures (occupied and non-occupied), locations of Buffer Zone signs, and locations of difficult to evacuate sites within ¼ mile of the application block if the buffer zone is greater than 300 feet, or 1/8 mile if the buffer zone is 300 feet or less.  Comments: | | | | | | | | | | | | | | | |
| **III. Application Block Owner Information** | | | | | | | | | | | | | | | |
| Name: | | Address: | | | | | | | | | | | | Phone number: | |
| **IV. Recordkeeping** | | | | | | | | | | | | | | | |
| The owner/operator of the application block has been informed that he/she as well as the certified applicator must keep a signed copy of the site-specific FMP and the post-application summary for 2 years from the date of application. | | | | | | | | | | | | | | | |
| **V. General Application Information** | | | | | | | | | | | | | | | |
| Target application date/window: | | EPA Registration Number:  - | | | | | | | | | | Fumigant Product Name: | | | |
| **VI.**  **Buffer Zones** | | | | | | | | | | | | | | | |
| Application method:  Center Pivot/Lateral Move Irrigation - High Release Equipment  Center Pivot/Lateral Move Irrigation - Medium Release Equipment  Center Pivot/Lateral Move Irrigation - Low Release Equipment  Solid Set Sprinkler  Drench  Drip  Flood Basin, Furrow and Border  Shank  Spray Blade  Spray-on and Irrigate  Rotary Tiller  Weed Sprayer | | Application Rate from the buffer zone table on the label, (if the rate used is not in the buffer zone table, round up to the next value): | | | | | | | Injection Depth (inches): | | | | | | Application Block Size from the buffer zone table on the label,  (if the block size is not in the buffer zone table, round up to the next value): |
| Credits applied and measurements taken (if applicable):  Tarp (Brand name and tarp manufacturer: **,** Lot Number: **,** Batch Number: **,** Part Number **,** Thickness:**,** Color: **):      %**  Organic matter content: (measurement)**,      %**  Clay content: (measurement)**,      %**  Soil temperature: (measurement)**,      %**  Total credits: **%** | | | | | | | | | | | | | | | |
| Buffer zone distance: | | | | | | | | | | | | | | | |
| Are there areas in the buffer zone that are not under the control of the owner of the application block?  Yes  No  If yes, describe the areas and attach the written agreement to the FMP. | | | | | | | | | | | | | | | |
| **VII. Emergency Response Plan** | | | | | | | | | | | | | | | |
| Description of evacuation routes (a diagram or drawing may be attached to the FMP):  Check here if diagram or drawing is attached or if evacuation routes are included in the site map | | | | | | | | | | | | | | | |
| Locations of telephones: | | | | | | | | | | | | | | | |
| Contact information for first responders: | | | | | | | | Local/state/federal contacts: | | | | | | | |
| Emergency procedures/responsibilities in case of an incident, sensory irritation is experienced outside of the buffer zone and/or there are equipment/tarp/seal failure, complaints or other emergencies: | | | | | | | | | | | | | | | |
| **VIII. Communication Between Applicator, Owner, and Other On-site Handlers** | | | | | | | | | | | | | | | |
| Pesticide product labels and material safety data sheets are at the application site and available for employees to review.  Will the certified applicator be at the application site during all handler activities that take place from the beginning of the application until the entry restricted period expires?  Yes  No  If no, describe how the certified applicator will share the label requirements with owner and/or handlers who will be present at the application block after the application is complete until the entry restricted period expires. Include the name and phone number of persons contacted as well as the date they were contacted. | | | | | | | | | | | | | | | |
| **IX.** **Handler Information** (use EPA’s Microsoft Word or Acrobat Adobe version of the handler information template) | | | | | | | | | | | | | | | |
| Information for all handlers is attached to the FMP  At minimum one handler has the proper respirators and cartridges/canisters  Appropriate respirators and cartridges/canisters are available for each handler that will wear one  Comments/notes: | | | | | | | | | | | | | | | |
| **X.** **Tarp** **Plan** (check here if section is not applicable ) | | | | | | | | | | | | | | | |
| Schedule for checking tarps for damage, tears, and other problems: | | | | | | | | | | | | | | | |
| Minimum size of damage that will be repaired: | | | | | | | | | | | | | | | |
| Factors used to determine when tarp repair will be conducted: | | | | | | | | | | | | | | | |
| Equipment/methods used to perforate tarps:  mechanical: hand: | | | | | | | | | | | | | | | |
| Target dates for perforating tarps: | | | | | | | | | | | | | | | |
| Target dates for removing tarps: | | | | | | | | | | | | | | | |
| **XI.** **Soil Conditions** | | | | | | | | | | | | | | | |
| Soil Texture:  Soil Temperature: Has the air temperature been above 100 OF in any of the 3 days prior to application? Yes or  No  If yes, record the soil temperature measurement:  Soil Moisture: (check the box of the method used to determine the soil moisture) | | | | | | | | | | | | | | | |
| **USDA Feel and Appearance Method**  Description of soil:  Percent water capacity estimate: | | | | **Instrument**  Instrument used:  Percent water capacity: | | | | | | **Other**  Describe method:  Percent water capacity: | | | | | |
| **XII.** **Posting Signs – Fumigant Treated Area and Buffer Zone** | | | | | | | | | | | | | | | |
| Name(s) of person(s) posting Fumigant Treated Area and Buffer Zone signs: | | | | | | | | | | | | | | | |
| Location of Buffer Zone signs: | | | | | | | | | | | | | | | |
| **XIII. Emergency Preparedness and Response Measures** (check here if section is not applicable ) | | | | | | | | | | | | | | | |
| If Emergency Preparedness and Response Measures are triggered, check the option below that will be used:  Fumigant site monitoring or Response information for neighbors | | | | | | | | | | | | | | | |
| Fumigant site monitoring (if applicable)  List when and where it will be conducted: | | | | | | | Response information for neighbors (if applicable)  List residences and businesses informed:  Name and phone number of person providing the information:  List the method of providing the information: | | | | | | | | |
| **XIV. State and/or Tribal Lead Agency Advance Notification** (check here if section is not applicable ) | | | | | | | | | | | | | | | |
| Date notified:  Person notified: | | | | | | | | | | | | | | | |
| **XV.** **Air Monitoring Plan** | | | | | | | | | | | | | | | |
| If monitoring indicates air concentrations greater than or equal to 6000 ppb for methyl isothiocyanate (MITC), handlers must stop work and leave the application block. | | | | | | | | | | | | | | | |
| If sensory irritation is experienced check which of the following be procedures will be followed:  Intend to cease operations or   Intend to continue operations with respiratory protection | | | | | | | | | | | | | | | |
| **Handler Tasks to be Monitored** | | | **Monitoring Equipment** | | | | | | | | **Timing** | | | | |
|  | | |  | | | | | | | |  | | | | |
| **XVI.** **Good Agricultural Practices (GAPs)** | | | | | | | | | | | | | | | |
| Check here if applicable mandatory GAPs are attached to the FMP (this could be a copy of the label highlighting the applicable GAPs). If this box is not checked, the checklist below must be completed. | | | | | | | | | | | | | | | |
| **Shank**  Wind Speed  Weather Conditions  Soil Conditions, Injection Depth, and Soil Sealing  Tarps (check here if not applicable )  Soil Temperature  Soil Moisture  Application and Equipment | | | | | **Spray Blade**  Wind Speed  Weather Conditions  Soil Conditions, Injection Depth, and Soil Sealing  Tarps  Soil Temperature  Soil Moisture  Application and Equipment | | | | | | | | | | |
| **Rotary Tiller**  Wind Speed  Weather Conditions  Soil Conditions, Injection Depth, and Soil Sealing  Tarps  Soil Temperature  Soil Moisture  Application and Equipment | | | | | **Center Pivot**  Wind Speed  Weather Conditions  Soil Conditions  Air Temperature  Soil Temperature  Soil Moisture  Flushing Irrigation Lines  Application and Equipment | | | | | | | | | | |
| **Solid Set Sprinkler**  Wind Speed  Weather Conditions  Soil Conditions  Air Temperature  Soil Temperature  Soil Moisture  Flushing Irrigation Lines  Application and Equipment | | | | | **Drench**  Wind Speed  Weather Conditions  Soil Conditions  Air Temperature  Soil Temperature  Soil Moisture  Application and Equipment | | | | | | | | | | |
| **Drip**  Wind Speed  Weather Conditions  Soil Conditions  Air Temperature  Soil Temperature  Soil Moisture  Tarps  Flushing Irrigation Lines  Application and Equipment | | | | | **Flood Basin, Furrow and Border**  Wind Speed  Weather Conditions  Soil Conditions  Air Temperature  Soil Temperature  Soil Moisture  Tarps  Application and Equipment | | | | | | | | | | |
| Description of other product specific GAPs from label that will be followed: | | | | | | | | | | | | | | | |
| Before beginning the fumigation, I have verified that this site-specific FMP reflects current site conditions and product label directions.  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Signature of certified applicator supervising the fumigation Date** | | | | | | | | | | | | | | | |
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