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117

FEB 11 1998

U.S. Department of Agriculture  
Animal and Plant Health Inspection Service  
4700 River Road, Unit 152  
Riverdale, MD 20737-1237

Attention: Dr. Teung F. Chin

Subject: Gas Cartridge  
EPA Reg. No. 56228-2  
Our October 6, 1997, E-Mail Message  
Your amended application of January 9, 1998

In response to our above communication, you have redesigned the labeling for this product to prevent product from being sold to consumers without complete labeling.

The labeling submitted with the above letter is acceptable, provided that you submit one (1) copy of final printed labeling (including the adhesive on the wrap-around label) with the following changes before you release the product for shipment:

A. Individual Cartridge Label

Change "on the back of the label" to "on the back of that label" label at the end of the "GENERAL PROCEDURES" paragraph to make doubly sure that no one goes looking for the endangered species text on the carton label or by trying to peel the label off of a cartridge.

B. Carton Label

No changes are needed.

C. Wrap-Around Label

- 1. Invert the instructions "LIFT AND PEEL TO ACCESS FULL LABEL" so that they are right side up with respect to the rest of the text.
- 2. Make the changes identified below to the endangered species text on the back side of the wrap-around label.

a. Relocate the paragraph

"Use of this product within the occupied habitats . . . extension offices"

so that it precedes the list of organisms to which it refers. In the first sentence of this paragraph, replace "above" to "immediately below".

b. Delete "and southern Utah" from the entry for the "Fresno kangaroo rat".

c. Change

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

to

"Do not use this product within the occupied habitats of the endangered animal types listed immediately below."

Move this text so that it precedes the list of organisms to which it refers.

d. Delete "and San Nicholas Islands, California" from the entry for the "Hualapi Mexican vole".

e. Delete "in rivers in Alabama or" from the entry for the "Blunt-nosed leopard lizard".

f. The wrap-around label must have pressure-sensitive adhesive at the bottom, as well as the top, of the label so that it will adhere to the cartridge. Otherwise, the label will separate from the cartridge and possibly not reach the customer. If such separation occurred, the product would be misbranded, the problem that initiated our original October communication.

This registration will be subject to cancellation in accordance with FIFRA sec. 6(e) if you do not comply with these conditions. 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.

If you have questions about this letter, you may reach me by phone (703-305-5407, fax (703-305-6596), or E-Mail (peacock.dan@epamail.epa.gov).

Sincerely,



Daniel B. Peacock, Biologist  
Insecticide-Rodenticide Branch  
Registration Division (7504C)

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

Peacock:Disk 15:A:\GasCartr\56228-2.Feb:305-5407:2/10/98

## GAS CARTRIDGE

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

NOT FOR SALE TO PERSONS UNDER 16 YEARS OLD

### ACTIVE INGREDIENTS:

Sodium Nitrate ..... 53.0%

Charcoal ..... 28.0%

Total ..... 81.0%

INERT INGREDIENTS:..... 19.0%

TOTAL ..... 100.0%

### 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

#### 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" printed on the back of the label attached to each cartridge, to protect endangered species.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

FEB 11 1998

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
this pesticide was registered under EPA Reg. No.

58228-2

11/15/97 pestcd/GAS

### PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

## WARNING

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

### 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 material. ~~DO NOT USE IN OR UNDER BUILDINGS~~

### 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 RIGHT PANELS FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

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

**PESTICIDE DISPOSAL:** To dispose of unused cartridges, soak in water, crush and bury at least 6" deep in loose soil.

**CONTAINER DISPOSAL:** Place in trash collection.

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE  
Ft. Belknap, MD 20737  
EPA Est. No. 56228-ID-1  
EPA Reg. No. 56228-2

Net Weight (5.1oz (143 gram))

11/97

### 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*), and Gunnison prairie dogs (*C. gunnisoni*) in open fields, non-crop areas, rangelands, reforested areas, lawns, and golf courses. This product may only be used underground in burrow systems. It may not be used to fumigate buildings or other man-made structures. Do not use in or under buildings or near flammable material, or when either the soil or the vegetation in the area to be treated are in extremely dry conditions. USE THIS PRODUCT ONLY IN BURROW SYSTEMS KNOWN TO BE IN ACTIVE USE BY THE TARGET SPECIES.

### APPLICATION DIRECTIONS GENERAL PROCEDURES

Locate and plug all entrances to the burrow system except the entrance selected for treatment. Obtain material needed to plug the entrance once the cartridge is applied.

Using a nail at least 1/8" in diameter, puncture the fuse-end cap of the cartridge at the points marked on it. Insert fuse in the center hole into the cartridge. Insure that there is a minimum of 3 inches of exposed fuse.

**NOTE:** The minimum burn time for these fuses is 5 seconds.

Hold cartridge away from face and body, then light fuse. Place cartridge, fuse-end first, as far into the burrow as possible. Close entrance to burrow immediately. Cover all cracks in soil where smoke escapes.

### 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 burrows. 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.

### DIRECTIONS

**Ground Squirrels and Prairie Dogs:** Varies with the species, soil type, and may range from 3 m (9 feet) to 5 m (15 feet) below the surface. Check for signs of activity in the spring, early morning and late evening to confirm that prairie dogs are present. DO NOT treat unoccupied burrows with evidence that a snake or owl is present.

**Burrowing owls:** Occasionally active from May through July. Check for signs of activity in the area to be treated and in the area to be treated and in the area to be treated and in the area to be treated. The presence of owls in the area to be treated and in the area to be treated and in the area to be treated. DO NOT use the product in the area to be treated and in the area to be treated and in the area to be treated.

Collect soil and other material from the burrow opening by lighting the fuse end first (make sure burrow is plugged before lighting fuse) and not to smother cartridge with soil or openings in the area to be treated and in the area to be treated and in the area to be treated.

Mini Gas Cartridge Label

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HOLD THIS END <> HOLD THIS END <> HOLD THIS END <> HOLD THIS END <> HOLD THIS END <> HOLD THIS END <> HOLD THIS END <> HOLD THIS END <> HOLD THIS END <>

**GAS CARTRIDGE**

For control of woodchucks, yellow-bellied marmots, ground squirrels, & prairie dogs

**WARNING**

NOT FOR SALE TO PERSONS UNDER 16 YEARS OLD.

KEEP OUT OF REACH OF CHILDREN

Contains: Sodium Nitrate (53.0%), Charcoal (28.0%), Inert Ingredients (19.0%)

**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.

**DIRECTIONS FOR USE:**

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

**DO NOT USE IN OR UNDER BUILDINGS OR NEAR FLAMMABLE MATERIALS.**

Do not use in areas where endangered or threatened species are present (See back of attached label for endangered species considerations).

ACCEPTED with COMMENTS in EPA Letter Dated:

FEB 11 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act.

as a pesticide, the pesticide registered under EPA Reg. No. 56228-2.

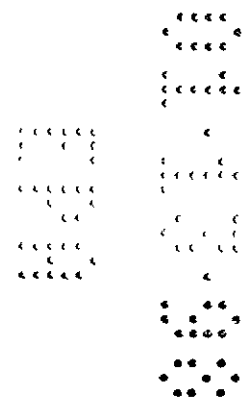
**DO NOT use this product until you have read all of its labeling and fully understand the 'Directions for Use' and all use precautions which appear on the attached label and endangered species considerations printed on the back of the label.**

Select a burrow away from flammable material or buildings for treatment, and obtain material to plug the entrance. With a nail at least 1/8" in diameter, puncture cap at marked points at end of cartridge marked "IGNITE THIS END". Insert fuse in the center hole into cartridge. Insure that there is a minimum of 3" of fuse exposed. Hold cartridge away from face and body while lighting. Insert fuse end of cartridge into burrow as far as possible. Seal entrance to burrow immediately.

U.S. DEPT. OF AGRICULTURE, APHIS  
Riverdale, MD 20737-1237  
EPA Est. No. 56228-ID-1  
EPA Reg. No. 56228-2  
Net Weight 5.1oz (144.6 g)

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IGNITE THIS END <> IGNITE THIS END <> IGNITE THIS END <> IGNITE THIS END <> IGNITE THIS END <>



Detachable 67  
Cartridge  
Label

**GAS CARTRIDGE**

For control of woodchucks, yellow-bellied marmots, ground squirrels, and prairie dogs.  
NOT FOR SALE TO PERSONS UNDER 16 YEARS OLD.

**ACTIVE INGREDIENTS:**

Sodium Nitrate	53.0%
Charcoal	28.0%
Total	81.0%

**INERT INGREDIENTS:**

TOTAL	19.0%
TOTAL	100.0%

**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**

**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" on the back of this label to protect endangered species.

**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 RIGHT PANEL & BACK OF LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

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

**PESTICIDE DISPOSAL:** To dispose of unused cartridges, soak in water, crush and bury at least 6" deep in loose soil.

**CONTAINER DISPOSAL:** Place in trash collection.

**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*), and Gunnison prairie dogs (*C. gunnisoni*) in open fields, non-crop areas, rangelands, reforested areas, lawns, and golf courses. This product may only be used underground in burrow systems. It may not be used to fumigate buildings or other man-made structures. Do not use in or under buildings or near flammable material, or when either the soil or the vegetation in the area to be treated are in extremely dry conditions. USE THIS PRODUCT ONLY IN BURROW SYSTEMS KNOWN TO BE IN ACTIVE USE BY THE TARGET SPECIES.

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE  
Washington, D.C. 20253

EPA Est. No. 56228-ID-1

EPA Reg. No. 56228-2

Net Weight 5.1 oz (144.6 grams)

11/97

**PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS WARNING**

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

**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 material. **DO NOT USE IN OR UNDER BUILDINGS.**

**DIRECTIONS FOR USE (CON'T)**

**APPLICATION DIRECTIONS GENERAL PROCEDURES**

Locate and plug all entrances to the burrow system except the entrance selected for treatment. Obtain material needed to plug the entrance once the cartridge is applied.

Using a nail at least 1/8" in diameter, puncture the fuse-end cap of the cartridge at the points marked on it. Insert fuse in the center hole into the cartridge. Insure that there is a minimum of 3 inches of exposed fuse.

**NOTE:** The minimum burn time for these fuses is 5 seconds.

Hold cartridge away from face and body, then light fuse. Place cartridge, fuse-end first, as far into the burrow as possible. Close entrance to burrow immediately. Cover all cracks in soil where smoke escapes.

**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 burrows. 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.

ACCEPTED  
with COMMENTS  
(in EPA Letter Dated:

FEB 11 1998

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

## ENDANGERED SPECIES CONSIDERATIONS

(GAS CARTRIDGE, EPA Reg. No. 56228-2)

Use this product according to these instructions to protect endangered species.

**Black-footed ferret (*Mustela nigripes*).** To limit risks to the black-footed ferret 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.

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

**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 macrura*),** unless authorized 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.

Use of this product within the occupied habitats of the organisms listed above 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.

**Hualapai Mexican vole (*M. mexicanus hualapalensis*)** in Mohave County, Arizona and San Nicolas Islands, California;

**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 Nicholas Islands, California;

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

**Blunt-nosed leopard lizard (*Gambelia silus*).** Do not use this product within the occupied habitat of the blunt-nosed leopard lizard in rivers in Alabama or 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 (*Thamnophis sirtalis tetrataenia*).** Do not use this product within the occupied habitat of the San Francisco garter snake 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 (*Drymarchon corais couperi*).** Do not use this product within habitat types and locales known to support the eastern indigo snake throughout Florida and the coastal plain of Georgia.

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