

ACCEPTED

MAR 10 1981

as amended for the pesticide registered under EPA Reg. No. 43568-2

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

DANGER PHOS-KILL releases poisonous gas when moist. Do not breathe dust or fumes. Poisonous if swallowed. Do not get in eyes, on face, or on clothing. Do not eat, drink, or smoke while handling. KEEP AWAY FROM CHILDREN. Do not use near water as this causes immediate release of gas. Wear gloves when handling bags. Piling of bags may cause a temperature increase and a flash could occur. PHOS-KILL is to be used only by experienced adult personnel. ALWAYS OPEN IN OPEN AIR. Store only in cool, dry, well-ventilated room. Protect from moisture, open flames and heat. Keep available a gas-mask and canister approved by the U.S. Department of Interior, Bureau of Mines, for PHOS-KILL protection.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Keep out of lakes, 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, brass, 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.

PHOS-KILL fumigant powder is non-combustible itself, but exposure to moist air or water releases flammable and toxic phosphine gas. Spontaneous ignition may result if the bags are contacted by water, acids, or other chemicals. Do not use bags that have been used or are wet. Do not use bags that have been damaged. Do not wrap, cover or confine bags. Do not let bags contact each other during use. Do not attempt to save bags once removed from the can. Do not tear bags open for any reason during application. Aerate all fumigated products for at least 48 hours before offering to consumers.

SYMPTOMS OF PHOSPHINE POISONING: Sensation of cold, diarrhea, gastric pains, acute indigestion, dizziness, dry cough, loss of appetite, intense thirst, vomiting, enlarged pupils, choking attacks, reeling.

ANTIDOTE - FIRST AID: Any of the above may be taken as symptoms of phosphine poisoning. At first warning take victim to fresh air immediately. Supply pure oxygen and maintain respiration, artificially if necessary, until the doctor arrives. Lay the victim down after removal of any contaminated clothing. Keep warm.

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

EFFICACY: PHOS-KILL has been found effective against the following stored products, insects and their pre-adult stages that is eggs, larvae, and pupae: Granary and rice weevils, saw-toothed grain beetle, flat grain beetle, rusty grain beetle, lesser grain borer, confused flour beetle, red flour beetle, Cadelle dried fruit moth, Mediterranean flour moth, Indian meal moth, almond moth, Angoumois grain moth, European grain moth, bean weevil, raisin moth, pink bollworm, dried fruit beetle, dermestid beetles, and tobacco pests, the cigarette and tobacco moth. Also controls cereal leaf beetle (a stored product contaminant), and greater wax moth.

STORAGE AND DISPOSAL

Store only in cool, dry, locked & ventilated room. Protect from moisture, open flame or heat. IMPORTANT: The release of phosphine from PHOS-KILL is dependent on atmospheric temperature and humidity. Be certain minimum temperature requirements have been met before attempting disposal.

METHOD ONE: Use only if minimum exposure requirements for existing conditions are known and met. Collect bags and arrange for their direct transportation to an approved burial site or to an approved pesticide incinerator for burning.

METHOD TWO: For use when minimum exposure requirements for existing conditions have not been met, or exposure details are unknown or if disposing of fresh bags becomes necessary.

Collect bags and transport them to an isolated, open area. Wear a full faced gas mask fitted with a canister for protection against phosphine. Cut or tear open each bag and dump the contents into a receptacle (bucket, barrel, etc.) containing a mixture of water and a non-ionic surfactant (2% by volume). Stir until all dust has settled. Transport the resulting slurry to an approved site for burial.

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 BAGS

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



DANGER - POISON



Statement of Practical Treatment

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 an unconscious person.

If inhaled: Remove victim to open air. Make them lie down and keep them warm. Call a physician immediately.

If on skin: Wash affected area with soap and water.

If in eyes: Flush thoroughly with water.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured for: PHOS-FUME CHEMICAL COMPANY INC.
112211 James Ct. Chaska, MN. 55318
EPA REGISTRATION NO. 43568-2
EPA ESTABLISHMENT NO. 41876-1Y

Table with 3 columns: CONTENTS, NET WT EACH, TOTAL NET WT. Includes 15 Active Bags (Large Size) and 1 Inert Degassing Bag.

41A

USE FOR FUMIGATION OF LISTED RAW AGRICULTURAL COMMODITIES AND BULK ANIMAL FEED

Commodities approved for post-harvest fumigation include: commodities, processed foods, and products and stored tobacco.

RAW AGRICULTURAL COMMODITIES: sorghum, millet, rye, popcorn, soybeans, fibers, pecans, pistachio nuts, peanuts, sunflower seeds, cotton, vegetables (adzuki, red beans, black beans, green split peas, lentils, peas, beans, mung beans, pinto beans, etc.) stored in bulk, PHOS-KILL bags may be placed in a bin in a manner to provide fumigation.

Dosage for commodities other than dates, nuts, and dried fruits: 1000 bushels. Dosage for dates, nuts, and dried fruits: 6 bags per 1000 cubic feet of storage. Effectiveness of the fumigation is dependent on warehouse, commodity temperature, and fumigation time.

FOR FUMIGATION OF SPECIFIED ANIMAL FEEDS: cereal flours and mill fractions, wheat bran, polished rice, macaroni, spaghetti, noodles, pasta, mixes, packaged cereals, pretzels, cream of wheat, bulgur, brewers malt, wheat shorts, processed coffee, dried/processed meat-fish-chicken, crackers, snack foods, herbs, dried fruit, dairy creamers, pastry mixes, dried processed almonds, brazil nuts, cashews, walnuts, dehydrated potato products, dried spinach, dried carrots, apricots, raisins and saltanas. These are relatively gas-tight structures, under hoop stress (static or rolling). Sealed must be placed during fumigation and fastened to a substantial support. After fumigation, aerate by turning or saturating with water. Do not dispose of until instructions.

Dosage for specified processed commodities: 6 bags per 1000 cubic feet of storage.

BARGE FUMIGATION U.S. COAST GUARD REGULATIONS

Unmanned barges: PHOS-KILL fumigant must be placed in the commodity as the barge is inserted below the surface of the commodity. PHOS-KILL bags must be contained in PHOS-KILL bags or their residual dust must be contained in PHOS-KILL bags. PHOS-KILL bags must be identical to fumigated in land based structures. Following application of the fumigant, sealed and warning placards attached. Prior to unloading of unmanned barges, to ascertain safety of cargo area.

SEE LIST OF PROCESSED FOODS WHICH condition shall any processed food contain PHOS-KILL residue. PHOS-KILL residue packages intended for consumers or finished food two days before it is offered.

Dosage for cereal mills and feed mills: Fumigation of such areas must be conducted with precautions such as sealing of bulk entrances, notifying police and fire officials, and must be adhered to.

Fumigated areas must be placarded with crossbones and the words, "area under fumigation, and the name and address, warning signs until the fumigated area is empty."

Dosage for stored tobacco is 3 to 6 bags for hogheads will not be less than three days. Dosage for control of the greater and other bee keeping equipments is 6 bags.

Exposure time required for all commodities: Commodity at 54-59° F (12-15° C) 16-20 days; Commodity at 60-65° F (16-17° C) 12-15 days; Commodity at 66° F (20° C) 10-12 days.

Do not fumigate when commodity temperature is above 65° F. WARRANTY: Seller warrants that the product is as described and when used according to conditions of use, it is reasonably fit for the purpose intended. It makes no other warranty, either expressed or implied, and the product should be used contrary to the conditions of use.

43568-2

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 43568-2

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

PHOS-KILL releases poisonous gas when moist. Do not breathe poisonous if swallowed. Do not get in eyes or on skin. Do not smoke while handling. KEEP AWAY FROM LIQUID OR causes immediate release of gas. Wear gloves when Piling of bags may cause a temperature increase and a PHOS-KILL is to be used only by experienced adult. ALWAYS OPEN IN OPEN AIR. Store only in cool dry, locked. Protect from moisture, open flames and heat. Keep mask and canister approved by the U.S. Department of Mines, for PHOS-KILL protection.

ENVIRONMENTAL HAZARDS. This product is toxic to fish. Keep out of and other aquatic environments. Do not contaminate equipment or disposal of wastes. It may react with such as copper, brass, silver, and gold and cause corrosion at high temperatures and humidity. Precautions should be taken for materials made from such compounds including some paper and undeveloped film.

PHOS-KILL powder is non-combustible itself, but exposure to water releases flammable and toxic phosphine gas. Ignition may result if the bags are contacted by water, chemicals. Do not use bags that have been used or are wet that have been damaged. Do not wrap, cover or confine bags contact each other during use! Do not attempt to removed from the can. Do not tear bags open for any application. Aerate all fumigated products for at least 48 hours before offering to consumers.

PHOSPHINE POISONING. Sensation of cold, diarrhea, acute indigestion, dizziness, dry cough, loss of appetite, vomiting, enlarged pupils, choking attacks, reeling.

FIRST AID. Any of the above may be taken as symptoms of poisoning. At first warning take victim to fresh air immediately. Oxygen and maintain respiration, artificially if necessary, until he arrives. Lay the victim down after removal of any clothing. Keep warm.

USE. It is a violation of Federal law to use this product without its labeling.

PHOS-KILL has been found effective against the following stored and their pre-adult stages that is eggs, larvae, and pupae: weevils, saw-toothed grain beetle, flat grain beetle, rusty grain borer, confused flour beetle, red flour beetle, Cadelle Mediterranean flour moth, Indian meal moth, almond moth, European grain moth, bean weevil, raisin moth, pink fruit beetle, dermestid beetles and tobacco pests, the greater wax moth.

STORAGE AND DISPOSAL

Store in a cool, dry, locked & ventilated room. Protect from moisture. IMPORTANT: The release of phosphine from PHOS-KILL is dependent on atmospheric temperature and humidity. Be certain that certain requirements have been met before attempting fumigation.

Use only if minimum exposure requirements for existing fumigation are known and met. Arrange for their direct transportation to an approved or approved pesticide incinerator for burning.

For use when minimum exposure requirements for fumigation have not been met, exposure details are unknown, or if fresh bags becomes necessary.

Transport them to an isolated, open area. Wear a full mask fitted with a canister for protection against phosphine. Cut open bag and dump the contents into a receptacle (bucket) containing a mixture of water and a non-ionic surfactant (2% until all dust has settled). Transport the resulting slurry to a safe disposal site.

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

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Statement of Practical Treatment

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 an unconscious person.

If inhaled: Remove victim to open air. Make them lie down and keep them warm. Call a physician immediately.

If on skin: Wash affected area with soap and water.

If in eyes: Flush thoroughly with water.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured for PHOS FUME CHEMICAL COMPANY INC 112211 James Ct Chaska, MN. 55318 EPA REGISTRATION NO. 43568-2 EPA ESTABLISHMENT NO. 41876 -1Y-1

Table with 3 columns: CONTENTS, NET WT EACH, TOTAL NET WT. Row 1: 15 Active Bags (Long-Term), 34 grams, 510 grams (18.0 oz). Row 2: 3 Inactive (Degassing) Bags, 30 grams, 90 grams.

41A

USE PATTERN

FOR FUMIGATION OF LISTED RAW AGRICULTURAL COMMODITIES BULK ANIMAL FEED

Commodities approved for post harvest fumigation of listed raw agricultural commodities, processed foods, animal feeds, feed ingredients, non food products and stored tobacco.

RAW AGRICULTURAL COMMODITIES: rice, wheat, barley, corn, oats, sorghum, millet, rye, popcorn, soybeans, cocoa beans, coffee beans (raw), fliberts, pecans, pistachio nuts, walnuts, cashews, brazil nuts, almonds, peanuts, sunflower seeds, cotton seed, safflower seeds, seed and pod vegetables (adzuki, red beans, blackeye peas, garbanzo beans, great northern beans, green split peas, lentils, peas, lima beans, Michigan navy beans, moth beans, mung beans, pinto beans, split urds), sesame seeds. For commodities stored in bulk, PHOS-KILL bags may be fed into the stream as the commodity flows into a bin in a manner to provide uniform spacing between the individual bags.

Dosage for commodities other than dates, nuts and peanuts is 3 to 6 bags per 1000 bushels. Dosage for dates, nuts, and peanuts in bags or storage boxes is 3 to 6 bags per 1000 cubic feet of storage space. For peanuts in bulk, use tablets. Effectiveness of the fumigation is dependent on the tightness of the bin or warehouse, commodity temperature, and length of exposure period.

FOR FUMIGATION OF SPECIFIED PROCESSED FOODS, PACKAGED ANIMAL FEEDS: cereal flours and milled fractions, soybean flour and milled fractions, wheat bran, polished rice, brewers rice grits, corn grits, flour, macaroni, spaghetti, noodles, pasta, malt (processed grain), bakery mixes, packaged cereals, pretzels, oatmeal, cake flour, spices, whole wheat, cream of wheat, bulgar, brewers malt, barley malt, wheat germ, potato flour, wheat shorts, processed coffee/tea (roasted-dried), prepared cocoa, Dried/Processed meat-fish-cheese, seasoning, condiments (ground) cookies, crackers, snack foods, herbs, dried fruits-eggs, sugar-candy bars-candy, non-dairy creamers, pastry mixes, dried powdered milk, nuts (processed), processed almonds, brazil nuts, cashews, fliberts, peanuts, pecans, pistachio nuts, walnuts, dehydrated potato products, dried apples, dried peaches, dried pears, dried spinach, dried carrots, apricot kernels, primary yeast, dates, figs, prunes, raisins and saltanas. These commodities may be fumigated in relatively gas-tight structures, under gas-proof tarpaulins, 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. Bags must be fastened to a substantial support. After fumigation bags shall be disposed of by burying or saturating with water to which a small amount of wetting agent has been added. Do not dispose of dust in toilet. Dispose of as per label instructions.

Dosage for specified processed foods and packaged animal feeds is 3 to 6 bags per 1000 cubic feet of storage space.

BARGE FUMIGATION REGULATIONS REGULATED BY U.S. COAST GUARD REGULATION 46 CFR 147A

Unmanned barges are fumigated as follows. For listed raw commodities and animal feeds transported in bulk, PHOS-KILL bags may be fed into the commodity as the barge is being loaded, or may be inserted below the surface of the commodity after loading is completed. For listed commodities not transported in bulk and for listed processed food, the PHOS-KILL bags must be contained and fastened to a substantial support. PHOS-KILL bags of the residual dust must not come into contact with the processed food or its packaging. Dosage and exposure time on unmanned barges is identical to that used for the same commodities fumigated in land based structures or storage areas. Following application of the fumigant, the barge must be sealed and warning placards attached. Prior to unloading of unmanned barges, make appropriate tests to ascertain safety of cargo area.

SEE LIST OF PROCESSED FOODS WHICH MAY BE FUMIGATED. 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 cartons delivered to retailers. Aerate finished food two days before it is offered to consumer.

Dosage for cereal mills and feed mills is 3 to 6 bags per 1000 cubic feet. Fumigation of such areas must be conducted by trained fumigators. All safety precautions such as sealing of building, padlocking and placarding of entrances, notifying police and fire officials and posting of guards, if required, must be adhered to.

Fumigated areas must be placarded with signs containing at least skull and crossbones, and the words, "Area under fumigation, do not enter, the date of fumigation, and the name and address of the fumigator". DO NOT remove warning signs until the fumigated area is completely aerated and safe for entry.

Dosage for stored tobacco is 3 to 6 bags per 1000 cubic feet. Aeration time for hogsheds will not be less than three days for all other containers, two days. Dosage for control of the greater wax moth is stored beehives, supers and other bee keeping equipments is 6 bags per 1000 cubic feet.

Exposure time required for all commodities are approximated in the following guide: Commodity at 54-59° F (12-15° C) - at least four days; Commodity at 50-68° F (16-20° C) - at least three days; Commodity at 68° F (20° C) - not less than two days.

Do not fumigate when commodity temperature is below 40° F (5° C).

WARRANTY. Seller warrants that the product conforms to its commercial description and when used according to label direction under normal conditions of use, it is reasonably fit for the purpose stated on the label. Seller makes no other warranty, either express or implied, and Buyer assumes all risk should the product be used contrary to label instructions.

43568-2

41