Soil Fumigation Pre-Application Checklist

Items	Sta Yes	tus No
Applicator Licensing and Certification		
Annual pesticide license renewal fee has been paid		
Certification		
 WSDA Soil Fumigation RMM endorsement OR 		
Achieva certification is current for each active ingredient being used (three-year renewal cycle) ¹		
 Received fumigant safe handling information within the past 12 months¹ 		
■ Commercial Applicators only		
► Commercial Operators are listed with WSDA under the Commercial Applicator's license		ı
¹Requirements do not apply to TELONE™ II by Teleos or to TELONE™ EC by Teleos.		
Shank Applications		
Application Apparatus		
 Dry disconnects installed on transfer hose at all break points from supply tank to shank apparatus (As an alternative, break points can be "hard plumbed.") 		1
■ Equipment in good repair (no leaks or broken parts)		l
■ Commercial Applications only:		
► Apparatus is registered with commercial applicator's license		
► WSDA apparatus plate with current year sticker is attached		
Field Storage Tanks		
 Current registered product label with EPA Est. Number attached in prominent location and legible 		
■ Tank labeling information¹		
► National Fire Prevention Association placard (diamond)		
► Owner's name		
► Identifying number		
► Tank capacity		
▶ Date of container placement sealed in a weather-proof enclosure		
¹ Lettering must be a minimum of 2 inches in height and in a color contrasting to the background		
Chemigation Applications (Only applies to TELONE™ EC and to metam sodium and metam potas	sium pro	oducts)
Backflow devices properly installed and functional		
Irrigation mainline check valve		
 Vacuum relief valve 		
Inspection port		
Low pressure drain		
Injection system devices installed and functional		
Injection line check valve with at least a 10 psi spring		
 System interlock operational (electrical, flow meter, pressure switch) 		
■ Injection pump		
► Calibrated		i
► Commercial applications only: WSDA plate attached with current year sticker		
Application Tank	T	
Currently registered product label attached to each tank		
 Appropriate EPA Establishment Number (Registrant or Dealership) displayed on each tank 		

Items	Status Yes No
Application Tank (cont.)	
 Identification information in contrasting color to the background (2-inch minimum height) 	
► Contact name	
► Contact phone number	
► Unique identifier	
 Volume of contents (generally imprinted onto tank at time of molding) 	
Fumigant Management Plan (Does not apply to TELONE™ II by Teleos or TELONE™ EC by Teleos	5)
Completed before the start of the application, and signed and dated by the Applicator-in-Charge	
Emergency contact information is complete with correct contact names and phone numbers	
Pre-application weather forecast assessment (atmospheric inversion, air stagnation advisory, wind)	
Personal Protection Equipment, including Respirators	.
Chemical-resistant protective clothing provided	
■ Long-sleeve shirt and long pants ^{1,2,3}	
■ Coveralls with apron or chemical-resistant suit ¹	
■ Shoes plus socks ^{1,2,3}	
 Rubber boots or boot covers, or other chemical-resistant footwear¹ 	
■ Chemical resistant gloves¹	
 Protective eyewear (non-venting goggles, face shield, or full-face respirator)^{1,3} 	
Respirator (Refer to "Precautionary Statements - Personal Protection Equipment" section of the pesticid	le label)
Handler assessment	
► Medical evaluation has been performed by a licensed health care provider	
► Fit-testing and training performed annually	
 Respirator use 	1
► Organic vapor cartridges replaced and dated to track usage	
► Seal check is performed each time respirator is donned	
► Respirator cleaned and inspected after each day's use	
▶ Respirator placed into a sealable container and kept separate from contaminated PPE	
 Respiratory Protection Program prepared and implemented, Program Administrator designated 	
 Transferring or loading product, repairing or inactivating irrigation or chemigation equipment during application up spills or equipment, and operating tractors with open cabs. Tractor operators in closed cabs. Set-up and calibrate chemigation and irrigation equipment and start the application within the application 	
Air Monitoring Device (Does not apply to TELONE™ II by Teleos or TELONE™ EC by Teleos)	II DIOCK.
Direct read detection device (e.g., Draeger, Sensidyne) to monitor air concentration levels	
Air monitoring device available	
An infolitioning device available A pesticide handler is trained in use of the detection device	
Colorimetric detection tubes	
Appropriate sensitivity to detect threshold level for soil fumigant being applied	
Tubes have not exceeded the expiration date printed on the box	
Field Signage	
General guidelines Placed page apport then 34 hours prior to the start of the application.	
Placed no sooner than 24-hours prior to the start of the application	
 Signage must be removed within 48-hours of the end of the posting period Signage must remain legible throughout the posting time frame. 	
 Signage must remain legible throughout the posting time frame Minimum size of lettering is at least 1 inch in height 	
 Minimum size of lettering is at least 1 inch in height Name of Applicator-in-Charge appears on buffer zone & application block signs (except TELONE™ II) 	

Items Yes No Buffer Zone Notification and Exclusionary Restrictions (Does not apply to TELONE™ II by Teleos or TELONE™ EC by Teleos) Structures under the control of the owner or renter/lessee of application block¹ Buildings used for storage (sheds, barns, garages) cannot be occupied during buffer zone period Areas not under control of owner or operator of application block (letter of agreement required and must voluntarily leave)¹ Residential areas (employee housing, private property) Publicly owned and/or operated areas (parks, sidewalks, permanent walking paths, playgrounds, and athletic fields) Commercial and industrial buildings Outdoor residential areas (lawns, gardens, and play areas) Other areas that people may occupy (parks, golf courses, playgrounds, athletic fields, permanent walking trails, sidewalks, and bus stops) Agricultural areas owned and/or operated by persons other than owner or renter/lessee owner of the application block Adjoining fields with active buffer zones (exemption for low release height-solid stream systems) Roadways (exemption for vehicular and bicycle transit) and rights-of-way and public transit Difficult-to-evacuate site (fumigant application setback distance from application block is based on size of buffer zone)² Pre-K to grade 12 schools, state licensed daycare centers, nursing homes, assisted living facilities, hospitals, in-patient clinics, and prisons During the application and for the 48-hour period after completion of the application. ² During the application and for the 36-hour period after completion of the application. Worker Protection Standard Notification (soil fumigant labels require that both oral notification and field posting must occur) 1 Central Posting Area (where workers & handlers are likely to pass by or congregate and where can be easily seen) Pesticide safety information is displayed. ▶ Pesticide-specific application information is listed along with SDS(s). Oral Notification¹ Provided to agricultural workers on the farm before the application takes place OR ▶ At the beginning of their first work period if application is still occurring or ERP is still in effect Information Exchange (must occur before a soil fumigant application takes place; WSDA forms are available) ► Commercial applicator notifies client of the pesticide being applied Elements: Location and description of area to be treated, complete product name, EPA registration number, active ingredient(s), application date(s) and start and estimated end time, REI/ERP interval, PPE requirements for pesticide handlers and early-entry workers during or after application, and whether both posting and oral notification are required. ► Farm operator notifies commercial pesticide company about the pesticide being applied Elements: Location and description of area under a REI/ERP and restrictions on entering those areas (that is, PPE requirement for pesticide handlers and early-entry workers). • Decontamination supplies for pesticide handlers (Refer to WSDA AGR PUB 706-465 for detailed information) Maintain an emergency decontamination site within ¼-mile of pesticide handlers and establish a decontamination site at mixing and loading sites that include the following: • If the pesticide label requires protective eyewear, provide: ▶ each pesticide handler with at least 1 pint of emergency eyeflush (must be immediately available to the pesticide handler) ► Emergency eyewash at PPE decon site and at the mix/load site (if at separate locations) - Plumbed or portable eyewash station delivers at least 0.4 gallons of water per minute for 15 minutes (6 gallons total) and is capable of irrigating both eyes simultaneously Sufficient water for routine washing Worker- or handler-employer is ultimately responsible for oral notification and posting information to the central area.

Status

Items	Sta Yes	tus No
Worker Protection Standard (cont.)		
 ■ Enough water for washing the entire body in case of an emergency ▶ Minimum of 10 gallons of water for one employee or 20 gallons for two or more employees 		
Soap and single-use towels (e.g., paper towels)		
Clean change of clothes (e.g., coveralls, Tyvex suit)		
Where pesticide handlers <u>remove their protective clothing</u> (if a different location than the mixing and loading site), provide at least:		
➤ Sufficient amount of water for employees to wash thoroughly		
► Soap and clean towels		
Pesticide handler training and access to application block and buffer zone	•	•
 Training conducted annually using EPA-approved training materials 		
 Only properly trained & equipped handlers are allowed into buffer zone and onto application block 		•

Safety and Spill Response Information		
Nature of Emergency	Phone Numbers	
Emergency Medical Treatment Information		
National Poison Control Center (caller will be forwarded to regional center for the calling area)	1-800-222-1222	
Product Usage Information		
AMVAC Chemical Corporation	1-888-681-4261	
Soil Chemicals Corporation (d.b.a., Cardinal Professional Products)	1-800-424-9300	
Teleos Ag Solutions	1-800-424-9300	
Taminco, Incorporated	1-800-223-3258	
TKI NovaSource, Incorporated	1-866-374-1975	
Trident Agricultural Products, Incorporated	1-800-424-9300	
Spills		
The following TWO (2) 24-hour numbers must be called or in the event of a pesticide spill: 1) Washington State Emergency Management Division (EMD): (EMD may be called instead of the regional Ecology offices, which are listed below.) • EMD or Ecology MUST be contacted ▶ if oil or a hazardous substance threatens to enter or has entered water of the state OR ▶ pesticide spills of any quantity that threatens human health or the environment. AND 2) National Response Center (NRC) • NRC MUST be notified when ▶ a reportable quantity of a hazardous substance is released − Refer to SDS (Safety Data Sheet, formerly, MSDS), Section 15: Regulatory Information (Emergency Planning and Community Right-to-Know Act [CERCLA] Section 103 - Reportable Quantity, RQ) OR	1-800-258-5990 1-800-424-8802	
▶ any quantity of oil or hazardous substance enters any water of the state.		

Basic Spill Emergency Procedures

• Control the Site

Secure site & control access. Care for injured. Render basic first aid. Seek medical assistance, if needed. Determine pesticide(s) involved. Prior to entering a contaminated area, don appropriate personal protection equipment (PPE).

- Contain the Spill (as much as possible at site of the spill, given level of training and available resources)
 Wear appropriate PPE. Prevent further leakage or prevent from spreading. Divert flow from sensitive areas.
- Cleanup and Decontamination

Wear suitable PPE. Refer to SDS, Sections 5 & 6 for response measures, safety and precautionary procedures.

• Contact (reporting of spill and notifying proper authorities, if warranted). Be prepared to report on: Who is reporting, location of spill, what and how much spilled, damages incurred, and cleanup procedures taken.

Transportation (Roadway) Emergencies	
CHEMTREC (Leaks, spill, fire, exposure, or accident)	1-800-424-9300
Washington State Patrol or County Sheriff Department	9-1-1