

FUMIGATION TRAINING MANUAL

Introduction

The most effective way to reach pests in their most remote hiding places is through fumigation, the use of poisonous gases to kill pests in an enclosed area. To be effective, fumigants must reach target pests as gases. Fumigants are "wide-spectrum" pesticides, killing all species of arthropods and rodents that are likely to be found in a building. They are also volatile pesticides whose vapors enter the insect's body through the body wall or breathing system. Fumigants penetrate to many areas of a building not reached by sprays or dusts, even penetrating to the burrows of wood-infesting insects, as well as to the center of tightly packed commodities, such as tobacco in hogheads, bales, cases or grain in large silos or bulking bins. A fumigant gas generally does not leave unsightly, odorous, or hazardous residues.

Fumigation also has certain disadvantages. Highly skilled, experienced, and licensed are required since all fumigants are extremely hazardous to use. The application of fumigants is limited to areas, spaces, items, or commodities that can be tightly enclosed. Fumigated structures must be sealed as air tight as possible and their occupants must leave, sometimes for seven days or longer. Some fumigants may damage items in the area being fumigated. Also, fumigation generally costs more than other pest control procedures, and fumigants leave no protective residue so that is possible immediately after treatment.

Fumigants are Restricted-Use pesticides because of their high acute toxicity, primarily by inhalation. They can act as respiratory poisons, anesthetics or narcotics, or enzyme poisons. Because of their gaseous nature and acute inhalation toxicity, fumigant products are labeled as Toxicity Category I and all fumigants will have warnings such as "Danger... .. Keep Out of Reach of Children Poison," and the skull and symbol. The label contains information on using the product correctly, obtaining practical pest control, storing the product safely, and disposing of the containers and residue of the fumigant correctly. The label also states

antidotes and first-aid treatment, in case a human should be poisoned during a fumigation.

Any use of a fumigant in a manner inconsistent with the label may be in violation of the law. If a person violates the Federal Insecticide, Fungicide, and Act¹ he or she may be subjected to civil penalties as much as \$5,000 for each offense, or criminal penalties as much as \$25,000 or one year in prison, or both. It is unlawful to transfer a fumigant from its original container to another unmarked container.

All fumigants are highly toxic and require trained personnel for application. Anyone handling fumigants should be thoroughly familiar with application procedures, safety equipment, first-aid treatment, and disposal procedures. At least two people should always be present when using fumigants and both should have the proper respiratory equipment for the particular fumigant being used.

The ideal fumigant should not change or impair the treated commodity in any way, nor should it leave any residue which could be hazardous during processing or harmful to the consumer. The EPA has determined the amount of pesticide residue that may safely remain in or on agricultural products as well as processed foods. This is called "tolerance." The EPA has also established exposure limits, which are the levels of fumigant concentration above which it is not safe for people (workers) to be exposed.

The quantity of a fumigant to be applied in sealed buildings, vacuum chambers, rail cars, and to packed commodities under tarpaulins is determined by the volume (cubic feet) of the space. In most cases, no allowances are made for the space occupied by the commodities. In grain silos or bulking bins, the quantity of a fumigant to be applied is calculated per ton or per 1,000 bushels of grain. The dosage rate of fumigants that are applied to the soil for tobacco beds in most cases is based on the size of the bed (such as 9' 100 or 12' 100) or the number of square feet to be fumigated. Of course, the label of each fumigant determines the basis for applying the fumigant.

Fumigation Training Manual

L Darling-Hammond



Fumigation Training Manual:

Adopting the Song of Term: An Emotional Symphony within **Fumigation Training Manual**

In some sort of used by displays and the ceaseless chatter of fast communication, the melodic elegance and psychological symphony created by the written word usually fade into the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. However, set within the pages of **Fumigation Training Manual** a marvelous literary treasure filled with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that fascinating masterpiece conducts visitors on an emotional trip, skillfully unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths with this emotional assessment, we will investigate the book is main harmonies, analyze their enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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