

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

56228-2

DATE OF ISSUANCE

APR 1 - 1996

TERM OF ISSUANCE

Unconditional

NAME OF PESTICIDE PRODUCT

Gas Cartridge

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

USDA
Animal Plant & Health Inspection Service
Animal Damage Control
Federal Bldg. Room 533
6505 Belcrest Road
Hyattsville, MD 20782

675 5-494 005

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675 5-503144

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NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. Enclosed is a copy of your label stamped "Accepted". This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

The Agency has determined that the Confidential Statement of Formula (CSF), dated August 21, 1995, which was submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable, subject to the following provision.

Within one year after commencing commercial production of your revised formula, please analyze your product for the percentages of active ingredients. If the certified limits do change, submit the analytical data and a revised CSF. If the limits do not change, send us a letter to that effect. The reason for this requirement is to insure that we capture, as part of the product registration, any reduction in formula variability achieved from commercial production.

A copy of the CSF has been placed in our file for this product. All previous versions are obsolete.

ATTACHMENT IS AVAILABLE

SIGNATURE OF APPROVING OFFICIAL

Based upon our recent conversation between Steve Palmateer of your staff and Dan Peacock of my staff, you wish to have three labels for this product: A) Container Label, B) Endangered Species Consideration Insert, and C) Cartridge Label.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you make the following changes and submit one (1) copy to us before your ship product:

A. Container Label

1. Revise your "ENVIRONMENTAL HAZARDS" section as follows:

ENVIRONMENTAL HAZARDS

This product is highly toxic to wildlife. Check all burrows for signs of nontarget species. If present, do not treat burrows.

ENDANGERED SPECIES CONSIDERATIONS

I. General Considerations

NOTICE: It is a Federal offense to use any pesticide in a manner that results in the death of a member of an endangered species.

The killing of a member of an endangered species due to use of gas cartridges may result in a fine and/or imprisonment under the Endangered Species Act. All users of this product must determine whether endangered species are known to occur or might occur in the intended use areas.

Consult the nearest U.S. Fish and Wildlife Service regional office or the appropriate State agency for current information on habitats occupied by endangered species.

Use this product according to the enclosed "Endangered Species Considerations Insert" to protect endangered species.

2. To avoid breaking up your use directions, place your "STORAGE AND DISPOSAL" text after DIRECTIONS FOR USE.

B. "Endangered Species Considerations Insert" Label

- 1. Put the following heading on this insert:

Endangered Species Considerations Insert
 (Gas Cartridge, EPA Reg. No. 56228-2)

Use this product according to this Insert to protect endangered species.

- 2. Revise your text of the Insert as follows:

Black-footed ferret (Mustela nigripes).

To limit risks to the black-footed ferret and to avoid ... ferret reintroductions.

Fresno Kangaroo rat ... southern Utah.

Use of this product within the occupied habitats of the organisms listed above is limited to ... extension offices. [Delete "These limitations ... habitats of"]

Hualpi Mexican vole ... San Nicolas Islands, California.

Do not use this product within the occupied habitats of the above endangered animals.

Blunt-nosed leopard lizard ... Rivers in Alabama.

- 3. If applicable, incorporate the following text at the appropriate location:

RED WOLF (insert scientific name)

GRAY WOLF (insert scientific name)

SAN JOAQUIN KIT FOX (insert scientific name)

Unless authorized by the U.S. Fish and Wildlife Service, DO NOT use in areas where the above Endangered Species may have dens.

[Note that there would be two entries for the San Joaquin Kit Fox. Please combine the entries and correct any inconsistencies.]

C. Cartridge Label

1. On the "Left Panel", change the last sentence to:

(See Carton Label and Endangered Species Considerations Insert.)

2. On the "Right Panel", change "sheet label" to:

Carton Label and Endangered Species Considerations Insert.

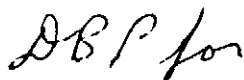
D. General Labeling Comments

1. The above changes attempt to organize the text in the clearest, more consistent way. For example, we restructured the text so that each section of the specific endangered species considerations always began with the common name, followed by the scientific name, text, and horizontal line to separate individual sections. In addition, we separated the "General" and "Specific" "ENDANGERED SPECIES CONSIDERATIONS". Finally, we modified the "General Considerations" to emphasize the need to apply baits appropriately.
2. Try to structure your label so that all your precautionary statements (except the Insert) appear on one page of your label and all your use directions appear on a second page of your label, assuming that you use a two page label.
3. Note that your "Ingredient Statement" would still be considered on the "Front Panel", if it was moved one panel to the left, provided potential buyers could see that panel when viewing the product as sold. Moving the panel in this way would hopefully eliminate the need to break up use direction or precautionary text.
4. In the future, if you have other suggestions for clarifying the labeling, we would be glad to review these suggestions.

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 bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,



Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

Enclosures: 1. Stamped Label
2. A-79 Enclosure

Peacock:WP:A:#8:NITRATE\56228-2.NOT:305-5407/-6600:4/1/96

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

WARNING

After ignition, cartridge produces toxic gases. Fumes may be harmful if inhaled.

ENVIRONMENTAL HAZARDS

This product is highly toxic to wildlife. Check all burrows for signs of nontarget species. If present, do not treat burrows.

CHEMICAL HAZARDS

Once ignited by the fuse, this cartridge will burn vigorously until completely spent and is capable of causing severe burns to exposed skin and clothes, and of igniting dry grass, leaves and other combustible materials.

**ENDANGERED SPECIES
CONSIDERATIONS**

NOTICE: The killing of a member of an endangered species due to use of gas cartridges may result in a fine and/or imprisonment under the Endangered Species Act. All users of this product must determine whether endangered species are known to occur or might occur in the intended use areas. Consult the nearest U.S. Fish and Wildlife Service regional office or the appropriate State agency for current information on habitats occupied by endangered species. See attached page for particular endangered species restrictions.

DIRECTIONS FOR USE

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

USE RESTRICTIONS

This product may be used to control woodchucks (*Marmota monax*), yellow-bellied marmots (*M. flaviventris*), ground squirrels (*Spermophilus spp.*), black-tailed prairie dogs (*Cynomys ludovicianus*), white-tailed prairie dogs (*C. leucurus*), Gunnison prairie dogs (*C. gunnisoni*), and pocket gophers (*Geomys spp.*, *Pappogeomys edwardsi*, and *Thomomys spp.*) in open fields, non-crop areas, rangelands, reforested areas, lawns, and golf courses.

CONTINUED ON RIGHT COLUMN

GAS CARTRIDGE

For control of woodchucks, yellow-bellied marmots, ground squirrels, prairie dogs and pocket gophers.

NOT FOR SALE TO PERSONS UNDER
6 YEARS OLD

ACTIVE INGREDIENTS:

| | |
|----------------------|-------|
| Sodium Nitrate | 53.0% |
| Charcoal | 28.0% |

| | |
|---------------------------|----------------|
| INERT INGREDIENTS: | 19.0% |
| TOTAL | 100.00% |

**KEEP OUT OF REACH OF CHILDREN
WARNING**

STATEMENT OF PRACTICAL TREATMENT
CALL A PHYSICIAN OR POISON CONTROL CENTER
IMMEDIATELY

If inhaled and person has poisoning symptoms (headache, nausea, dizziness, weakness), transfer victim to fresh air. Have victim lie down and keep warm. If respiration is adequate, recovery will be rapid. If breathing has stopped, use artificial respiration. If available, pure oxygen should be given.

SEE LEFT SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

Hyattsville, MD 20782
EPA Est. No. 56228-ID-1
EPA Reg. No. 56228-2

ACCEPTED
Net Weight 30 CARTRIDGES (44.6 grams)
In EPA Letter Dated

APR 1 - 1996

Under the Federal Insecticide,
Fungicide, and Herbicide Act
as amended, for the sale of
registered under EPA Reg.

56228-2

STORAGE AND

Do not contaminate water, food, or soil. Dispose of in accordance with local, state, and federal regulations.

STORAGE: Store in cool, dry place, away from heat and direct sunlight.

PESTICIDE DISPOSAL: Empty cartridges, soak in water, crush, and dispose in loose soil.

CONTAINER DISPOSAL: Puncture and dispose in accordance with local, state, and federal regulations.

DIRECTIONS FOR USE

USE RESTRICTIONS CONTINUED

This product may only be used on burrow systems. It may not be used on other man-made structures. Do not use material or when either the soil or the area to be treated are in extreme dryness. THIS PRODUCT ONLY IN ACTIVE SPECIES.

APPLICATION DIRECTIONS

General Procedures Locate and mark the burrow system except the entrance. Obtain material needed for treatment once the cartridge is applied.

Using a nail at least 1/8" in diameter, insert fuse-end cap of the cartridge into the burrow. Insert fuse in one of the center holes. The depth is a minimum of 3 inches of soil.

NOTE: The minimum burn time is 30 seconds.

Hold cartridge away from face and hands. Place cartridge, fuse-end cap, into burrow as possible. Close entrance. Cover all cracks in soil.

TARGET-SPECIFIC DIRECTIONS
See back panel.

DIRECTIONS FOR USE (Continued)

TARGET-SPECIFIC DIRECTIONS

Woodchucks and yellow-bellied marmots: Consult state wildlife agency before using this product for woodchuck or marmot control. Examine burrows to be sure they are in active use by woodchucks or rockchucks. Burrows are 25 to 30 cm (10 to 12 inches) in diameter. Active burrows have a mound of fresh soil at the main entrance and trails leading to feeding areas. Do not gas if nontarget species are observed entering or using the burrow. It is preferable to control woodchucks or marmots in February and March before young are born and leave the borrows. Fewer nontarget species use the burrows in the spring. Use extra caution when treating woodchuck or marmot burrows in October through January when the burrows may be inhabited by cottontail rabbits. DO NOT treat unoccupied burrows.

Locate all burrow entrances if possible. Select one for treatment and close all others with rock and soil. Light fuse and insert cartridge fuse-end first as far as possible into burrow. Immediately cover opening with rock and soil, being careful not to smother cartridge.

GROUND SQUIRRELS AND PRAIRIE DOGS: Ground squirrel burrow design varies with the species, soil type, habitat, and climate. Burrows may be as deep as 3 m (9 feet). Diameter varies with the body size of the species and may range from 5 to 25 cm (2 to 10 inches). Prairie dog burrows have large holes and cone shaped mounds and may extend to 5 m (15 feet) below the surface. It is preferable to treat burrows of either genus during the spring breeding season. Observe the area in early morning and late evening during 24 hours before treating burrows to confirm that prairie dogs or ground squirrels are actively using the site. DO NOT treat unoccupied burrows. DO NOT treat burrows with evidence that a snake or weasel has entered in pursuit of prey.

Burrowing owls occasionally use prairie dog burrows for breeding from May through July. Check with the local wildlife agency before using this product to determine the possible presence of burrowing owls in the area to be treated and inspect the colony for signs of burrowing owls. The presence of owls is indicated by the presence of guano or shredded cow and horse dung around the burrow from May through mid-June. If burrowing owls are known or suspected to be present in a colony, DO NOT use the gas cartridge in the colony from May to July.

Collect soil and other material to close burrow openings. Treat each burrow opening by lighting fuse and inserting cartridge into burrow, fuse end first (make sure burrow is large enough for easy insertion of cartridge before lighting fuse). Cover burrow immediately, taking care not to smother cartridge with loose soil. Immediately cover all nearby cracks in soil or openings from which smoke escapes. Proceed to nearest open burrow and follow same procedure.

POCKET GOPHERS: Burrow systems usually consist of a main burrow 10 to 50 cm (4 to 20 inches) below the ground surface and a variable number of lateral burrows off the main. There are deeper branches off the main burrow that are used as nests and food caches. Burrow diameter varies with the body size of the species but usually is 5 to 12 cm (2 to 5 inches). Locate characteristic fan-shaped soil mounds at each burrow entrance with signs of recent activity. Remove the soil plug from the center of the mound. Return the next day to see if the burrow opening has been replugged indicating the burrow is in active use by pocket gophers. DO NOT treat unplugged burrows.

Find the horseshoe-shaped depression on one side of the plugged mound. To locate the main runway, probe ground 15-18 inches from mound on the same side as depression. The main runway has been located when friction on probe is released and it falls into the runway. Dig down to main runway, taking care to not block it with soil. Locate an opening large enough for easy insertion of the cartridge. Collect enough

soil and other material to close opening. Light fuse and insert cartridge fuse-end first.

One cartridge placed in the end of a runway is sufficient. Two cartridges must be used if placed in the middle of a runway or if the runway is "T" or "Y" shaped. Otherwise, there is a 50% chance the pocket gopher will be on the untreated side of the plug in the runway. Immediately cover opening, taking care not to smother cartridge with loose soil. Cover all nearby cracks in soil where smoke escapes. Treat all active mounds.

CONTAINER LABEL (H. J. J.)
56228-2
4-1-46

GAS CARTRIDGE

EPA Reg. No. 56228-2

ENDANGERED SPECIES CONSIDERATIONS

Use of this product is subject to limitations set forth below for the purpose of protecting endangered species.

Black-footed ferret. To limit risks to the black-footed ferret (*Mustela nigripes*) and to avoid destruction of its prey base, do not use this product within 4.3 miles (7 kilometers) of any prairie dog town unless the colony is an isolated black-tailed prairie dog town less than 80 acres in size or an isolated white-tailed or Gunnison prairie dog town less than 200 acres in size, or unless the town has been appropriately surveyed, using methods acceptable to the U.S. Fish and Wildlife Service, and found not to contain black-footed ferrets and found by the FWS not to be a suitable site for ferret reintroductions.

Use of this product within the occupied habitats of the organisms listed below is limited to qualified individuals who have been trained to distinguish dens and burrows of target species from those of nontarget species. Such individuals may be wildlife biologists, certified applicators, representatives of California State or Federal agencies, or agents of county agricultural offices or university extension offices. These limitations apply to uses in occupied habitats of

Fresno kangaroo rat (*Dipodomys nitratoides exilis*) in Fresno and Merced Counties, California;

Giant kangaroo rat (*D. ingens*) in Merced, Fresno, Kings, Tulare, Kern, San Luis Obispo, and Santa Barbara Counties, California;

Stephen's kangaroo rat (*D. stephensi*) in Riverside, San Diego, and San Bernardino Counties, California;

Tipton kangaroo rat (*D. n. nitratoides*) in Kings, Tulare, Kern, and Fresno Counties, California.

Point Arena mountain beaver (*Aplodontia rufa nigra*) in Mendocino County, California;

San Joaquin kit fox (*Vulpes macrotis mutica*), as determined by the U.S. Fish and Wildlife Service (FWS), in Alameda, Contra Costa, Fresno, Kern, Kings, Merced, Monterey, San Benito, San Joaquin, San Luis Obispo, Santa Barbara, Santa Clara, Stanislaus, or Tulare Counties, California;

Desert tortoise (*Gopherus agassizii*) in Arizona, southern California, southern Nevada, and southern Utah.

Do not use this product within the occupied habitats of the following endangered animals:

Hualapai Mexican vole (*M. Mexicanus hualapaiensis*) in Mohave County, Arizona;

Morro Bay kangaroo rat (*D. heermanni morroensis*) in San Luis Obispo County, California;

Utah prairie dog (*Cynomys parvidens*) in Garfield, Iron, Kane, Piute, Sevier, and Wayne Counties, Utah;

Coachella Valley fringe-toed lizard (*Uma inornata*) in the Coachella Valley area of southern California;

Island night lizard (*Xantusia riversiana*) on Santa Barbara, San Clemente, and San Nicolas Islands, California.

Blunt-nosed leopard lizard. Do not use this product within the occupied habitat of the blunt-nosed leopard lizard (*Gambelia silus*) in Fresno, Kern, Kings, Merced, Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Clara, and Stanislaus Counties, California, from October 1 to April 15, unless a specific blunt-nosed leopard lizard protection program for this period is approved by the U.S. Fish and Wildlife Service and fully implemented. Use of this product in occupied habitat of this species from April 15 through September 30 is limited to daylight hours when air temperatures are 77-95°F (20-30°C).

San Francisco garter snake. Do not use this product within the occupied habitat of the San Francisco garter snake (*Thamnophis sirtalis tetrataenia*) in San Mateo, San Francisco, Santa Clara, and Santa Cruz Counties, California, from November 1 to March 30, unless a specific San Francisco garter snake protection program for this period is approved by the U.S. Fish and Wildlife Service and fully implemented. Use of this product in occupied habitat of this species under such approved programs or from April 1 through October 31 is limited to qualified individuals who have been trained to distinguish dens and burrows of target species from those of nontarget species. Such individuals may be wildlife biologists, certified applicators, representatives of California State or Federal agencies, or agents of county agricultural offices or university extension offices.

Eastern indigo snake. Do not use this product within habitat types and locales known to support the eastern indigo snake (*Drymarchan corais couperi*) throughout Florida and the coastal plain of Georgia.

Gopher tortoise. Do not use this product in or adjacent to known gopher tortoise (*Gopherus polyphemus*) occupied habitat west of the Mobile and Tombigbee Rivers in Alabama.

ACCEPTED
with COMMENTS
in EPA Letter Dated

1981

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
56228-2

1981
7/95
b 76-1-7
7/95

