





Pesticide Storage and Wildfire



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Pesticide Coordinator
Oregon OSHA

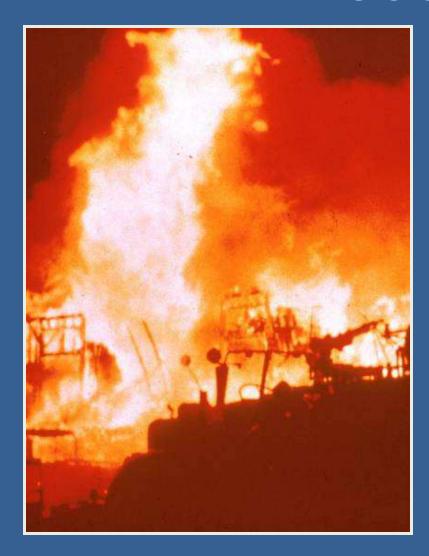


Is Your Pesticide Storage Area Prepared for Wildfire?





Fires Involving Pesticide Storage are COSTLY





BUT there are steps you can take!

Ag sites at greatest RISK

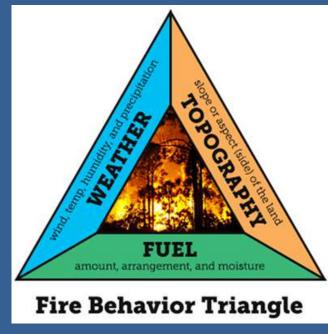
- Orchards
- Vineyards
- Christmas trees
- Wildland-Ag interface





Risk Factors to Consider

- Topography
- Fuel (vegetative/fuel storage)
- Structures fire rated roof, vents screen, rain gutters and roof cleaned of debris?
- Buffer of 0-5 feet around the building?
- Water resources*
- Access
- ✓ Equipment



"Asbestos" Forest



A Rare Wind Event Has Northwest Oregon Under a Critical Fire Warning

The Beachie Creek Fire: Unprecedented expansion From 500 ac to 130,000 ac overnight Winds at 50-75 MPH Fire spread at 2.77 acres per second



The Wildfire Super Spreader

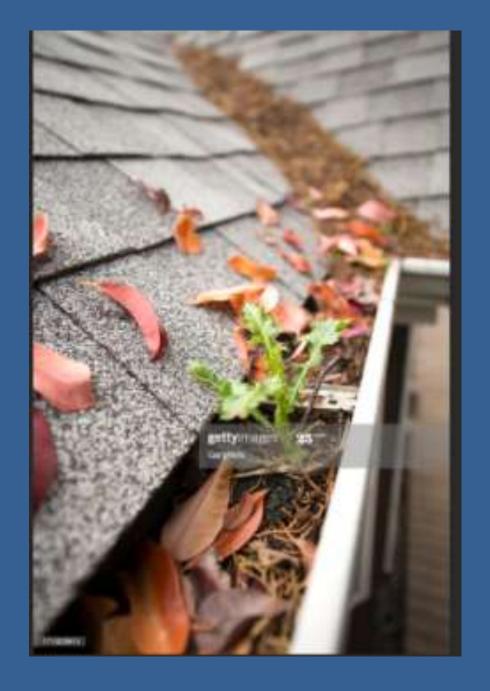


Embers Cause Up to 90% of Home & Business Ignitions During Wildfire Events





Gutters filled with debris + firebrands = roof ignition





Roofing: Metal or Class A

Siding: Metal or non-combustible material



Defensible Space – think flame length and flame contact

- Maintain 5 feet from structure with non-combustible vegetation or materials.
- If there is a nearby tree, ensure no ladder fuels
- Clean debris from roof and gutters
- Locate fuel tanks away from the pesticide storage area,
 maintain vegetation around the tanks

Which one are you?







Wildfire Pre-plan



- Keep an inventory of all pesticides in storage
- Prior to fire season have a maintenance pre-check – minimize fuel such as cardboard, dried grasses
- Have an emergency plan
- Communicate with your fire service- FD, ODF, USFS

Structural vs Wildland Firefighting

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environment damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contracting an ignition source. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Review the SDS



After a Fire

Contact the Pesticide Manufacturer For Assistance!

Not all Haz Mat Contractors are familiar with pesticides – especially aluminum phosphide!





This fact sheet provides guidance about safety starring peets date on your farm, much, or other agricultural facility. It is important to understand Oregon CSHVs standard, QAS 417-064-1680, Storage of Researches Chemicots, as well as regulations from other agencies.

Where to store

Carefully consider usil and fand surface characteristics when relecting a storage site to prevent contamination of groundwater and to minimize the potential for run-off into surface water or other resistive area. Refer to persode labels for guidance on storing, making, or loading at the appropriate distances from water sources.

If winds blow mostly from one-direction, locate your storage facility downwind from dwellings and other areas where people-spand time.

Reep food and animal feed expanse from stored chemican to prevent cross-contamination.

The storage facility

Keep the perticide stotage area locked. Keeping your stotage area or facility as small as practical allows you to have only the chemicals on vite that you mailly need. Stotage facilities should be constructed with northamnable materials, when possible

Chemical storage must be in compliance with the manufacture's wire-close on the label or salvey data sheet (SDS) to present conditions that could adversely affect contains integrity or product stability.

Physically separate substances and label each area to provert the reasing of incompatible types of chemicals.

There must be enough natural or untilitial light inside the storage area to allow evoriers to move and work safety. The rule requires at least 20 foot-caroline (21) 28 list of light.

We till the chemical shorage areas to ensure that an contaminants are has than 25 percent of the lower supjoints level E.E.) of any stoned chemical before employees enter the facility. The premisable exposure limits (FELs) in DNR-617-004-9001. Are Contaminants, also apple.



Where you store restricted-use pesticides:

- Lock the storage area to prevent access by unsufficiend people.
- Provide separate sections within the stimuge area for each category of pesticide product. Examples include tracticides, furbicides, fungicides, and flumigants. Label these areas by the general category.
- * Import from and shelves are constructed with a chemically-resistant maneral; or coursed, selled, or accompanied with secondary (unbaloneers that prevents the absorption of the inspections chemicals.
- Provide sufficient containment of any potential leaks us quits when the storage area contains enough chemicals that a leak or quit could cause the numerial to leave the storage facility.

Salam Central Office 262 Wester 1s. NE Salam, OR 97501-2862 Phone 103 (78-1272 To 8-thms 000 (02-200) Fee: 103 947-7461

Safe storage practices storage, handling, and removing topicides chemical containers must not county hazards to workers.

Follow all manufacturers' instructions, usually found on the chemical container's label or on the SDS. Remember that for postscides, the label is the law.

All containers must have a legible label. Reep chemicals in their original containers. Never dose chemicals in containers normally used for other purposes, such as food strates. Some personal forms and away from sources of the or ignition.

Keep your S25 and his estinguishers where they are safely accessible in an error policy.

Local responders

Notify your facul emergency teaporation this and polius; about where you keep pear pedicides and other facultion chemicals. Chemical closups areas should.

comply with appropriate state and local fire codes, identify chemical stronge haiddings with a sign in exceptance with NEPA 704. For example, some pesticides are flammable and will produce took furner when they burn. Other pesticides such as the furniques assessment phosphide—exact violently in contact with early.



STORAGE OF AGRICULTURAL PESTICIDES



Other requirements

Storage of Haparchica Chemicals, CAR 437-004-1688 provides additional information not included in this fact sheet.

Other Oregon OSHA rules that apply to the rule storage or handling of chemicals:

- + Subdivision 4/H, Hazardayi Manetali.
- + Subdivision 4/1. Processor Equipment
- + Subdivision 4/K, Maded/First Aid
- Subdivision 6/S, Dictricty
- Subdivision 4/W, Warter Protection Inmoded
- + Subdivision 4/Z, Chemical/States

Other regulators

The following agencies also have rules and responsibilities regarding the closurge of participles and other hustardous characters:

- Oregon Department of Environmental Quality
 www.uresco.com/DED/retos.chtml
- · Office of State Fire Harshall
- Building Codes Division
- https://www.orenne.gov/bc/hilleges/hilles.es
- Oregon Department of Agriculture
- Your local fire and law enforcement agencies

The National Michigan (1994) position of this dust density by highly the Bit would not be the The information is strong of the payaboness the ratio and provide best practices to respility en-



A District of the Department of Consumer and Business Services

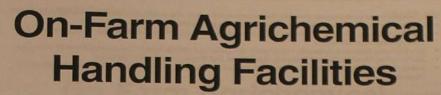
osha.oregon.gov



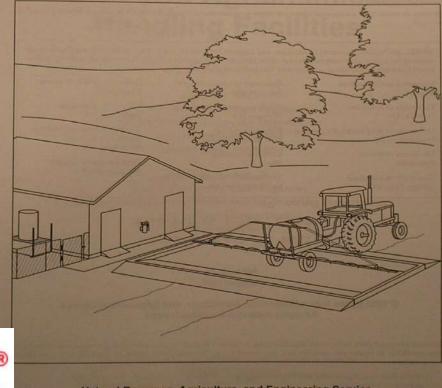
Resources:



IBHS.ORG



NRAES-78







FIREWISE USA®

RESIDENTS REDUCING WILDFIRE RISKS

Natural Resource, Agriculture, and Engineering Service
Cooperative Extension

RESOURCES

Old chemicals:

<u>www.oregon.gov/oda/programs/Pesticides/Water/Pages/Pesticide</u> <u>Stewardship.aspx</u>

Grants: Soil & Water Conservation Districts

General issues: Free Consultative Services

Fire Preparedness: www.firewise.org www.ibhs.org

Fire Readiness: ODF, FD



Other Considerations

- Evacuation plan for labor housing occupants
- Where will they go, how will they get there
 - Have they got Go Bags?

Do not under estimate the fear factor

• Think and **PLAN**: **Before, During** and **After** the Fire



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