

09-APR-1998

((LABEL))

ALUMINUM PHOSPHIDE

BAGS

FOR CONTROL OF INSECTS IN STORED GRAIN, PROCESSED FOODS,  
FEEDS AND NON-FOOD COMMODITIES, INCLUDING TOBACCO

RESTRICTED

DANGER POISON

KEEP OUT OF REACH OF CHILDREN

GUARANTEE

Aluminum Phosphide 60%

READ THE ENTIRE LABEL AND APPLICATOR'S MANUAL BEFORE USING

REGISTRATION NO: 25319

PEST CONTROL PRODUCTS ACT

Contents: 10 x 34 grams - Net Weight: 340 grams

Manufactured by:  
MIDLAND FUMIGANT CO. INC.  
1805 South 2nd Street  
Leavenworth, Kansas 66048  
(913) 651-3900

Distributed by:  
PESTOP, INC.  
2-11455-201A Street  
Maple Ridge, B.C. V2X 0Y3  
(604) 460-2000

NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use this control product under unsafe

conditions.

NATURE OF RESTRICTION:

This product is for retail sale to and use only by appropriately provincially licensed persons for those uses covered by the applicator's certification or persons trained in accordance with the Applicator's Manual working under the direct supervision and in the physical presence of the certified applicator. Consult local pesticide regulatory authorities about use permits which may be required.

This product must be stored away from lodging for humans, animal quarters and normal work areas to avoid inadvertent exposure.

RESTRICTED USES:

For the treatment of space, grain pests in stored barley, cocoa beans, coffee beans, corn, cotton seeds, dates, dried peas, lentils, millet, nuts in shells, oats, peanuts, popcorn, rice, rye, sorghum, soybeans, sunflower, seeds, triticale, wheat, all processed foods and feeds, Aluminum Phosphide may also be used to fumigate bagged, packaged or treated cereal, grass, sorghum or small legume seeds destined for planting use only. Even gas distribution throughout the commodity is essential for good results. Refer to the Applicator's Manual for detailed Precautions, Recommendations and Directions for Use.

The time of required exposure is as follows:

below 5°C	Do not fumigate
at 5°C - 12°C	10 days are required
at 13°C - 15°C	5 days are required
at 16°C - 20°C	4 days are required
above 20°C	not less than 3 days

To guarantee compliance with tolerances for hydrogen phosphide residues, commodities must be aerated for 48 hours prior to offering them to the end consumer. For tobacco, aeration on hogsheads should be not less than three days; on any other type of storage, two days.

Phosphine gas may be hazardous to birds nesting on or near warehouses. Carefully inspect the outside of the structure prior to application of the fumigant to ensure the absence of nesting birds.

This product is not to be used for vacuum fumigations.

Phosphine will corrode certain metals, especially at high concentrations and humidities. Protection or removal of wiring, sensitive equipment or precious metals is recommended under these conditions.

The use of this product is RESTRICTED due to the acute inhalation toxicity of hydrogen phosphide (phosphine, PH) gas. This product is accompanied by an approved label and Applicator's Manual. READ AND UNDERSTAND THE ENTIRE LABELING. All parts of the labeling are equally important for safe and effective use of this product. Call the manufacturer if you have any questions or do not understand any part of this labeling.

#### PRECAUTIONS:

Forms Extremely Hazardous Vapour. Keep Out of Reach of Children. Do not ingest bag dust. Keep dust and granules out of eyes and away from skin and clothing. Do not eat, drink or smoke while handling Aluminum Phosphide bags.

Exposure to moist air or liquids releases flammable and toxic phosphine (hydrogen phosphide) gas. Spontaneous ignition may result if contacted by liquids such as water, acids, or chemicals.

Wear dry gloves of cotton or other breathable material when handling Aluminum Phosphide. Appropriate respiratory protection must be worn during all following operations: application of the fumigant from within a structure, initiation of aeration and after aeration when testing prior to re-entry, attending to spills and leaks. Fumigated areas must be aerated to 0.3 ppm hydrogen phosphide or less prior to re-entry by unprotected workers.

For hydrogen phosphide levels between 0.3-15 ppm, the minimum protection required is a NIOSH/MSHA approved air-purifying full-face gas mask with a chin style, front-or back-mounted canister approved for phosphine OR any NIOSH/MSHA approved self-contained breathing apparatus with a full facepiece. For hydrogen phosphide levels up to 50 ppm, any NIOSH/MSHA approved supplied-air respirator with a full facepiece and is operated in a positive pressure mode may be worn. In situations where the hydrogen phosphide concentration is unknown, or to escape from conditions which are immediately Dangerous to Life or Health (DLH), a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) with a full facepiece must be worn and operated in a positive pressure mode.

If a beard or long sideburns interfere with the fit of respiratory protection, they must be shaven.

Keep available a NIOSH/MSHA approved SCBA with a positive pressure mode, to be used if it is necessary to re-enter a treated area before aeration is complete, or in situations where the level of phosphine is unknown.

#### DISPOSAL:

Refer to the Disposal instructions of the Applicator's Manual for proper disposal of used Aluminum Phosphide after fumigation is completed. Open dumping is prohibited. Do not discharge this product, or material containing this product, into natural waterways, wetlands (swamps, bogs, marshes, potholes, etc.) or municipal wastewater collection systems. Do not contaminate water, food or feed by disposal. Proper disposal of aluminum phosphide is required to ensure minimal impact on the environment.

#### TOXICOLOGICAL INFORMATION:

Aluminum phosphide dust particles react with moisture from the air, acids and many other liquids to release hydrogen phosphide (phosphine, PH) gas. Mild exposure by inhalation causes malaise (indefinite feeling of sickness), ringing in the ears, fatigue, nausea and pressure in the chest which is relieved by removal to fresh air. Moderate poisoning causes weakness, vomiting, pain just above the stomach, chest pain, diarrhea and dyspnea (difficulty in breathing). Symptoms of severe poisoning may occur within a few hours to several days resulting in pulmonary edema (fluid in lungs) and may lead to dizziness, cyanosis (blue or purple skin colour), unconsciousness, and death.

In sufficient quantity, phosphine affects the liver, kidneys, lungs, nervous system and circulatory system. Inhalation can cause lung edema (fluid in lungs) and hyperaemia (excess of blood in a body part), small perivascular brain hemorrhages and brain edema (fluid in brain). Metal phosphide fumigants are poisonous if swallowed. Ingestion can cause lung and brain symptoms, but damage to the viscera (body cavity organs) is more common. Phosphine poisoning may result in (1) pulmonary edema, (2) liver elevated serum GOT, LDH and alkaline phosphatase, reduced prothrombin, hemorrhage and jaundice (yellow skin colour) and (3) kidney hematuria (blood in urine) and anuria (abnormal or lack of urination). Pathology is characteristic of hypoxia (oxygen deficiency in body tissue). Frequent exposure to concentrations above permissible levels over a period of days or weeks may cause poisoning. Treatment is symptomatic.

FIRST AID:

Symptoms of overexposure are headache, dizziness, nausea, difficult breathing, vomiting, and diarrhea. In all cases of overexposure, get medical attention immediately Take victim to a doctor, emergency treatment facility or poison control centre, bringing the Applicator's Manual.

**If the gas or dust from aluminum phosphide is inhaled:** Get exposed person to fresh air. Keep warm and make sure person can breathe freely. If breathing has stopped, give artificial respiration by mouth-to-mouth or other means of resuscitation. Do not give anything by mouth to an unconscious person.

**If aluminum phosphide bag dust is swallowed:** Drink or administer one or two glasses of water and induce vomiting by touching back of throat with finger, or if available, syrup of ipecac. Do not give anything by mouth if victim is unconscious or not alert.

**If dust or granules from aluminum phosphide get on skin or clothing:** Brush or shake material off clothes and shoes in a well ventilated area. Allow clothes to aerate in a ventilated area prior to laundering. Do not leave contaminated clothing in occupied and/or confined areas such as automobiles, vans, motel rooms, etc. Wash contaminated skin thoroughly with soap and water.

**If dust from pellets gets in eyes:** Flush with plenty of water. Get medical attention.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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