

## Preventing Phosphine Poisoning and Explosions during Fumigation

## WARNINGI

Workers may be poisoned, injured, or killed by phosphine gas while working with or near phosphide fumigants.

**Workers**, do the following if you work near phosphidefumigants:

- Observe warning signs and know which work areas have been fumigated. Do not enter them until they have been aired out and mon i tored to show that they are safe.
- Pay careful attention to handling procedures on phosphidefumigantlabels.
- Be aware that phosphide fumigants may ex plode when they con tact air or are mixed with water.
- Take part in any air monitoring or training pro grams your em ployer of fers.
- Do not rely on odor to warn you about toxic amounts of phosphine gas.
- Use the respiratory protection and protective clothing recommended in this Alert (see back of sheet to order complete Alert).
- Change into protective clothes before handlingfumigants.

- Do not eat, drink, or use tobacco in areas where phosphide fumigants are used.
- Wash your hands and face before you eat, drink, or smoke.
- If possible, shower and change into clean clothes be fore you leave work.



Aluminum and magnesium phosphide containers may flash on opening. Pay care ful at tention to han dling procedures on labels.

Please tear out and post.
Distribute copies to workers.

See back of sheet for employer recommendations and ordering information.

**Employers**, do the following to protect your workers from phosphide fumigants:

- Comply with all applicable OSHA and EPAregulations.
- Inform workers that phosphide fumigants may cause fatalill ness or in jury.
- Tell workers which materials contain phosphide fumigants or are contaminated with them.
- Make sure that phos phide fu mi gants are properly disposed of by trained workers.
- Pay special attention to the explosive nature of phosphide fumigants in confined spaces or mixed with water.
- Determine the potential for worker exposure.
- Do not rely on odor to warn workers about toxic amounts of phosphine gas.

- Carefully monitor air concentrations of phos phine gas in the work area and the work ers' per sonal breathing zones.
- Post warning signs to in dicate fu mi gated areas.
- Decide when and where respirators should be used.
- Provide the respiratory protection and personal protective equipment recommended in this Alert (see be low to or der complete Alert).
- Pro vide train ing pro grams for work ers to re duce ex po sures to fu mi gants.
- Be aware of the many symptoms associ ated with phos phine gas ex po sure.
- Seek immediate medical attention for exposed workers with severe respiratory symp toms.
- Do not permit workers with symptoms such as dizziness and lightheadedness to drive or per form other complex tasks.

For additional information, see *NIOSH Alert: Pre venting Phos phine Poisoning and Explosions during Fumigation* [DHHS (NIOSH) Publication No. 99–126]. Sin gle copies of the Alert are available free from the following:

National Institute for Occupational Safety and Health Publications Dissemination 4676 Columbia Park way Cincinnati, OH 45226–1998

Fax num ber: (513) 533–8573
Phone num ber: 1–800–35– NIOSH (1–800–356–4674)
E-mail: pubstaft@ cdc.gov

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