

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM 32  
42518-3  
pg 1 of 3

Jody A. Fox  
Phos-Fume Chemical Company  
12703 W. 117th Street  
Overland Park, KS 66210

MAR 9 1990

Subject: Product Name: Quick-Phos Tablets  
EPA Registration No.: 43568-3  
Your Amendment Dated December 13, 1989

Dear Ms. Fox:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. A stamped copy is enclosed for your records. Five copies of the finished labeling must be submitted before the product is released for shipment.

Each comment below concerns the Environmental Hazards section of the product label.

1. Expand the sentence, "This product is toxic to fish and wildlife" to read, "This product is very highly toxic to fish and wildlife."

2. Add the sentence, "Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes)," to the Environmental Hazards section.

CONCURRENCES							
SYMBOL							
SURNAME	<i>J. Fox</i>						
DATE							

3. Add the sentence, "Do not contaminate water by cleaning of equipment or disposal of wastes," to the Environmental Hazards section.

If you have any questions, you may call Wallace Powell at (703) 557-6938.

Sincerely,



Walter C. Francis  
Acting Product Manager (PM-32)  
Antimicrobial Program Branch  
Registration Division (H-7504C)

Enclosure

**PRECAUTIONARY STATEMENTS  
Hazards to Humans and Domestic Animals  
KEEP OUT OF REACH OF CHILDREN  
DANGER - POISON**

Aluminum phosphide powder, pellets or tablets may be fatal if swallowed. Do not get in eyes, on skin or on clothing. Do not eat, drink or smoke while handling aluminum phosphide fumigants. If a sealed container is opened, or if the material comes in contact with moisture, water or acids, extremely toxic phosphine gas will be released. If a garlic odor is detected, you must monitor to determine whether phosphine gas is present above the acceptable exposure limits (see section on respiratory protection). Since an odor may not be detected under certain circumstances, the absence of a garlic odor does not mean that phosphine gas is absent. Observe proper application, aeration, re-entry and disposal procedures specified elsewhere in the labeling to prevent overexposure.

**NOTE TO PHYSICIAN:** Aluminum phosphide powder, pellets or tablets react with moisture in the air, acids, and many other liquids to release phosphine gas. Mild exposure by inhalation causes malaise, ringing of ears, fatigue, nausea, and pressure in the chest which is relieved by removal to fresh air.

Moderate poisoning causes weakness, vomiting, epigastric pain, chest pain, diarrhea and dyspnea. Severe poisoning may occur in a few hours to several days, resulting in pulmonary edema and may lead to dizziness, cyanosis, unconsciousness and death.

In sufficient quantity, phosphine affects the liver, kidneys, lungs, nervous system and circulatory system. Inhalation can cause lung edema and hypermia, small perivascular brain hemorrhages and brain edema. Ingestion can cause lung and brain symptoms, but damage to the viscera 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 and (3) kidney hematuria and azotemia. Pathology is characteristic of hypoxia. Frequent exposure over a period of days or weeks may cause poisoning. Treatment is symptomatic.

**PHYSICAL/CHEMICAL HAZARDS**

Aluminum phosphide in tablets, pellets, bags or partially spent dust will release phosphine gas if exposed to moisture from the air or if it comes into contact with water, acids and many other liquids. Piling of tablets, pellets, bags or dust from their fragmentation may cause a temperature increase and confine the release of gas so that ignition could occur.

Always open container of aluminum phosphide products outdoors as under certain conditions they may flash upon opening. When opening, point the container away from the face and body and slowly loosen the cap. Although the chances for flash are very remote, never open these containers in a flammable atmosphere. These precautions will also reduce the applicator's exposure to phosphine gas.

Pure phosphine gas is practically insoluble in water and oils and is stable at normal fumigation temperatures. However, it may react with certain metals and cause corrosion, especially at higher temperatures and relative humidities. Metals such as copper, brass and other copper alloys and precious metals such as gold and silver are susceptible to corrosion by phosphine. Thus, small electric motors, smoke detectors, brass sprinkler heads, batteries and battery chargers, fork lifts, temperature monitoring systems, switching gears, communication devices, computers, calculators or other electrical equipment should be protected or removed before fumigation.

Phosphine gas will also react with certain metallic salts and therefore, sensitive items such as photographic film, some inorganic pigments, etc. should not be exposed.

**STORAGE AND HANDLING**

Store in a dry, well ventilated area away from heat, under lock and key. Post as a pesticide storage area. Do not contaminate water, food or feed by storing pesticides in the same areas used to store these commodities. Do not store in buildings inhabited by humans or domestic animals. Aluminum phosphide products shall not be placed in, or attached to packages intended for retailers.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and wildlife. Non-target organisms exposed to phosphine gas will be killed. Do not contaminate water by cleaning of equipment or disposal of wastes. See manual for additional Environmental Hazards.

**RESTRICTED USE PESTICIDE  
DUE TO ACUTE INHALATION TOXICITY OF HIGHLY TOXIC  
PHOSPHINE GAS**

For retail sale to and use only by Certified Applicators for those uses covered by the applicators certification or persons trained in accordance with the attached product manual working under the direct supervision of and in the physical presence of the Certified Applicator on site or on the premises. Read and follow the label and the Quick Phos product manual which contains complete instructions for the safe use of this pesticide.

**QUICK PHOS**  
ACCEPTED  
with Phosphine  
under EPA Letter  
44800  
1990

**ALUMINUM PHOSPHIDE FUMIGANT TABLETS**

A fumigant for use against listed insects which infest listed raw Agriculture Commodities, Specified Processed Foods and Animal Feeds. (See Product Manual)

**ACTIVE INGREDIENT:**

Aluminum Phosphide

**INERT INGREDIENTS**

Total:

Contents: 500 x 3 Grams

Total Net Weight: 3.3 Lbs.

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act 60%  
as amended, for the pesticide 40%  
registered under EPA Reg. No. 100%**

**43568-3**



**KEEP OUT OF REACH OF CHILDREN  
DANGER - PELIGRO - POISON**



**PRECAUCIÓN AL USUARIO:** Se usó no lee inglés, no se este producto hasta que la etiqueta se le haya sido explicado amablemente.

**PRACTICAL TREATMENT STATEMENT**

Symptoms of overexposure to phosphine are headache, dizziness, nausea, difficult breathing, vomiting and diarrhea. In all cases of overexposure get medical attention immediately. Take victim to a doctor or emergency treatment facility.

If the gas from aluminum or magnesium 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 and unconscious person.

If aluminum or magnesium phosphide powder, granules, pellets or tablets are 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 powder, granules or tablets of aluminum or magnesium phosphide get on skin, brush material off clothes and shoes in a well ventilated area. Allow clothes to aerate in a ventilated area prior to laundering. Wash contaminated bare skin thoroughly with soap and water. If in eyes, flush with plenty of water. Get medical attention.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

EPA REG NO. 43568-3

EPA EST NO. 59661 BX 1  
EPA EST NO. 37404 1Y 02  
EPA EST NO. 41876 1Y 1  
EPA EST NO. 43743 BR 01  
EPA EST NO. 48060 C1 04

Manufactured for PHOS FUME CHEMICAL CO

A Subsidiary Company of  
**MIDLAND FUMIGANTS INC**  
1805 South 2nd Street  
Leavenworth, Kansas 66048

**DIRTY**

It is a violation of Federal Law to use this fumigant if a highly hazardous material. Before using, read and follow all precaution Manual for Quick Phos. Applicator Fumigants Inc., 1805 South 2nd Street

**SPILL AND**

A spill other than incidental to application, therefore, attending personnel must wear protective clothing. If the spill is unknown, Other MSDS sheets are available. Do not use water at any time. Unreacted tablets, pellets, or bags will be a toxic and/or fire hazard. Wear cotton clothing. Return all intact cans to cardboard case according to DOT regulations. Notify carrier if cans have been punctured or damaged. aluminum tape or the aluminum phosphide container which should be sealed and placed in an area suitable for pesticide disposal. Material may be obtained, if required from MIDLAND FUMIGANTS INC.

**STORAGE**

**STORAGE:** STORE IN A DRY, WELL VENTILATED AREA AWAY FROM HEAT, UNDER LOCK AND KEY. POST AS A PESTICIDE STORAGE AREA. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORING PESTICIDES IN THE SAME AREAS USED TO STORE THESE COMMODITIES. DO NOT STORE IN BUILDINGS INHABITED BY HUMANS OR DOMESTIC ANIMALS. ALUMINUM PHOSPHIDE PRODUCTS SHALL NOT BE PLACED IN, OR ATTACHED TO, PACKAGES INTENDED FOR RETAILERS.

**DISPOSAL OF UNREACTED TABLETS, PELLETS, OR BAGS:** UNREACTED OR PARTIALLY REACTED TABLETS, PELLETS, OR BAGS OF UNREACTED OR PARTIALLY REACTED ALUMINUM PHOSPHIDE PRODUCTS SHOULD BE DISPOSED OF AS HAZARDOUS WASTE. IF THIS PRODUCT CANNOT BE DISPOSED OF AS HAZARDOUS WASTE, REPRESENTATIVE OF THE STATE OR LOCAL HEALTH DEPARTMENT SHOULD BE CONTACTED FOR DISPOSITION. CONTACT YOUR STATE OR LOCAL HEALTH DEPARTMENT FOR DISPOSITION. CONTACT YOUR STATE OR LOCAL HEALTH DEPARTMENT FOR DISPOSITION. CONTACT YOUR STATE OR LOCAL HEALTH DEPARTMENT FOR DISPOSITION. CONTACT YOUR STATE OR LOCAL HEALTH DEPARTMENT FOR DISPOSITION.

SEE PRODUCT MANUAL

Seller does not make warranties expressed or implied on the label. Customer assumes all risks of use.