

NOV 27 1990

8384512

Ms. Judith A. Thompson
HACO, Inc.
P.O. Box 7190
Madison, WI 53707

Dear Ms. Thompson:

Subject: -- Zinc Phosphide Pellets
EPA Registration No. 2393-521
Your Letter Dated October 2, 1990

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comment listed below.

- Delete the commas between "broadcast" and "by" in "BROADCAST RAISING" directions for "MACADAMIA NUT ORCHARDS" (second sentence) and "ORCHARDS & GROVES" (first sentence).

Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

BEST AVAILABLE COPY

MAM

Marilyn A. Nautz
Acting Product Manager (16,
Insecticide-Rodenticide Branch
Registration Division (N7505C)

Enclosures

61873:I:Palmtree:L16-16:KEMCO:11/14/90:01/14/91:de:VO:EK:CL

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

2/19

RESTRICTED USE PESTICIDE (18 pt.)
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.

HOPKINS
ZINC PHOSPHIDE PELLETS

For spot treatment in and around buildings, around burrows in orchards, vineyards and sugarcane fields and on rangelands and noncrop areas. For Broadcasting by ground spreader or aircraft in orchards, sugarcane fields and or noncrop areas. For Broadcasting by ground spreader in vineyards.

ACTIVE INGREDIENT:

Zinc Phosphide	2.0%
INERT INGREDIENTS:	98.0%
Total	100.0%

EPA Reg. No. 2393-521

KEEP OUT OF REACH OF CHILDREN (12 pt.)
CAUTION (18 pt.)

See side panels for additional precautionary statements and directions for use.

STATEMENT OF PRACTICAL TREATMENT

Any persons applying zinc phosphide products and experiencing signs and symptoms such as nausea, abdominal pain, tightness in the chest, or weakness, should be seen by a physician immediately.

If swallowed, drink 1-2 glasses of water and induce vomiting by touching the back of the throat with the finger. Avoid the use of all oils. Have person lie down and keep warm. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin or eyes, flush with plenty of water.

MANUFACTURED FOR
HACO, Inc.
P.O. BOX 7190
MADISON, WI 53707

ACCEPTED
with COMMENTS
in EPA Letter Dated:

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended for the pesticide
registered under EPA Reg. No.
2393-521

Sept. 14, 1990

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Keep away from humans domestic animals and pets. May be fatal or harmful if swallowed. Avoid skin contact. Wear rubber gloves when handling this product. Do not breathe dust. Avoid contamination of feed or foodstuffs. Avoid contact with acids. Store in a dry place. Do not store around the home. Wash all utensils, spoons, or measuring devices thoroughly after using.

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife and fish. Birds and other wildlife feeding on treated pellets may be killed. Do not apply to open ground, roads and areas in which no vegetation occurs. Pick up and properly dispose of all spilled toxic pellets. Keep out of lakes, streams, ponds and all aquatic systems. Do not apply where runoff from this product will enter an aquatic system. Do not contaminate water when disposing of equipment washwaters. Check for and dispose of excess or spoiled pellets and carcasses daily until the pellets are expended or are removed.

ENDANGERED SPECIES CONSIDERATIONS:

Whooping Crane (Grus americana)

Do not use this product 30 days prior to arrival and 30 days after the whooping crane leaves known crane habitat.

Attwater's greater prairie chicken (Tympanuchus cupido attwateri)

Do not use this product in the presently occupied range of the Attwater greater prairie chicken in the following Texas counties: Arkansas, Austin, Brazoria, Colorado, DeWitt, Fort Bend, Galveston, Goliad, Harris, Regugio, Victoria, Waller, and Wharton.

Yellow-shouldered Black bird (Agelaius xanthomus) and Puerto Rican Plain Pigeon (Columba inornata wetmorei)

This product must not be used in the following areas except in tamper-proof bait boxes (within 10 kilometers of Central Aquirre, Lago Cidra, Ceiba, San German: 15 kilometers of La Esperanza: south of Highway 2 from city of Mayaguez to the city of Ponce and all of Mona Island, Puerto Rico.

Utah prairie dog (Cynomys parvidens)

Do not use this product in the range of the Utah prairie dog. (Utah).

Salt-marsh harvest mouse (Reithrodontomys raviventris)

Do not use this product within 1/2 mile of salt marsh vegetation and/or brackish water wetlands which are located 1) near or adjacent to San Pablo Bay and San Francisco Bay or 2) in the Sacramento River below or adjacent to the confluence of the Sacramento River and the San Joaquin River. (California)

Morro Bay Kangaroo Rat (Dipodomys heermanni morroensis)

Do not use this product within 2 1/2 miles of Baywood Park which is located on Morro Bay. (California)

Aleutian Canada goose (Branta canadensis leucoparia)

Do not use this product from October to March in the Federally closed goose hunting areas in the state of California. See current Duck and Goose Hunting game laws for current map.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Keep dry. Protect from direct contact with water or excessive moisture. Store in a well ventilated area not accessible to children, pets, domestic animals or wildlife. Keep away from heat and open flame. Once opened, do not store bag for prolonged period. In case of puncture, use overslip bag and securely close.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until dusts have settled. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Written or oral precautions must be given to workers engaged in agricultural hand labor who are expected to be in a treated area or in an area about to be treated with this product. Written or oral precautions must include the following information:

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CAUTION; area treated with zinc phosphide on (date of application). Do not enter treated area the day of application without protective clothing and gloves. Protective clothing at a minimum should include clean long pants, long sleeved shirt, shoes and socks. For accidental exposure, see Statement of Practical Treatments.

Oral precautions must be given if there is reason to believe that written precautions cannot be understood by workers. When oral precautions are given, precautions shall be given in a language customarily understood by workers.

LIMITATIONS

The Following Limitations apply to the Agricultural Areas Listed on this label: Pellets must not be applied on roads, near residential areas, or over water. Do not broadcast over growing crops other than sugarcane. Apply pellets on warm, clear days. Do not graze animals in treated areas.

GRAPE VINEYARDS

USE RESTRICTIONS: For control of meadow, prairie and pine voles (Microtus spp.), white-footed mice (Peromyscus spp.), meadow jumping mice (Zapus spp.). Do not broadcast bait pellets over growing crops when the pellets may lodge on the plant. Do not apply to bare ground.

BROADCAST BAITING: Broadcast pellets evenly on the ground between the rows by cyclone seeder or by hand (wear rubber gloves during hand broadcast operation). Apply pellets at a rate of 6-10 pounds per acre. Do not apply by air.

MACADEMIA NUT ORCHARDS

USE RESTRICTIONS: For control of Roof rats (R. rattus). Uneaten pellets must be removed from trees and ground prior to shaker harvest or mechanized harvest. Orchards may be treated up to 30 days prior to harvesting. Do not broadcast bait pellets over growing crops when the pellets may lodge on the plant. Do not apply to bare ground.

BROADCAST BAITING: Broadcast at the rate of five (5) pounds of pellets per acre. This product may be broadcast, by aircraft, cyclone seeder, or by hand. When applying by hand (wear rubber gloves during hand broadcast operations), throw tablespoon amounts into heavy cover along tree rows, rock outcrops, and fence lines. Do not apply more than five (5) pounds of pellets per acre per treatment. The total application shall not exceed 20 pounds of pellets per acre per year.

HAND BAITING: Place 1-2 teaspoons of pellets in bait stations at the base of each tree or in suitable forks in each tree (in bait stations only).

NURSERY STOCK-ORNAMENTAL AND NON-BEARING FRUIT TREES

USE RESTRICTIONS: For control of meadow, prairie and pine voles (Microtus spp.) in ornamental and non-bearing nursery stock.

BROADCAST BAITING: Under infested nursery stock and/or non-bearing fruit trees broadcast evenly by cyclone seeder or by hand. Concentrate in areas with the heaviest vegetation cover. Do not broadcast bait on bare ground. Apply at a rate of 6-10 pounds per acre.

HAND BAITING: Near the base of infested stock, place teaspoonful quantities of pellets in 2-4 locations, either on surface trails or at the mouths of holes leading to underground burrow systems. Do not allow pellets to be exposed on bare ground. Do not disturb the runway system. Bait at a rate of 2-3 pounds per acre of infested stock.

ORCHARDS & GROVES

USE RESTRICTIONS: For control of meadow, prairie and pine voles (Microtus spp.) in orchards and groves. This product is to be applied during the dormant season. Apply pellets after harvest while the orchard or grove is in a non-bearing phase. Do not apply to bare ground.

SPOT OR TRAIL BAITING: Place 1 teaspoon of pellets in surface trails or at the mouths of holes leading to underground burrow systems. Two to four bait spots should be made near the base of each infested tree. Do not disturb the runway system, and cover pellets by pulling overhanging grass back in place. Use 2 to 3 lbs. pellets per acre.

BAIT PLACEMENT STATION: Place 2.5 ounces under at least two established stations per tree. These stations should be established 2-3 months prior to the baiting period by placing rectangular (at least 15" X 15") asphalt shingles of fiberboard rays or wood or metal at the tree dripline.

BROADCAST BAITING: This product may be broadcast, by aircraft, cyclone seeder, or by hand. When applying by hand (wear rubber gloves during hand broadcast operations), throw tablespoon amounts into heavy cover along tree rows, rock outcrops, and fence lines. Pellets should be applied at the rate of 6 to 10 pounds per acre.

RANGELAND

USE RESTRICTIONS: For control of prairie dogs, black-tailed (Cynomys ludovicianus), white-tailed (C. leucurus), and Gunnison's (C. gunnisoni) on rangeland in Western United States: (Arizona, Colorado, Kansas, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Utah and Wyoming).

PREBAITING: To increase acceptance of treated pellets by prairie dogs, prebait with one teaspoon of untreated wheat per mound, one or two days prior to using toxic pellets. Establish observation period during prebaiting.

BAITING: After all or most of the prebait has been eaten, apply pellets only to areas where prebait was consumed. Apply pellets by hand as a six-inch bait spot on edge of each mound or in

adjacent feeding area. Apply at the rate of one teaspoon per bait spot, during late summer or fall (July-December). Do not apply more than once during this period. Dispose of spilled or unwanted pellets by burial.

COLUMBIAN AND RICHARDSON'S GROUND SQUIRREL

USE RESTRICTIONS: For control of Columbian (Spermophilus columbianus) and Richardson's (S. richardsonii) ground squirrels, on rangeland.

BAITING: Apply pellets by hand as a six-inch bait spot on edge of each mound or in adjacent feeding area. Apply at the rate of one teaspoon per bait spot,

SUGARCANE

USE RESTRICTIONS: For control of Polynesian (Rattus exulans), Norway (R. norvegicus), Rice (Oryzomys palustris), Florida water (Neofiber alleni), cotton (Sigmodon hispidus), and Roof rats (R. rattus) in sugarcane fields. Do not apply within 30 days of harvest. Do not apply to adjacent noncrop areas. The total number of applications must not exceed four per crop period, and the total amount of pellets applied shall not exceed 20 pounds per acre.

PREBAITING: To increase acceptance of treated pellets by rats, broadcast three pounds of untreated wheat per acre one or two weeks prior to using toxic pellets.

BROADCAST BAITING: Apply five pounds of pellets per acre per treatment. Bait may be broadcast by aircraft, by ground-driven equipment, or by hand (wear rubber gloves during hand broadcast applications).

GOPHERS

USE RESTRICTIONS: For control of the Plains pocket gophers (Geomys bursarius), Southeastern pocket gophers (G. pinetis), yellow-faced pocket gophers (Pappageomys castanops), and Thomomys spp. pocket gophers in lawns, golf courses, and other noncrop areas.

HAND BAITING: To locate underground runways, use a metal rod, a strong smooth stick, or other suitable implement to probe the ground 10 to 15 inches away from fan-shaped gopher mounds. Begin probing on the flat side of the fan. When the main runway has been entered, the probe will drop about 2 inches due to decreased resistance from soil. Using a long-handled spoon or mechanical probe, drop one teaspoon of bait into the main runway at each baited point. Cover the opening with sod, a rock, or soil to exclude light. Take care not to cover bait with soil. Depending upon mound density, make two to five bait placements per burrow system. Recover and bury all spilled pellets.

KANGAROO RATS

USE RESTRICTIONS: For control of the Ord's kangaroo rat (Dipodomys ordii), banner-tailed kangaroo rat (D. spectabilis)

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and Merriam's kangaroo rat (D. merriami) in rangeland vegetation and noncrop areas.

HAND BAITING: Place one tablespoon (12 grams) of pellets at 2 locations on opposite sides of mounds. Attempt to place pellets in feeding runs near the entrance to burrows.

NONCROP RIGHTS-OF-WAY

USE RESTRICTIONS: For control of California ground squirrels (Spermophilus beecheyi) on noncrop rights-of-way next to canal and ditch banks and other noncrop borders during late spring and summer. Do Not apply on roads, near residential areas, over water, or where plants are grown for food or feed. Consult local, state and federal game authorities before use to insure this product is used in accordance with regulations.

PREBAITING: To increase acceptance of pellets by squirrels, broadcast six pounds of untreated wheat per acre along rights-of-way 2-3 days prior to using toxic pellets.

BAITING: Broadcast pellets in a 10-15 foot swath along rights-of-way, using hand or ground-driven dispensing devices. Do Not exceed six pounds per acre. Do not treat any area more than once per year. When applying next to canals, apply only to the canal right-of-way between the base of the levee and adjacent properties. Do not treat the canal and levee. Dispose of excess pellets from application equipment by burial.

HAND BAITING IN NONCROP AREAS

Such as Lawns, Ornamentals, Golf Courses

Parks and Nurseries

USE RESTRICTIONS: For control of meadow, prairie and pine voles (Microtus spp.), Thirteen-lined ground squirrels (Spermophilus tridecemlineatus), California ground squirrels (S. beecheyi), Columbian ground squirrels (S. columbianus) and Richardson's ground squirrels (S. richardsonii). Do Not apply on roads, over water or where plants are grown for food or feed.

PREBAITING: To increase acceptance of treated pellets by squirrels, prebait with one teaspoon of untreated wheat around each active burrow 2-3 days prior to using toxic pellets.

HAND BAITING: Apply one teaspoon of pellets around each active burrow or runway. Allow pellets to fall through grass to ground surface but do not apply to bare ground. Do not place pellets in piles.

IN AND AROUND BUILDINGS

USE RESTRICTIONS: Use against the Norway rat, roof rat and the house mouse, in and around homes, industrial, agricultural and commercial buildings, and similar manmade structures. This product must be placed in locations not accessible to children, pets, domestic animals and wildlife, or in tamperproof bait boxes. Do not place this product in areas where there is a possibility of contaminating food or surfaces that come in direct contact with food.

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