



Mitigation

Difficult to evacuate sites

“Difficult to evacuate sites” include schools, state licensed day-care facilities, nursing homes, hospitals, assisted living facilities, in-patient clinics, and prisons.

- No fumigant applications with buffer zones of greater than 300 feet will be allowed within ¼ mile (1,320 feet) of a “difficult to evacuate site” unless site will not be occupied during application and 36 hours after application is complete.
- If fumigation buffer zone is 300 feet or less, then no fumigant applications will be permitted within ⅛ mile (660 feet) of a “difficult to evacuate site” unless site will not be occupied during application and 36 hours after application is complete.



Summary of 2010 label changes

- Agricultural worker protection information.
- Handler training.
- Respirator & PPE for handlers.
- Good agricultural practices (GAPs).
- Measurements to document and verify compliance with GAPs.
- Application method, practice and rate restrictions.
- Methyl bromide, Chloropicrin, Metam sodium, Metam potassium and Dazomet are classified as restricted use pesticides (RUPs).
- Partial site-specific Fumigation Management Plans (FMPs).
- Air monitoring and hazard communication procedures.
- Posting and recordkeeping procedures.
- Soil and weather conditions.
- Authorized on-site personnel.
- Hazard communication plan.
- Emergency plans and procedures.
- Post-application summary report.
- FMPs must be kept for two years.

More information

Agency contacts

Oregon Department of Agriculture

Pesticides Division
635 Capitol St. NE
Salem, OR 97301
Phone: 503-986-4635 Fax: 503-986-4735
Web: <http://oregon.gov/ODA/PEST>
E-mail: pestx@oda.state.or.us

Oregon Occupational Health & Safety Administration

Garnet Cooke
PO Box 14513
Salem, OR 97309
Phone: 503-378-3274 Fax: 503-378-4921

Stanton Thomas
Red Oaks Square
1230 NE Third St. Suite, A-115
Bend, OR 97701

Phone: 541-388-6066
Web: <http://orosha.org>

EPA Soil Fumigation Toolbox

http://epa.gov/opp00001/reregistration/soil_fumigants

Resources

Draeger Safety, Inc.

Web: <http://www.draeger.com>
Mike Yanosky
Phone: 1-800-922-5518

Monitoring supplies

Norco's Customer Service

Phone: 509-543-2022 Fax: 509-543-2023
Dominic Castillo
Phone: 509-948-1178

Oregon Emergency Response

Phone: 1-800-452-0311

National Pesticide Information Center

Phone: 1-800-858-7378
E-mail: npic@ace.orst.edu

Commercial business listings are provided as resources only. ODA does not endorse any private service providers.



EPA Soil Fumigation Regulations for 2012

Second phase of requirements for pesticides used as soil fumigants including:

- Methyl bromide
- Chloropicrin
- Metam sodium
- Metam potassium
- Dazomet

This brochure highlights several of the label changes and requirements.

For full details go to:
http://epa.gov/opp00001/reregistration/soil_fumigants



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Always read and follow the pesticide label.

New EPA fumigation rules

Agriculture soil fumigation

Buffer zone requirements

- Fumigant labels require users to establish a buffer zone around each treated area. A buffer zone extends from the edge of the treated area equally in all directions.
- All field workers, nearby residents, pedestrians, people waiting for public transportation, and other bystanders must be kept out of buffer zone during buffer zone period, except for people in transit (vehicle and bicycle).
- Publicly and privately owned areas may be included in a buffer zone if the area will be unoccupied during buffer zone period and written permission is obtained from state and local authorities or landowner responsible for management and operation of the area.
- Buffer zones may include agricultural areas owned or operated by someone else if buffer zone will not overlap and owner or operator provides written agreement that no one will enter.
- Residential areas can only occur within a buffer zone if occupants agree in writing to voluntarily vacate property.
- Buffer zone period begins when any fumigant is dispensed in treated area or greenhouse and lasts for a minimum of 48 hours after fumigant application has been stopped.

Size of buffer zone

Labels will have charts showing buffer zone sizes based on

- application rate.
- size of area to be fumigated.
- application equipment.
- methods of application.

See label for charts to determine buffer zone sizes.

Ways to reduce buffer zones

Fumigators who use EPA approved good agricultural practices (GAPs) may be able to reduce emissions and reduce buffer zone distances with “buffer credits.”

Some site conditions may qualify for buffer zone credits.

- Smallest buffer zone distance is 25 feet.
- Calculations must be included in Fumigant Management Plans (FMP).
- Buffer zones can only overlap under specific situations including use of low drift systems. **READ THE PRODUCT LABEL** for details. Check label or EPA Soil Fumigation website for all buffer zone requirements.

Fumigator responsibilities

Fumigators can choose to either monitor buffer boundary or provide emergency response information directly to neighbors of buffer zones.

- If fumigator chooses to monitor buffers, the emergency response plan stated in FMP must be implemented if person monitoring buffer experiences sensory irritation or if air concentrations reach action levels stated on label. **Monitoring must be done four times per day during buffer zone period. See label for specifics.**
- If fumigator elects to provide emergency response information directly to neighbors, the licensed applicator supervising the fumigation, or someone under their direct supervision must provide residents and business owners/operators with response information at least one week prior to fumigant application. **Method of information distribution must be described in the FMP.**

Posting requirements

Buffer zones need to be posted to communicate information to bystanders about location and timing of fumigant applications. Posting is required for usual points of entry, and along likely routes of approach to buffers, unless physical barriers prevent access to buffer zone.

Signs must include the “DO NOT WALK” symbol and contact information of the fumigator.

Complete site specific Fumigant Management Plans (FMPs)

Templates are available on EPA’s website for each of the listed fumigant active ingredients. See EPA’s website for all FMP templates: http://epa.gov/opp00001/reregistration/soil_fumigants/soil-fum-mgmt-plans-templates.html

New post fumigation summary report requirements

In addition to the pre-application FMP, the licensed supervising applicator must complete a post-application summary within 30 days after completing fumigant application. Post application summary FMPs must be kept for two years from date of application.

