Oregon OSHA FACT SHEET

Aluminum phosphide and Fumigation Management Plans (FMPs) for structures

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Aluminum phosphide and umigation Management Plans (FMPs) for structures

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Oregon OSHA **Aluminum phosphide** is the active ingredient in one type of fumigant used to kill insects in a variety of structures including grain bins, rail cars, warehouses, shipping containers, and ships.

Aluminum phosphide comes in different forms including tablets, pellets, ropes, and prepac ropes. Aluminum phosphide fumigants are restricted-use pesticides and can only be purchased and used under the supervision of a licensed pesticide applicator. Trade names for products that contain aluminum phosphide include: Fumitoxin, Phostoxin, Weevil-cide, Gastoxin and Phosfume.

Why is a FMP required?

A FMP is a written document required by the U.S. Environmental Protection Agency to ensure structures are fumigated safely, and effectively. Applicators must prepare a fumigation management plan *before* they use the fumigant.

Aluminum phosphide fumigants produce phosphine, an extremely toxic, flammable and potentially explosive gas. When used or stored improperly, aluminum phosphide fumigants have resulted in deaths, explosions and fires.

How to prepare a FMP for structures

When you purchase an aluminum phosphide fumigant, you must receive an applicator's manual. The applicator's manual is part of the label. Read and follow all the instructions on the product label and in the applicator's manual *before* you prepare the FMP. You'll find the information you need to prepare a FMP in section 20 of the applicator's manual.

A FMP for structures includes the following information:

- A description of the structure and the commodity being fumigated. Include the purpose of the application and the dosage, a sketch of the facility, evacuation routes, emergency utility shut-offs, and locations of telephones.
- **Personnel training and notification.** Keep a record that all personnel at the site have been notified about the application and that they know what to do in an emergency. Ensure that applicators read the label and the applicator's manual and that they are aware of aluminum phosphide hazards.
- Exposure monitoring. Develop a monitoring plan based on the type of fumigation performed. The monitoring plan helps ensure that levels of phosphine gas are safe outside the structure and the levels inside the structure achieve the best pest control.
- **Notification of authorities.** Document when you notified local authorities about the application and prepare an emergency response plan.
- Sealing procedures. Describe how the structure will be sealed to prevent fumigant vapors from escaping. Determine if construction or renovation work has altered the building to make it unsuitable for fumigation. Document that warning placards have been placed on every entrance.
- **Application procedures and fumigation period.** Describe all application procedures including the number of persons involved and how they are supervised.
- **Post-application operations**. Describe safety measures necessary after the fumigation is over. Include how will you keep unauthorized persons away from the structure during the aeration process and who will be responsible for removing warning placards.

You must prepare a FMP for **each** fumigation. Keep the FMP on file for two years.

(FMPs) for structures continued

What requirements apply to aluminum phosphide fumigants?

Oregon OSHA's requirements for structures

Agricultural operations

- Division 4/Z, 437-004-9010 Fumigated areas
- Division 4/N, 437-004-1680 Storage of hazardous chemicals
- Division 4/Z, 437-004-9800 Hazard communication for agricultural employers
- Division 4/Z, 437-004-9000 Oregon rules for air contaminants
- Division 4/K, 437-004-1305 Medical services and first aid

General industry operations

- Division 1, 437- 001-0760 (c) (1) Health Hazard Control Measures
- Division 2/Z, 1910.1200 Hazard Communication
- Division2/Z, 437-002-0382Oregon Rules for Air Contaminants
- Division 2/I, 1910.134 Respiratory Protection
- Division 2/J, 437-002-0146 Confined Spaces
- Division 2/K, 437-002-0161 Medical Services and First Aid
- Division 2/N, 437-002-0221 & 1910.176 Material Handling

Oregon Department of Agriculture: prohibited acts

- Using a pesticide inconsistent with its labeling. 634.373(2)
- Performing a pesticide application in a faulty or careless manner. 634.373(4)
- As a pesticide applicator, working or engaging in the application of any class of pesticides without first obtaining and maintaining a pesticide applicator's license, or applying pesticides which are not specifically authorized by such license. 634.372 (8)
- As a pesticide operator, engaging in the business of, or representing or advertising as being in
 the business of, applying pesticides upon the land or property of another, without first obtaining
 and maintaining a pesticide operator's license; nor shall such person engage in a class of
 pesticide application business which is not specifically authorized by license issued by the State
 Department of Agriculture. Further, no such person shall employ or use any person to apply or
 spray pesticides who is not a licensed pesticide applicator or pesticide trainee. 634.372(9)
- As a pesticide trainee, working or engaging in the application of any class of pesticides without first obtaining and maintaining a pesticide trainee's certificate. 634.372 (10)
- Applying any pesticide classified as a restricted-use or highly-toxic pesticide to agricultural, horticultural or forest crops on land owned or leased by the person without first obtaining and maintaining a private applicator certificate. 643.372 (13)

Oregon State Fire Marshal

Fumigation operations within structures shall comply with Chapter 17 of the Oregon Fire Code.

Where to find more information

Copies of applicator's manuals in English and Spanish, Safety Data Sheets, and product labels are available at www.pestcon.com.

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