ACCEPTED

MAR 1 01981

Under the Pederal Insecticide, Fungicide, and Redenticide Act, as amended, for the posticide registered und r EPA Roy. No. 49566-3

NOTE TO USER:

For technical assistance or additional information contact:

PHOS-FÜME CHEMICAL CO. 11211 James, Ct.

Chaska, MN. 55318 Tel: (612) 448-4505

Phos-Kill

Pellet
EPA Registration No. 43568-1 and

Tablet

RPA Registration No. 43568-3

Application and

Instruction

Booklet

EPA Establishment No. 41876-11-1

Remove and Unfold Use and Directions

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DIRECTIONS - GENERAL

PHOS-KILL is effective in providing economic levels of control of:

Granary Weevil, Rice Weevil, Lesser Grain Borer, Saw-Toothed Grain Beetle, Confused Flour Beetle, Cadelle, Angoumois Grain Moth, Khapra Beetle, Indian Meal Moth, Yellow Meal Worm, Red Flour Beetle, Spider Beetle, Hairy Fungus Beetle, Mediterranean Flour Moth, Dried Fruit Moth, Bean Weevil, Cigarette Beetle and Tobacco Moth.

Its use is suited for the fumigation of bulk stored grain, and certain commodities in space; Box cars and bulk rail cars (static or in-transit) vaults, warehouses, static trailers vans (not tarped grain trailers) and shipping containers. A fumigation consists of placing the peliets and/or tablets in a specified manner once the facility being fumigated has been prepared. Minimum praparation consists of:

- 1. Notifying local authorities (Fire, Police, etc.)
- 2. Sealing area or structure as gas tight as possible.

- Posting of danger signs; w/skull and crossbones, "area under fumigation, do not enter", Date of fumigation, name and address of fumigators, "Do not remove warning signs until fumigated area is safe for entry."
- 4. Being certain first aid information and proper respiratory equipment is at the site.
- 5. Being certain that all adjoining facilities are evacuated.
- 6. Being certain of the recommended application procedure.
- 7. Being certain that operators have been trained and have read and understood labeling.

DIRECTION - SPECIFIC

WEAR GLOVES WHEN HANDLING. ALWAYS OPEN CANS IN OPEN AIR IMMEDIATELY PRIOR TO USE. ALWAYS WORK IN PAIRS, NEVER, ALONE. BUt STORED GRAIN: Add pellets and/or tablets to grain stream as sitos or bins are filled. Filling must be continuous. Determine additions sequence on pellets and/or tablets per-reinate-basis, to insure even distribution throughout. Close bin openings, seal and fost warning signs.

43568-3

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COMMODITIES IN SPACE:

(1) Warehouses and vaults;

Place pellets and/of tablets on floor in systematic manner on sheets of kraft paper. Use total floor space available.

(2) Box Cars, Bulk Rail Cars, Static Trailers Vans, Shipping Container; Place 19 Pellets or 2 Tablets in moisture permeable envelope. Place and tape bags on rigid perforated cardboard with spacing between bags. Tape across the envelope ends only. Place or fix the cardboard, envelope side up, inside the box-car van or shipping container. In the case of bulk rail cars place the cardboard on the flanges of the hatch openings. This may require cutting the cardboard to size. Close, seal and post warning signs on doors and hatch covers.

DOSAGE SCHEDULE

ABOUT DOSAGE: Satisfactory results with PHOS-KILL are dependent upon obtaining a tight seal of the structures to be furnigated. The Dosage Schedule reflects a dosage range. The lower level should only be used in tightly sealed structures. The higher level should be used if sealing has been difficult or if other adverse conditions are present, such as high wind.

PELLET AND TABLET EXPOSURE GUIDE

The release of phosphine from PHOS-KILL is dependent on almospheric temperature and humidity. Plan fumigations accordingly.

NON-FOOD PRODUCTS

Cotton (cloth and improcessed), Peathers, Human Hair, Vulcanized Hair, Moe Hair, Wool, Tobacco, Wood and Bamboo Products.

ANIMAL FEEDS & FEED PRODUCTS:

SUGGESTED DOSAGE SCHEDULE

PELLETS 100 - 200 120 - 200 TABLETS 20 - 40 20 - 40

MINIMUM EXPOSURE REQUIREMENTS

COMMODITY
TEMPERATURE
EXPOSURE PERIOD
Commodity at 54-59°F. (12-15°C.) at least four days
Commodity at 60-68°F. (16-20°C.) at least three days
Commodity at over 68°F. (20°C.) Not less than two days

DO NOT FUMIGATE WHEN COMMODITY TEMPERATURES ARE BELOW 40° F. (5° C.)

NOTE: Aerate all fumigated products for at least 48 nours before offering to consumer. Note specific aeration instruction for tobacco.

TOBACCO TEMPERATURE ABOVE 60° F.

Temperature Above 68° F,

60° - 68° F.

Post Fumigation Aeration:

Dosage: Bags/1000 Cubic Feet 110 - 135 Pellets

or 20 - 30 Tablets Hogsheads Minimum Exposure
4 days

6 days 3 days minimum 2 days minimum

TOBACCO TEMPERATURE 40° - 59° F.

Other

Temperature 40° - 59° F. For Kill of Cigarette Beetle Larvae Dosage:/Per 1000 Cubic Feet

110 - 135 Pellets 20 - 30 Tablets Minimum Exposure See Below

Best results are achieved when tobacco is fumigated at temperatures above 60° F. However where it is not possible to achieve these temperatures fumigation at temperatures in the 40° - 59° F. range have provided satisfactory controls of the cigarette beetle tarvae. Eggs and pupae of the cigarette beetle-may survive a fumigation at these lower temperatures. The appropriate exposure periods for fumigation of tobacco are:

NOTE: Warehouses and containers must be tightly sealed. Post fumigation aeration time is a minimum of 4 days.

NOTE: Áerafe alf fumigated products for at least 48 hours before offering to consumer. Note specific aeration instructions for tubacco.

ACCEPTED

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tree in the section of the section o EPA Reg. No. 7/3576-3

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

DANGER FINDS-KILL releates possioner as when must the not breathe dust or lumbs. Poisonous it swallowed the notified in reyes or on sain the notified in the same poisonous it swallowed to notified in reyes or on sain the notified in the same possion of the notified in the notified in the notified in decomposition may cause a temperature increase and a flash could occur. PHOS-KILL is to be used only by experienced adult personned the notified open container except for short term usage. At WAYS OPEN IN OPEN AIR Store only in cool dry locked venifated from Protect from mosture, openifames or heat Keep available a gas mask and constening proved by the U.S. Department of Interior. Bureau of Mines for PHOS-KILL protection.

SYMPTOMS OF PHOS-KILL POISONING Sensation of cold diarrheal gastric pains, acute indigestion, dizziness, dry cough, loss of appetite intense thirst, vomiting, enlarged pupils choking attacks, reeling

ENVIRONMENTAL HAZARDS. This product is toxic to lish. Keep out of labds, streams and other aquatic environments. Do not contaminate water by cleaning equipment or disposal of wastes. It may react with certain metals such as copper bass, silver, and gold, and cause corrosion especially at high temperatures and humidity. Precautions should be taken to protect materials made from such compounds including some types of copying paper and undeveloped film.

DIRECTIONS FOR USE. It is a violation of Federal law to use this product

STORAGE AND DISPOSAL

O

STORAGE Store in cool, dry, locked ventilated room or building. Protect from moisture, open flames, heat, acids and other chemicals. Never store near humes or living quarters.

DISPOSAL OF EMPTY FLASKS. Flush several times with water, crush and

EFFICACY PHOS-KILL has been found effective against the following stored products, insects and their pre-adult stages-that is eggs, larvae, and pupse Grinary and lice weesits, saw-toothed grain beetle, flat grain beetle, restry grain beetle, lesser grain borer, confused flour beetle, red flour beetle Cadelle, dried fruit moth, Mediterranean flour moth, Indian meal moth amond moth, Angoumois grain moth, European grain moth, bean wees-t, raisin moth pink bollworm, dried fruit beetle, dermestid bertes, and tohacco pests, the cigarette and tohaccomoth Also controls cereal teal beetle ta stored product confaminant), and greater was moth

BARGE U.S. COAST GUARD HEGUI A TION 46 CER 14.7A

Unmanned barges

are fund, the das follows. Fur field raw commodities and animal feeds transplinting. Full Fifth S KILL fallets may be fed into the commodity as the barges.

are being foaded, or may be inserted below the surface of the continodity after loading is completed. For insted commod ties and transported in bulk and for listed processed feed, but PHOS-KILL tablets in less the contained and fastered to a substantial surgols. PHOS-KILL tablets in less the contained and fastered to a substantial surgols. PHOS-KILL tablets in less the contained and stock after the contained and stock and the processed field in the fast of the contained and the processed field and the stock after the contained batters and the fast of the contained batters and the fast of the contained and the fast of the fast of the contained and contained batters are the contained and the fast of the fast of the contained and the fast of the fast of the contained and the contained the fast of the fast of the contained and the fast of the fast of the contained and the fast of the fast of the contained the fast of the fast of the contained the fast of the fast of the contained the contained

Following application of the fumigant sealed and warning placards attached

Prior to unloading of unmanned barges make appropriate tests

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

TABLETS

A Fumigant For Use Against Listed Insects Which Infest Listed Raw Agricultural Commodities, Specified Processed Foods And Animal Feeds

Active Ingredient: Aluminum Phosphide .. 60 0% Inert Ingredients: 40.0% TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN





Upon exposure to atmospheric moisture PHOS-KILL releases hydrogen phosphide (phosphine)

if swallowed: "CALL A PHYSICIAN OR POISON CONTROL CENTER. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to

If inhaled:

an unconscious person Remove victim to open air. Make them lie down and keep them warm. Call a physician immediately.

If in eyes:

Wash affected area with soap and water. Flush thoroughly with water

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured for: PHOS-FUME CHEMICAL COMPANY INC. 1 (27)1 James Ct. Chaska, MN. 55318 EPA HEGISTRATION NO. 43568-3 EPA ESTABLISHMENT NO. 41876 -1Y-1

Contains 590 Tablets - flet Weight 1,500 gr. (3 lbs. 4.8 ozs)

FOR FUMIGATION OF ELB BULK ANIMAL FLED is de Application procedures for on each can

Commodities approved for commodities, processed for products and stored tobacc

RAW AGRICULTURAL CO NAM AGRICULTURAL CO sorghum, millet, nye, pop- or filberts, pecans, pistachio peanuts, sunliower seeds vegetables, adzult, red bears, beans, green split peas, lentbeans, mind beans, pinto be stored in bulk, PHOS-Kit commodity liows into a bin-re the individual tablets For list placed in PHOS-KitL most proceeds as for with process. proceeds as for with proce

"Furnigated \$1000 must be processbones, and the words furnigation, and the name awarning signs until the furnisher."

FOR FUMIGATION OF SEC ANIMAL FEEDS cereal llouis of fractions, whoat bran, point of macaroni, spaghetti, nood, mixes, packaged cereal's pretz cream of wheat, bulgar, brewing wheat shorts, processed co Oned/Processed mea.-fish-chie crackers, shack foods, herbs and dairy Creamers, ossifir mass crackers, shack roods, nerbs in dairy creamers, pasity mis-processed almonds, brazil nuis-nuts, walnuts, dehydrated pota-pears, dined spinach, dried car-prunes, raisins and salamas-relatively gas-tight structures -hocper, cars (static or rolling) -must be placarded during fum-

FOR FUMIGATION OF SPECI ANIMAL FEEDS. These commod structures, under gas-proof terra or rolling). Sealed box and thoo during tumigation as per DOT in musture-per neather envelopes. Envelopes must be fastened to a residue shall be disposed of by small amount of weiling agent has See Tabel instructions. See label instructions

Under no condition shall any po-KILL or with PHOS-KILL resonattached to packages intended to Aerate finished flood two days to

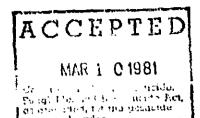
Dosage for creal mills and fee a Furnigation of such areas must to precautions such as scaling or entrances, notifying police and for must be adhered to

Dosage for control of the great other bee keeping equipment in

Exposure time required for all co-quide. Commodity at 54-59° F Commodity at 60-68° F Commodity at 68° F (2)

Do not fumigate when comm

WARRANTY. Seller warrants the description and when use 1 arc conditions of use, it steasonably makes no other warranty, either risk should the product be used.



EPA Reg No. +3526-3 RECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

RELE releases possone of green when must the commes Possone of the Area of the execution of dark or smoke while handling. REEP AWAY FROM ERR as the cause of mandate release of gas. West gloss blets. Paing of lablets or the destification of a decomposition of the increase and a trub could occur. PHOS and only by experienced adult personner. Do not elementation should be approximately for the increase of the short term usage. ALWAYS OFFN IN OPER Are oil, dry, locked sentillated resin. Promet term missition at Keep available again mask angesting approximate approximate.

PHOS-KILL POISONING Sensation of cold diamina a ute indigestion, deziness, dry chaptilioss of appet to miting, entarged pupils, choking attacks reeling

TAL HAZARDS. This product is toxic to tablike feeling that HAZARDS. This product is toxic to tablike feeling and other aquatic environments. Do not contaminate water upment of asposal of wastes, it may react with certain copper, brass, siner, and gold, and cause curies on temperatures and humidey. Precautions should be a materials made from such compacted including some apager and underscoped film.

R USE It is a violation of Federal law to use this product

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FEMPTYFLASKS Flush several times with water, crush and

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GUARD REGULATION 46 CEIL 147A

organisma feeds transported in the feed of the surface of the commodity as the barges are the feed feed for the surface of the commodity and feeds transported in bulk and for listed processed food the ablets must be contained and fastened to a substantial support tubics or their residual dust must not commodity after their residual dust must not commodity and fastened to a substantial support tubics or their residual dust must not commodition and contact with the cold or its packaging. Dosage and expositions of unmanned is identical for that used for its action of unmanned to the function of the functions of the function.

plication of the furnigant this target for arrange for arrange placards attached

ading of unmarmed barges safety of cargo area

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification

> Phos~Kill **TABLETS**

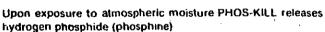
A Fumigant For Use Against Listed Insects Which Infest Listed Raw Agricultural Commodities, Specified Processed Foods And Animal Feeds.

Active Ingredient, Aluminum Phosphide . 60 0% Inert Ingredients40 0% TOTAL 100 0%

KEEP OUT OF REACH OF CHILDREN







If swallowed: "CALL A PHYSICIAN OR POISON CONTROL

CENTER. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to

if inhaled:

an unconscious person? Remove victim to openair. Make them lie down and keep them warm. Call a physician immediately

If on skin:

Wash affected area with soap and water

Flush thoroughly with water -if in eves: SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured for PHOS-FUME CHEMICAL COMPANY INC 1/22/1 James Ct. Chaska, MN 55318

EPA REGISTRATION NO 43568-3 EPA ESTABLISHMENT NO 41876 -1Y-1

*Contents 590 Tablets - Elet Weight 1,500 gr (3 lbs. 4.8 ozs)

USE PATTERN

TOR FUNDS, A HONOROUS CONTEST PARK A LANGUES CHARLES OF MESSAGE AND A PROPERTY OF THE APPLICATION OF A PROPERTY OF A PROPERTY OF A CONTEST OF A PROPERTY OF

Commodities approved for post trainest furnigation of listed raw agricultural commodities processed foods ariumal feeds feed ingredients, non-food products and stored tobacco.

RAW AGRICULTURAL COMMODITIES rice, wheat, burley, corn, dats, sorghum millet rye, popoorn, saybeans coded trans, collee beans (raw) filberts, pedans pistactio nuts, walnuts castiews braze nuts, atmonds, pedanuts, sunflower seeds cotion seed sufflower seeds, seed and pod vegetablies adraw, red beans, blackeys pedas, garbanzo beans, grean split pedas lentils peda tima beans, Michigan navy beans, moth beans, mund beans, pinto beans, split urds), sosteme seed for commodities stored in burk. PHOS-KILL tablots may be fed into the stream as the commodity flows into a bin in a manner to provide a uniformspacing between the inductional tablets for listed commodities not stored in bulk. Tablotts may be placed in PHOS-KILL moisture permeable envelopes and the furnigation proceeds as for with processed foods.

Furnigated areas must be placearded with signs containing at least akult and crossbones, and the words. Are: funder furnigation, do not enter, the date of furnigation, and the name and address of the furnigator. Do not remove warping signs until the furnigated area is completely aerated and safe for

FOR FUMIGATION OF SPECIFIED PROCESSED FOODS PACKAGED ANIMAL FEEDS cereal flours and milled fractions soybean flour and milked fractions, wheat bran, polished frice brewers rice grits, corn grits, flour macaroni, splaghetti noodles, pasta mall (processed grain), bakery mixes packaged cereals, pretzels, oatment, cake flour spices whole wheat cream of wheat burgar brewers mall banely mall wheat germ potato flour wheat shorts, processed coffee feet (reasted-dried) prepared occod Oried Processed meat fish cheese seasoning condiments (ground) cookies, crackers, snack foods herbs dired fruits-eggs sugar-candy bars-candy inhibitory creamers pastry, mines, dired powdered milk, muts, processed processed almonds brazil nuts cashews fliberts peanuts pecans-pistachio nuts, walnuts dehydraten polatos dried apples, dired peaches, dired past, dired spinach dired rairots aprictot keinels primary yeast dates figs, prunes traisins and saltanas. These commodities may be tumigated in relatively gas-fight structures, under gas-proof farpaulins or in sealed box or hooper cars (static or rolling). Sealed box and hooper cars (static or rolling) must be placarded during fumigation as per DOT requirements.

FOR FUMIGATION OF SPECIFIED PROCESSED FOODS, PACKAGED ANIMAL FEEDS These commodities may be lumigated in relatively gas-tight structures, under gas-proof tarpairins or in sealed box or hooper cars (static or rolling). Sealed box and hooper cars (static or rolling) must be placarded during fumigation as per DOT requirements. Ewo tablets may be placed in moiature-permeable envelopes—not more than two tablets per envelope Envelopes must be tastened to a substantial support. After fumigation, tablet residue shall be disposed of by burying or salurating with water to which a small amount of weiting agent has been added. Do not dispose of dust intoilet Sice liabel instructions.

Under no condition shall any processed food come in contact with PHOS-KILL or with PHOS-KILL residue. PHOS-KILL shall not be placed in or attached to packages intended for consumers or cations delivered to relailers. Aerate finished, food two days before it is offered to consumer.

Dosage for cereat milis and feed mills is 20 - 30 tablets per 1000 cubic feet Furnigation of such areas must be conducted by trained lumigators. All safety precautions such as sealing of building padfocking and piacarding of entrances, notifying policie and fire officials, and posting of guards, direquired must be adhered to.

Design for control of the greater was moth is stored because supers and other bee kerping equipment is 30 - 45 tablets per 1600 cubic feet.

Exposure time required for all commodities are approximated in the following guide. Commodity at 54.59 °F, 12-15° °C F - at least four days. Commodity at 64-68° °F (15-20° °C) - at least time days. Commodity at 68° °F (20° °C) - not less that two days.

On not turnigate when comes willy temperature is below 40° F (6° C).

WARRANTY Seller warrants that the product conforms to its commercial description and when itself according to its tabel dilection under normal conditions of use its reasonably latter the purposes stated on the label. Select makes not other warranty either express or implied and Buyer assumes all risk should the product be used contrary to label instructions.