PHASE 2 SOIL FUMIGATION MANAGEMENT PLAN (METHYL BROMIDE/CHLOROPICRIN PRODUCTS)

FMP Elements:

- I. Certified Applicator Supervising the Application
- II. General Site Information
- III. Application Block Owner Information
- IV. Recordkeeping
- V. General Application Information
- VI. Buffer Zones
- VII. Emergency Response Plan
- VIII. Communication Between Applicator, Owner and Other On-site Handlers
- IX. Handler Information
- X. Tarp Plan
- XI. Soil Conditions
- XII. Posting Signs Fumigant Treated Area and Buffer Zone
- XIII. Emergency Preparedness and Response Measures
- XIV. State and/or Tribal Lead Agency Advance Notification
- XV. Air Monitoring Plan
- XVI. Good Agricultural Practices (GAPs)

A	tı	a	C	h	m	e	n	ts	:
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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 below text fields will expand as the text is entered. After completing each field, use *Tab key* to go to next text field or check box.

I. Certified Applicator Supervising	the Application	, ,	
Name:	Phone number:	License and/or certificate number:	Commercial applicator
			Private applicator
			_ 11
Employer name:	Employer address:		
Employer name.	Employer address.		
Date and location of completing EPA a	approved certified applicator tra	aining program:	
II. General Site Information			
Application block location (e.g., count	v townshin-range-section quad	drant) address including zin code, or g	lobal positioning system
(GPS) coordinates:	y, township runge section quae	manty, address merading zip code, or g	foodi positioning system
	1 . 1		. 11 1 1 1
Site map, aerial photo or detailed s zone dimensions, property lines, roadw			
surrounding structures (occupied and n			
mile of the application block if the buff			
Comments			
Comments:			

III. Application Block Owner Information					
	Address:	Phone number:			
IV. Recordkeeping		<u> </u>			
The owner of the application block has been site-specific FMP and the post-application su			keep a signed copy of the		
V. General Application Information					
Target application date/window:	EPA registration number:	Fumigant product name:			
Identify if application: ☐ Qualifies for a critical use exemption (CU☐ Qualifies for a quarantine exemption and ☐ Does not qualify for a CUE and is listed in	is listed in Table 2, or	ed in Table 1,			
If application qualifies for a quarantine exemption, identify: U.S. Federal, state, or local plant, animal, environmental protection or health authority requiring the quarantine application and the particular quarantine/phytosanitary requirement					
Requirement for the treatment (e.g., the State	or Federal law)				
Documentation of pest(s) for control of (if applicable): Oak Root Fungus (Armillaria mellea) and/or endoparasitic nematodes such as root-knot (Meloidogyne spp.), dagger (Xiphinema spp.), ring (Criconemoides spp.), lesion (Pratylenchus spp.), and pin (Paratylenchus spp.) nematodes for orchard replant Fusarium, Macrophomina, and/or Verticillum for strawberry fruit					
VI. Buffer Zones					
Application method: Tarp bedded Tarp broadcast Deep untarp broadcast (CA only) Hot gas – outdoor Hot gas – greenhouse Hand held probes (tree hole)	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: % credit				
Brand name and tarp manufacturer:				
• Lot Number:				
Batch Number:				
Part Number				
• Thickness:				
• Color:				
Potassium thiosulfate:% credit				
Organic matter content:(measurement), % cre	dit			
Clay content:(measurement),% credit				
Soil temperature:(measurement),% credit				
Total credits:%				
Buffer zone distance:				
Note: For applications in California, the buffer zone distance is based on CDPR Methyl Bromide Field Fumigation Guidance Manual) is the application broadcast shank or hot gas using a tarp that qualifies for a 60% or greater reduction in buffer zone distance? Yes \[\] No If yes, indicate which option will be used The buffer zone period will begin at the start of the application and end after the tarps have been removed from the application block. Two buffer zone periods will be established where the first buffer zone period will be begin at the start of the application and ast for a minimum of 48-hours after the application is complete. The second buffer zone period will begin when the tarps are perforated and end after the tarps have been removed from the application block. 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 attact	hed to the FMP):			
☐ Check here if diagram or drawing is attached or if evacuation rou 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 other emergencies:
other emergencies.
VIII. Communication Between Applicator, Owner, and Other On-site Handlers
Pesticide product labels and material safety data sheets are at the application block and available for employees to review.
Will the certified applicator be at the application site during all handler activities that take place after the application is complete 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 PDF version of the handler information template)
☐ Information for all handlers is attached to the FMP ☐ At minimum 2 handlers have 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:
Maximum time following notification of damage that the person(s) responsible for tarp repair will respond:
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: hand:

Target dates for perforating tarps:				
Target dates for removing tarps:				
- mg. ames are come and amps				
VI 6 2 6 10				
XI. Soil Conditions Soil Texture:				
Soil Temperature: Has the air temperature been	above 100°F in any	of the 3 days prior to a	application?	
If yes, record the soil temperature measurement:				
Soil Moisture: (check the box of the method use USDA Feel and Appearance Method	ed to determine the s Instrument	oil moisture)	Other	
Description of soil:	Instrument used:		Describe method:	
Percent water capacity estimate:	Percent water capa	city:	Percent water capacity:	
XII. Posting Signs – Fumigant Treated Area Name(s) of person(s) posting and removing Fun		and Ruffer Zone signs:		
Traine(s) of person(s) posting and removing run	ngunt Trouted Tirou	and Burrer Zone signs.		
Location of Buffer Zone signs:				
Location of Buffer Zone signs.				
XIII. Emergency Preparedness and Response	Magguros (chack h	ara if saction is not ann	licable 🔲	
If Emergency Preparedness and Response Meas			·	
☐ Fumigant site monitoring or ☐ Response i	nformation for neigh	bors		
Fumigant site monitoring (if applicable)		Response information for neighbors (if applicable)		
List when and where it will be conducted:		List residences and businesses informed:		

		Name and phone number of	person providing the information:	
		List the method of providing	g the information:	
XIV. State and/or Tribal Lead Agency Advance	e Notification (che	eck here if section is not appli	icable [])	
Date notified:				
Person notified:				
XV. Air Monitoring Plan				
If monitoring indicates air concentrations greater t bromide, handlers must stop work and leave the ap	han or equal to 1.5	ppm for chloropicrin or grea	ter than or equal to 5 ppm for methyl	
Will the product applied contain at least 20% chloro		☐ No		
If Yes, 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				
☐ Intend to cease operations or ☐ Intend to co	ntinue operations	with respiratory protection		
☐ Intend to cease operations or ☐ Intend to co Handler Tasks to be Monitored	Monitoring Equ		Timing	
Handler Tasks to be Monitored	Monitoring Equ		Timing	
Handler Tasks to be Monitored For monitoring after tarp perforation is complete.	Monitoring Equ	nipment	Timing	
Handler Tasks to be Monitored	Monitoring Equ		Timing	

For monitoring residential structures with	in the buffer zone prio	r to re-entry (check h	ere if section is not applicable :		
Monitoring Equipment	Timing		Monitoring Location		
XVI. Good Agricultural Practices (GAPs)					
GAPs). If this box is not checked, the checkly Bed General Tarps Soil temperature	☐ 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. Bedded and Broadcast Shank Applications ☐ Tarps ☐ Soil preparation ☐ Weather conditions ☐ Application depth and spacing ☐ Soil temperature ☐ Prevention of end row spillage ☐ Soil moisture ☐ Calibration, set-up, repair, and maintenance for application rigs				
Tree Replant Application Using Handheld ☐ Soil preparation ☐ Application depth ☐ System flush ☐ Soil sealing	Equipment				
☐ Hot gas applications to soil, potting mixes ☐ Pre-plant soil fumigation in greenhouses ☐ Control of <i>Armilluria mellea</i> (oak root fur ☐ Non-tarp nematode control (only for deep	ngus) for orchard replan	applications	e application in CA)		
Description of other product specific GAPs fi	rom label that will be fol	llowed:			

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 application Date

Handler (including certified applicator) Information and PPE

Handler Name, Address, and Phone Number	Employer Name, Address, and Phone Number	Tasks Handlers are Trained and Authorized to Perform* (check number(s) from below)	PPE (check all that apply)	Respirator Information (leave blank if "no respirator" is checked under PPE)
		□1 □2 □3 □4 □5 □6 □7 □8 □9 □10 □11	□ Long-sleeved shirt/long-pants, shoes, socks □ Chemical-resistant apron □ Chemical-resistant footwear and socks □ Protective eyewear (NOT goggles) □ Chemical-resistant gloves □ Half-mask air-purifying respirator □ Full-face air-purifying respirator □ Self contained breathing apparatus □ Other: □ No respirator PPE training date:	Make: Model: Type: Style: Size: Cartridge type: Fit test date: Training date: Medical qualification date: Make: Model: Type: Style: Size: Cartridge type: Fit test date: Training date: Medical qualification date: Make: Size: Cartridge type: Fit test date: Training date: Medical qualification date: Make: Model: Type: Style: Size: Cartridge type: Fit test date: Training date: Medical qualification date: Medical qualification date:
The above handler has received Fumigant Safe Handling Information within the past 12 months. *1. Loaders, drivers, tractor co-pilots, shovelers, cross-ditchers, or other direct application participants 2. Cleaning up fumigant spills (does not include emergency personnel not associated with the application) 3. Tasks with liquid contact potential 4. Installing, perforating or removing tarps 5. Repairing, or monitoring tarps until14 days after the application is complete if tarps are not perforated and removed during those 14 days. 6. Monitoring fumigant air concentrations 7. Handling or disposing of fumigant containers 8. Cleaning, handling, adjusting, or repairing equipment that may contain fumigant residues 9. Installing, repairing, operating, or removing irrigation equipment in the application block or buffer zone 10. Performing scouting, crop advising, or monitoring tasks in the application block or buffer zone 11. Performing other WPS handling tasks				
Comments/notes:				

Handler Name, Address, and Phone Number	Employer Name, Address, and Phone Number	Tasks Handlers are Trained and Authorized to Perform* (check number(s) from below)	PPE (check all that apply)	Respirator Information (leave blank if "no respirator" is checked under PPE)