RODENTICIDES
Technical product catalog and usage guide

Complete Rodent Control Solutions.
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From its first rodenticide product produced in 1949, Hacco, Inc. has grown into a specialty bait manufacturer that is now an integral part of Neogen. Hacco and its team of professionals are recognized leaders in rodenticide formulation development, manufacturing and packaging. Hacco has an extensive facility with flexible production capabilities. Formulation techniques and packaging expertise, learned through years of innovative problem solving, have resulted in significant technological improvements incorporated into these products. Quality Assurance and Quality Control laboratories are also located onsite at our Randolph facilities. The research capabilities of Hacco include product evaluation, product development and laboratory testing. Formulations—including grain baits, extruded bars, pellets and paraffin blocks—are thoroughly researched and tested for target species acceptability and efficacy. Testing is performed by a highly skilled and experienced technical staff with state of the art equipment.

Turn the page and view useful tips and our extensive line of rodenticide products ideal for the agricultural industry.

Rats and mice destroy an estimated $30 billion in food products per year, spread bacteria and leave associated filth in food and feed supplies. Reducing stress on food animals and damage to crops by effectively reducing the adverse effects of rodents and the dangerous pathogens they carry has a significant impact on the subsequent safety and quality of food and animal health.
Neogen’s 4-Step Rodent Control Program
Control rats and mice in and around your facilities

Step One: PREVENT
Clean, clear and implement preventative measures.
1. Eliminate debris and other harborage for rodents in and around the facility.
2. Remove easily accessible rodent food sources, including spilled feed. Eliminating food sources increases the effectiveness of rodent baits.
3. Clear/mow around the facility (~3 feet) to discourage rodents from entering.

Step Two: IDENTIFY
Find the location and severity of the problem.
1. Examinations done at dawn or dusk work best.
2. Are there fresh droppings, burrows, tracks or gnaw marks? Be sure to inspect ceilings, other elevated runways and facility grounds.
3. Do you have rats, mice, or both?

Step Three: EXECUTE
Implement baiting strategy according to target rodents and locations.

a. Outside: Along the perimeter, place bait stations 15–30 feet apart for rats and 8–12 feet for mice. Use Havoc®-XT Bloks, Havoc Chunks, CyKill™ Blocks, or Di-Kill™ Blocks and replace eaten bait at least weekly to start.

b. Inside: Use bait stations. Chunk or block baits can be nailed or zip-stripped directly to overhead locations. Place packs should be placed in attics, ceilings, or other hard to access areas that rodents are using. Contact Neogen for more specific baiting suggestions.

Step Four: MONITOR
Monitor the effectiveness of your program with record keeping.

Frequency of baiting should change with increased activity.
A sample audit form is available on page 30 of this guide.

This information is intended for use only as a guide in providing general information regarding the directions, warning and cautions associated with the use of rodenticide products. As with any pesticide, always follow the label instructions on the product packaging before using.

Did you know?
- Rats and mice are known to carry and transmit over 35 diseases that are threats to humans and domestic livestock.
- At least 20 percent of the world’s food is eaten or contaminated by rats and mice each year.

Neogen Corporation 800-621-8829 (USA/Canada) • 859-254-1221 • inform@neogen.com • www.neogen.com

Neogen’s 4-Step Rodent Control Program
Control rats and mice in and around your facilities
### Diphacinone Bait Products

**ACTIVE INGREDIENT:**

Diphacinone ............................................................0.005%

**OTHER INGREDIENTS:** ..........................................99.995%

**TOTAL INGREDIENTS:** ........................................100.000%

Ramik comes in various forms and package sizes suitable for any use, from rat infestations encountered in livestock and poultry production facilities to the occasional mouse in the house. See the size offerings and usage guides on the following pages to choose a Ramik product that’s right for your particular needs.

- **1st generation anticoagulant: diphacinone**
- **Available in nuggets, bars and mini bars configurations**
- **Fish flavored for high palatability**
- **Food-quality grain mix**
- **Can be used indoors and outdoors**
- **Especially suited for wet or damp areas**

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Intended Use</th>
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<tbody>
<tr>
<td><strong>Ramik Green</strong></td>
<td>Target Rodents: Norway Rats, Roof Rats and House Mice</td>
<td>This product can only be used to control Norway rats, roof rats, and house mice in and within 100 feet of man-made structures or other permanent or temporary structures used in or around structures vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft), docks and port of terminal buildings and related structures and associated with these sites. Fence and perimeter bait, beyond 100 feet from any structure as defined above, is prohibited. This product must not be applied directly to food or feed crops. Burrow baiting with Ramik® Green is prohibited. Do not place near or inside ventilation duct openings. Do not contaminate water, food, feeds, or food handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations.</td>
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<tr>
<td><strong>Ramik Green Bait Packs</strong> (½” nuggets)</td>
<td>Target Rodents: Norway Rats, Roof Rats and House Mice</td>
<td>For control of Norway rats, roof rats and house mice in and around homes, industrial and agricultural buildings, and similar man-made structures. This product is especially suited for use in wet or damp areas, including river banks, gullies, irrigation ditches, railroad tracks, loading areas, under grainaries, along fences, garbage dumps and sanddunes.</td>
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For additional information please refer to the container label for a complete list of uses and instructions.
This product is for control of only Norway rats, rodent and house mice in and around homes, industrial, commercial, agricultural, and public buildings, and similar mature-made structures. May also be used in transport vehicles (ships, trains, aircraft) and in and around related port or terminal buildings. Do not apply further than 50 feet from buildings. Do not use in edible-product areas of food or feed processing plants or other areas where food or feed is commercially prepared or processed. Do not contaminate food/feed or food/feed handling equipment or place near or inside ventilation duct openings. Do not broadcast bait. When used in USDA-inspected facilities, this product must be applied in tamper-resistant bait stations.

Target Rodents: Norway Rats, Roof Rats and House Mice

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Refillable Bait Station

This product may only be used to control house mice (Mus musculus) in homes, and in industrial, commercial, or agricultural buildings. Do not use this product outdoors. Do not place this product in areas where there is a possibility of contaminating food, animal feed, water, or surfaces that come in direct contact with food, feed, or water. Do not place station near or inside ventilation equipment or ventilation duct openings.

For control of pocket gophers and moles. In portable, ground-level applications only. Not intended for residential use. Not approved for the control of moles in the following states: California, Hawaii, Indiana and New Hampshire. For use only against the eastern mole (Scapillus aquaticus) and the Hairy-tailed mole (Parascalops breweri) in Northern Carolina. Not for use against the star-nosed mole (Condylura cristata penax) in North Carolina.
Always read container label for a complete list of uses and instructions.

Brodifacoum is the strongest second generation anticoagulant rodenticide available. Havoc products combine brodifacoum with a special mixture of highly attractive bait ingredients along with patented food processing techniques. The result is a superior, single-feed rodenticide delivery system.

Havoc is available in pellets, blocks, or meal bait. The multiple dimension designs of both the Havoc-XT Block and Havoc Attack Blocks include a hole through the center of each block allowing for secure bait placement. The Havoc Rodenticide Bait offers superior palatability when competing food sources are high.

See the size offerings and usage guides on the following pages to choose a Havoc product that's right for your particular needs.

- Second generation anticoagulant—the strongest available*
- May kill both rats and mice in a single night’s feeding
- Available in pellets, blocks, and Meal Bait configurations
- Havoc Attack Blocks contain Bitrex®, a child and non-target deterrent
- Havoc Attack Blocks are formulated specifically for use by livestock producers offering high palatability and acceptance
Havoc Rodenticide Bait combines superior palatability Meal Bait with the proven active ingredient brodifacoum to control warfarin-resistant Norway rats, roof rats, and house mice in areas where competing food or feed sources are present.

The food-grade ingredients in Havoc Rodenticide Bait provide an excellent base for superior palatability, and its brodifacoum is an effective second-generation rodent anticoagulant capable of killing rats and mice in a single feeding. The meal bait product offers superior rodent acceptance as it contains food-grade ingredients, seeds and grains, which provide rodents a variety of textures and flavors.

Key Features:
- Specially formulated bait that includes highly palatable food grade rolled oats
- Just teaspoon amounts will control House Mice, Norway Rats and Roof Rats
- Contains 0.005% Brodifacoum- strongest single feed second generation active available
- Meal baits are excellent for use where competing food or feed sources are present
- Use as a supplement to Neogen’s current Rotational Baiting Strategy - during periods of heavy rodent infestation.
- May be used in and around buildings and structures and inside burrows

Active Ingredient: Brodifacoum
- Acute, single-dose rodenticide containing the active ingredient, 0.005% Brodifacoum
- Kills House Mice, Norway Rats and Roof Rats
- Rodents may consume a lethal dose in a single-night’s feeding, with the first dead rodents appearing four or five days after feeding begins.
- Very attractive for rodent control when there is a lot of feed sources around.
- Only 1 to 2 tablespoon amounts will control rodents in an 8 x 12 foot space.
- May be used in and around buildings and structures and inside burrows.
- Use as a supplement to Neogen’s current Rotational Baiting Strategy - during periods of heavy rodent infestation.

Product Function:
Havoc Rodenticide Bait contains oats and other food material to make bait very attractive when there is a lot of feed sources around. Rodenticide baits, while the least weatherable bait form, gets superior rodent acceptance because they contain food-grade ingredients, seeds and grains which give rodents a variety of textures and flavors. Havoc combines the oats and other food material with the active ingredient brodifacoum to give an attractive bait form to rodents.

Application Directions:

**Norway and Roof Rats:**
Apply 4 to 16 ounces Havoc Rodenticide Bait per placement. Space placements at intervals of 15-30 feet in infested areas. Maintain an uninterrupted supply of fresh bait for 10 days or until there no longer are signs of new feeding by rats.

**House Mice:**
Apply ¼ to ½ ounce (1-2 level tablespoons) of Havoc Rodenticide Bait per placement. Space placements at 8 - 12 foot intervals. Larger placements (up to 2 ounces) may be needed at points of very high mouse activity. Maintain an uninterrupted supply of fresh bait for 15 days or until there no longer are signs of new feeding by house mice.

Follow-up:
Replace contaminated or spoiled bait immediately. Using waterproof gloves collect and dispose of all dead, exposed animals and leftover bait properly. To discourage reinfection, limit sources of rodent food, water and harborage as much as possible. If reinfection does occur, repeat treatment. Where a continuous source of infestation is present, establish permanent bait stations and replenish as needed.
Bromethalin was developed to combat a worldwide perceived problem of rodent resistance to warfarin-like anticoagulant rodenticides. Bromethalin is not an anticoagulant but a highly potent neurotoxin rodenticide that provides a lethal dose to rodents in a single feeding. Bromethalin attacks the central nervous system; rodents usually consume a lethal dose within a single night’s feeding, with first dead rodents appearing within 2 days. Available in bait blocks or place packs. CyKill is best used as part of Neogen’s Rotational Baiting Program.

- Palatable bait is preferred over most feeds, food sources and competitive baits
- Rodents stop feeding after consuming a lethal dose; this results in a consumption of 80% less bait than with traditional baits
- No known resistance, neurotoxicant formulation
- Reduced risk of secondary toxicity

Did you know?
Rodent feces and urine are a source of gastrointestinal diseases such as Salmonellosis or E. coli infections.

Rotational Baiting Program
Use Neogen’s Rotational Baiting Program and break the cycle of rodent anticoagulant resistance. At right is a sample rotation. Contact your Neogen representative for more information.

Always read container label for a complete list of uses and instructions.
Difenacoum is the latest in rodent control. This hard-hitting second generation anticoagulant can knock down rodents in 4–5 days. Difenacoum has outstanding control of mice. It kills resistant bait used as part of Neogen’s Rotational Baiting Program.

- Hard-hitting second generation anticoagulant
- Palatable formulation made from food-grade ingredients
- Lower primary toxicity—less toxic than other bait to non-target animals*
- Kills warfarin-resistant rodents

*Difenacoum is the latest in rodent control. This hard-hitting second generation anticoagulant can knock down rodents in 4–5 days. Difenacoum has outstanding control of mice. It kills resistant bait used as part of Neogen’s Rotational Baiting Program.

### Active Ingredient:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Difenacoum</td>
<td>0.005%</td>
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### Total Ingredients:

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<th>Ingredient</th>
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<td>TOTAL</td>
<td>100.000%</td>
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### Other Ingredients:

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<th>Percentage</th>
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<tr>
<td>OTHER</td>
<td>99.995%</td>
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### Di-Kill Bait Products

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<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Intended Use</th>
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<tbody>
<tr>
<td><strong>Di-Kill Place Packs</strong></td>
<td><strong>Target Rodents:</strong></td>
<td>this product may be used to control Norway rats, norway rats, roof rats, and</td>
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<td><strong>(place packs)</strong></td>
<td>house mice in and around agricultural buildings only. Do not use in homes or</td>
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<td><strong>Rats:</strong></td>
<td>other human residences. Do not apply further than 50 feet from agricultural</td>
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<td>** House Rats:**</td>
<td>buildings. Do not use this product in sewers. Do not place bait near or inside</td>
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<td>** House Mice:**</td>
<td>of ventilation duct openings. Do not contaminate water, food, feed, food or</td>
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<td>feed handling equipment, or any area where there is a possibility of contaminating</td>
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<td>food, milk, or meat, or surfaces that come into contact with food, feed, milk,</td>
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<td>or meat. Do not use in edible product areas of food or feed processing plants or</td>
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<td>other areas where food or feed is commercially prepared or processed. All outdoor</td>
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<td>placements of this product must be made in bait stations. Tamper-resistant</td>
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<td>bait stations must be made in tamper-resistant bait stations. Use water-</td>
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<td>resistant gloves when handling bait.</td>
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<td><strong>Rats:</strong> Apply 4 to 16 ounces of bait per placement, using bait stations as</td>
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<td>required under &quot;IMPORTANT&quot;. Space placements at intervals of 15 to 30 feet in</td>
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<td>infested areas pertaining to structures. Maintain an uninterrupted supply of</td>
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<td>fresh bait for at least 10 days or until fresh signs of feeding by rats cease</td>
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<td>to appear.</td>
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<td><strong>Mice:</strong> Apply ½ to 1½ ounces of bait per placement, using bait stations as</td>
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<td>required under &quot;IMPORTANT&quot;. Space placements at intervals of 8 to 12 feet in</td>
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<td>infested areas pertaining to structures. Larger quantities (up to 2 ounces)</td>
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<td>may be made in areas of extremely high mouse activity. Maintain an uninterrupted</td>
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<td>supply of fresh bait for at least 15 days or until fresh signs of feeding by</td>
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<td>mice cease to appear.</td>
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<td></td>
<td><strong>Bulk Pellets</strong></td>
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<td>house mice in and around agricultural buildings only. Do not use in homes or</td>
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<td>other human residences. Do not apply further than 50 feet from agricultural</td>
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<td>buildings. Do not use this product in sewers. Do not place bait near or inside</td>
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<td>of ventilation duct openings. Do not contaminate water, food, feed, food or</td>
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<td>feed handling equipment, or any area where there is a possibility of contaminating</td>
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<td>food, milk, or meat, or surfaces that come into contact with food, feed, milk,</td>
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<td>or meat. Do not use in edible product areas of food or feed processing plants or</td>
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<td>resistant gloves when handling bait.</td>
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<td>infested areas pertaining to structures. Maintain an uninterrupted supply of</td>
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<td>fresh bait for at least 10 days or until fresh signs of feeding by rats cease</td>
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<td>supply of fresh bait for at least 15 days or until fresh signs of feeding by</td>
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<td>mice cease to appear.</td>
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<td><strong>Di-Kill Blocks</strong></td>
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<td>house mice in and around agricultural buildings only. Do not use in homes or</td>
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<td>of ventilation duct openings. Do not contaminate water, food, feed, food or</td>
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<td>resistant gloves when handling bait.</td>
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<td><strong>Rats:</strong> Apply 3 to 10 blocks per placement, using bait stations as required</td>
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<td>under &quot;IMPORTANT&quot;. Space placements at intervals of 15 to 30 feet in infested</td>
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<td>areas pertaining to structures. For treating burrows, place 1 to 4 blocks deep</td>
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<td>into each active burrow. Check treated burrows each morning and evening to</td>
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<td>make sure that burrows have not been pushed out of burrows. Maintain an</td>
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<td>uninterrupted supply of fresh bait for at least 10 days or until fresh signs</td>
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<td>of feeding by rats cease to appear.</td>
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<td><strong>Mice:</strong> Apply ½ block per placement, using bait stations as required under</td>
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<td>pertaining to structures. Larger placements, up to 2 blocks, may be used at</td>
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<td>points of extremely high mouse activity. Maintain an uninterrupted supply of</td>
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<td>fresh bait for at least 15 days or until fresh signs of feeding by mice cease</td>
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### Di-Kill Blocks

- **(0.75 oz blocks)**
- **Target Rodents:** Norway Rats, Roof Rats and House Mice
- **Rats:** Apply 3 to 10 blocks per placement, using bait stations as required under "IMPORTANT". Space placements at intervals of 15 to 30 feet in infested areas pertaining to structures. For treating burrows, place 1 to 4 blocks deep into each active burrow. Check treated burrows each morning and evening to make sure that burrows have not been pushed out of burrows. Maintain an uninterrupted supply of fresh bait for at least 10 days or until fresh signs of feeding by rats cease to appear.
- **Mice:** Apply ½ block per placement, using bait stations as required under "IMPORTANT". Space placements at intervals of 8 to 12 feet in infested areas pertaining to structures. Larger placements, up to 2 blocks, may be used at points of extremely high mouse activity. Maintain an uninterrupted supply of fresh bait for at least 15 days or until fresh signs of feeding by mice cease to appear.

### Rotational Baiting Program

Use Neogen’s Rotational Baiting Program and break the cycle of rodent anticoagulant resistance. At right is a sample rotation. Contact your Neogen representative for more information.

**Contact your Neogen representative for more information.**
Micro-encapsulated warfarin, a hydroxycoumarin anticoagulant rodenticide, is contained in all Rodex bait formulations. In early research trials, rat acceptance of micro-encapsulated warfarin baits was 3 to 10 times greater than uncoated warfarin baits. This anticoagulant is a multi-feed chronic rodenticide, and is considered the lowest hazard to non-target animals of any anticoagulant rodenticide*. Rodex bait formulations are available in both pellets and blocks.

- Highly effective against both rats and mice
- Excellent products to use when risk to non-target animals is of utmost importance
- Blocks are moisture-resistant, making them especially suitable for placing in moist or damp areas

**Active Ingredient:**
Warfarin
3-(a-Acetonylbenzyl-4-hydroxycoumarin) 0.025%

**Other Ingredients:**
Warfarin 99.975%

**Total Ingredients:** 100.000%

**Did you know?**
Roof rats and Norway rats are the two most common rats to invade homes and buildings. They can enter a structure through openings as small as a quarter.

**Rodex Pelleted Bait-1**

**Target Rodents:** Norway Rats, Roof Rats and House Mice

**Rats:** Apply 3 to 6 ounces of bait per placement. Space placements at intervals of 15 to 30 feet in infested areas. Maintain an uninterrupted supply of fresh bait for at least 10 days or until there no longer are signs of new feeding by rats.

**Mice:** Apply 1/4 to 1/2 ounces of bait at each placement location. Space placements at 4- to 12-foot intervals. Larger placements (up to 2 ounces) may be needed at points of very high mouse activity. Maintain an uninterrupted supply of fresh bait for at least 15 days or until there are no longer signs of new feeding by house mice.

This product can only be used to control Norway rats, roof rats, and house mice in and within 100 feet of man-made structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft, docks and port of terminal buildings and related structures around and associated with these sites. Fence and perimeter bait, beyond 100 feet from any structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

**Burrow baiting with Rodex Pelleted Bait-1 is prohibited.**

Do not place near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations.

**Rodex Blox-1**

**Target Rodents:** Norway Rats, Roof Rats and House Mice

Each Rodex Blox-1 consists of a 16-ounce block scored so that it can be broken into eight 1 oz pieces. Apply 1/4 to 1/2 ounces of bait at each placement location. Space placements at 4- to 12-foot intervals. Larger placements (up to 2 ounces) may be needed at points of very high mouse activity. Maintain an uninterrupted supply of fresh bait for at least 15 days or until there are no longer signs of new feeding by rats.

Did you know?

**Product Application Intended Use Item Packaging**

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Intended Use</th>
<th>Item</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rodex Pelleted Bait-1</td>
<td><strong>Target Rodents:</strong> Norway Rats, Roof Rats and House Mice</td>
<td><strong>Rats:</strong> Apply 3 to 6 ounces of bait per placement. Space placements at intervals of 15 to 30 feet in infested areas. Maintain an uninterrupted supply of fresh bait for at least 10 days or until there no longer are signs of new feeding by rats.</td>
<td>116348</td>
<td>4 lb resealable pouch</td>
</tr>
<tr>
<td>Rodex Blox-1 (16 oz bars)</td>
<td><strong>Target Rodents:</strong> Norway Rats, Roof Rats and House Mice</td>
<td><strong>Rats:</strong> Apply 3 to 6 ounces of this product per placement. Space placements at intervals of 15 to 30 feet in infested areas. Maintain an uninterrupted supply of fresh bait for at least 10 days or until there are no longer signs of new feeding by rats. <strong>Mice:</strong> Apply 1/4 to 1/2 ounces of bait at each placement location. Space placements at 4- to 12-foot intervals. Larger placements (up to 2 ounces) may be needed at points of very high mouse activity. Maintain an uninterrupted supply of fresh bait for at least 15 days or until there are no longer signs of new feeding by house mice.</td>
<td>116349</td>
<td>4 x 16 oz bars</td>
</tr>
</tbody>
</table>

This product can only be used to control Norway rats, roof rats, and house mice in and within 100 feet of man-made structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft, docks and port of terminal buildings and related structures around and associated with these sites. Fence and perimeter bait, beyond 100 feet from any structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

**Burrow baiting with Rodex Pelleted Bait-1 is prohibited.**

Do not place near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations.

**Always read container label for a complete list of uses and instructions.**
Zinc Phosphide Oat Bait

1 lb size

Zinc phosphide, a powerful acute rodenticide, is contained in all Prozap rodent bait formulations. The fast-acting baits are formulated with a special blend of processed grains that are especially appealing to rodents.

- Controls moles and gophers
- Easy to apply and fast acting—perfect for the homeowner
- Contains an attractive protein concentration of 19–24%
- Bait uses food-grade, steam-rolled oat groats for improved palatability
- De-hulled groats will not germinate
- Intended for residential use only

Not for sale in CA, HI, IN, NC and NH

**Target Rodents** Applications

**Moles**
- Gophers

• Ball must be applied directly into mole and pocket gopher burrow systems.

• Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

• This product may only be used to control moles and pocket gophers in manual below ground applications.

• Do not apply in gardens where food or feed may become contaminated.

• Do not apply this product by use of an artificial burrow builder.

**Specific Directions for Moles:** Use of leftover bait must be effective against moles and gophers.

ACTIVc INGREDIENT:
- Zinc Phosphide ........................................... 2.00%

OTHER INGREDIENTS: ........................................ 98.00%

TOTAL INGREDIENTS: ...................................... 100.00%

**Zinc Phosphide Oat Bait 1 lb size is perfect for the homeowner. Bait is easy to apply and requires only minimal amounts to be effective against moles and gophers.**

**Prozap Oat Bait 1 lb size is perfect for the homeowner. Bait is easy to apply and requires only minimal amounts to be effective against moles and gophers.**

**Item No.**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>112855</td>
<td>1 lb jar</td>
</tr>
</tbody>
</table>

**Mole and Gopher 1 lb size**

- Kills moles and gophers right where they live—direct baiting to underground burrows, tunnels and mounds
- Fast acting; works within hours
- Attractive protein concentration of 19–24%
- Measuring scoop included for easy application
- Intended for residential use only

**Target Rodents** Applications

**Moles**
- Gophers

• Ball must be applied directly into mole and pocket gopher burrow systems.

• Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

• This product may only be used to control moles and pocket gophers in manual below ground applications.

• Do not apply in gardens where food or feed may become contaminated.

• Do not apply this product by use of an artificial burrow builder.

**Specific Directions for Moles:** The presence of moles may be indicated by a network of surface ridges in the turf, by a series of conical mounds of earth pushed up from deep burrows, or by damage to flower bulbs.

**Surface Ridges:** Prior to treatment, determine which burrows are active according to one of the following two methods: Either press down a small section of the tunnel or remove a 1 inch section of the tunnel’s roof. Mark these sections and check in 24 hours. The burrow is considered active if the flattened roadway has been raised up or if the roof has been repaired. Only treat active burrows. Carefully, with a long-handed spoon, punch a hole in the top of active tunnels, drop a teaspoon amount of this product and carefully close the hole with soil or stone. Do not collapse the roadway again or allow loose soil to cover the bait. After a few days check to see if the burrows are still active according to one of the two methods described above. If so, repeat treatment.

**Conical Mounds:** With a long-handed spoon carefully remove the center plug from each conical mound. Drop a teaspoon amount of this product into the underground tunnel. Close the opening with a rock or soil. Do not allow loose dirt to cover bait. If mole activity persists after one treatment, a second treatment may be made. If mole activity persists after two treatments, abandon use of this product and seek another method for controlling moles.

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**Conical Mounds:** With a long-handed spoon carefully remove the center plug from each conical mound. Drop a teaspoon amount of this product into the underground tunnel. Close the opening with a rock or soil. Do not collapse the runway again or allow loose soil to cover the bait. After a few days check to see if the burrows are still active according to one of the two methods described above. If so, repeat treatment.

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Zinc Phosphide Rodent Pellets AG 12 lb size

Prozap Zinc Phosphide Rodent Pellets AG provide rapid and economical control of large infestations of mice or rats in and around livestock and poultry buildings. Gophers can be effectively controlled with direct burrow application.

- Fast acting; works within hours
- So effective that 1–3 pellets is fatal to small rodents
- Pellets utilize a special hardening agent
- Contains an attractive protein concentration of 19–24%
- Contains less dust than the competitor formulations
- Can withstand 1.5" rainfall before melting
- Easily filters through vegetation

Use Prozap pellets for spot treatments in and around buildings, orchards and groves, vineyards, rangeland and non-crop areas such as lawns, ornamentals, golf courses, parks and nurseries.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>114600</td>
<td>12 lb bucket, 4 per case</td>
</tr>
</tbody>
</table>

**Target Rodents**

- **Moles**
  - Specific Directions for Moles: The presence of moles may be indicated by a network of surface ridges in the turf, by a series of conical mounds of earth pushed up from deep burrows, or by damage to flower bulbs.
  - Surface Ridges: Prior to treatment determine which burrows are active according to one of the following two methods: Either press down a small section of the tunnel or remove a one inch section of the tunnel’s roof. Mark these sections and recheck in 24 hours. The burrow is considered active if the flattened runway has been raised up or if the roof has been repaired. Only treat active burrows. Carefully, with a long-handled spoon, punch a hole in the top of active tunnels, drop a teaspoon amount of this product and carefully close the hole with sod or stone. Do not collapse runway again and do not allow loose soil to cover the bait. After a few days check to see if the burrows are still active according to one of the two methods described above. If so, repeat treatment.
  - Conical Mounds: With a long handled spoon carefully remove the center plug from each conical mound. Drop a teaspoon amount of this product into the underground tunnel. Close the opening with a rock or stone. Do not allow loose dirt to cover bait. If mole activity persists after one treatment, a second treatment may be made. If mole activity persists after two treatments, abandon use of this product and seek another method for controlling moles.
  - Flowering Bulb Protection (Fall Planted): Pack about one-quarter inch of soil against each flower bulb. Place several pellets at sides of and around the flower bulb. Then cover with soil.

**USE RESTRICTIONS**

- This product may only be applied at the use sites and by the application methods indicated on this label.
- Bait must be applied directly into mole and pocket gopher burrow systems.
- Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.
- This product may only be used to control moles and pocket gophers in manual, below-ground applications.
- Do not apply in gardens where food or feed may become contaminated.
- Do not apply this product by use of an artificial burrow builder.

**TARGET RODENTS**

- **Pocket Gophers**
  - Burrowing pocket gophers (Thomomys spp. and Geomys spp.) throw out low, fan shaped mounds on either side of their under-ground tunnels. These lateral tunnels coming to the surface are on the flat side of the fan and are plugged with soil. With a long-handled spoon carefully remove the plug. Insert a teaspoon of this product as far down as possible. Recheck opening being careful not to cover bait with soil.
  - Use Restrictions:
    - This product may only be applied at the use sites and by the application methods indicated on this label.
    - Bait must be applied directly into mole and pocket gopher burrow systems.
    - Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.
    - This product may only be used to control moles and pocket gophers in manual, below-ground applications.
    - Do not apply in gardens where food or feed may become contaminated.
    - Do not apply this product by use of an artificial burrow builder.

- **Norway Rats and Roof Rats**
  - Norway: Apply 1 to 2 teaspoon amounts of this product per placement. Maintain an uninterrupted supply of fresh bait until all signs of feeding have stopped.
  - Roof: Apply 1 teaspoon of bait at 8 to 12 foot intervals. Maintain an uninterrupted supply of fresh bait until all signs of feeding have stopped.
  - Use Restrictions:
    - This product may only be applied at the use sites and by the application methods indicated on this label.
    - Bait must be applied directly into mole and pocket gopher burrow systems.
    - Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.
    - This product may only be used to control moles and pocket gophers in manual, below-ground applications.
    - Do not apply in gardens where food or feed may become contaminated.
    - Do not apply this product by use of an artificial burrow builder.

**TARGET RODENTS**

- **House Mice**
  - House mice: Apply 1 to 2 teaspoon amounts of this product per placement. Maintain an uninterrupted supply of fresh bait until all signs of feeding have stopped.
  - Use Restrictions:
    - This product may only be applied at the use sites and by the application methods indicated on this label.
    - Bait must be applied directly into mole and pocket gopher burrow systems.
    - Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.
    - This product may only be used to control moles and pocket gophers in manual, below-ground applications.
    - Do not apply in gardens where food or feed may become contaminated.
    - Do not apply this product by use of an artificial burrow builder.
Zinc Phosphide Pellets

**ACTIVE INGREDIENT:**
Zinc Phosphide ........................................... 2.00%
OTHER INGREDIENTS: ...................................... 98.00%
TOTAL INGREDIENTS: ................................... 100.00%

For use in rangeland, pastures, alfalfa, timothy, barley, potatoes, wheat, sugar beets, sugarcane, grape vineyards, fruit and nut tree orchards, macadamia nut orchards, and around buildings, and other sites to control the species listed in the use directions.

**Did you know?**
Voles are often called meadow or field mice, but their stocky build and smaller eyes distinguish them from true mice.

For use in field applications:
- Controls voles, rats and mice, prairie dogs, kangaroo rats, and Columbian and Richardson’s ground squirrels
- Prozap pellets may be used in field applications
- May also be used on no-till corn, cucurbits, Christmas tree nurseries, potato crops and sugar beets
- Pellets utilize a special hardening agent
- Contains an attractive protein concentration of 19–24%
- Contains less dust than the competitor formulations
- Can withstand 1.5” rainfall before melting
- Easily filters through vegetation
- Has exclusive label uses
- Size and density of the ¼” Prozap pellet aids in application accuracy

**APPLICATIONS:**

**Alfalfa**
- Vole complex
- Applications must occur shortly after cutting of the hay and prior to the new growth attaining a length of 2 inches. Forage from treated areas must not be harvested until it reaches maturity. Do not apply within 30 days of harvest.
- Use in ID, OR, WA only

**Barley**
- Vole complex
- Do not apply post harvest or pre-plant.
- Do not apply within 50 days of harvest.
- Use in ID, OR, WA only

**Dry Beans**
- Prairie voles, meadow voles, house mice, deer mice, white-footed mice, thirteen-lined ground squirrels, banner-tailed kangaroo rats, Ord’s kangaroo rats and Merriam’s kangaroo rats
- Do not treat any area more than once per growing season. Do not apply within 30 days of harvest.
- Use in ID, OR, WA only

**Bushberries and Canberries**
- Prairie voles, meadow voles, pine voles
- Only apply in the dormant season (after final harvest and not later than the beginning of leaf emergence in the spring). Do not apply when ground is snow covered. Minimum preharvest interval is 70 days.
- Use in ID, OR, WA only

**Christmas Tree, Ornamental, Non-Bearing Fruit Tree Plantations and Nursery Stock**
- Prairie voles, meadow voles, pine voles
- None
- Use in ID, OR, WA only

**Cucurbits, Reduced Tillage and No-Till Corn Crop**
- Prairie voles, meadow voles, house mice, deer mice, white-footed mice, thirteen-lined ground squirrels, Ord’s kangaroo rats, banner-tailed kangaroo rats, Merriam’s kangaroo rats and cotton rats
- Only use equipment designed for in-furrow delivery and properly adjusted to avoid crushing pellets into pieces too small to be effective. Make 1 application at planting, or pre-planting, at a rate of 4–6 lbs. per acre.
- No broadcast baiting.

Refer to the application and usage guides on the following pages.
Grape Vineyards: Meadow voles, prairie voles, pine voles, white-footed mice and meadow jumping mice Do not broadcast bait pellets over growing crops when the pellets may lodge on the plant. Do not apply to bare ground. Yes; by cyclone seeder or by gloved hand. Broadcast pellets evenly on the ground between the rows by cyclone seeder or by hand. Apply pellets at a rate of 6–10 lbs. per acre. No state restrictions

Macadamia Nut Orchards and Adjacent Non-Crop Areas: Roof rats: Bait may be placed in bait stations on the ground or in stations in nut orchard trees. Place 1–2 teaspoons of bait in stations at the base of each tree and in each station in trees. Orchards may be treated up to 30 days prior to a harvesting round. May also place 1–2 teaspoons of bait in each burrow in the orchard—no pre-harvest interval is required provided nuts aren’t retrieved from burrows. Yes; by cyclone seeder or hand. Broadcast pellets evenly on the ground between the rows by cyclone seeder or by hand. Apply pellets at a rate of 5 lbs. per acre. Not to exceed four applications per year. No state restrictions

Orchards and Groves: Prairie voles, meadow voles, pine voles Apply during the dormant season, after harvest while the orchard or grove is in a non-bearing phase. Do not apply to bare ground. Spot baiting: Place 1 teaspoon of pellets in surface trails or at the mouths of holes leading to burrow systems. 2–4 bait spots should be made near the base of each infested tree. Use 2–3 lbs. per acre. Bait station: Place 2.5 oz under at least 2 established stations per tree. Stations should be established 2–3 months prior to the baiting period by placing 15”x15” pieces of asphalt shingles, fiberboard trays, wood or metal at the tree drip line. Yes; by air, cyclone seeder, or by gloved hand. Broadcast pellets evenly on the ground between the rows by cyclone seeder or by hand. Apply pellets at a rate of 6–10 lbs. per acre. No state restrictions

Potatoes: Vole complex Do not apply post harvest or pre-plant. Do not apply this product to potatoes within 30 days of harvest. Yes; by air or ground. Apply at a rate of up to 10 lbs. per acre, or 2 applications at the rate of up to 5 lbs. per acre. Maximum application rate is 10 lbs. per acre per year. Use in ID, OR, WA only

Rangeland: black-tailed, white-tailed and Gunnison’s in Western United States. Prairie dogs: Prebait for best acceptance. After all or most of the prebait has been eaten, apply pellets to only areas where prebait was consumed. Apply pellets by hand as a 6” bait spot on the edge of each mound. Apply at the rate of 1 teaspoon per bait spot during late summer or fall (July–December). Do not apply more than once during this period. Ground squirrels: Apply pellets by hand as a 6” bait spot on edge of mound in or adjacent feeding area. Apply at the rate of 1 teaspoon per bait spot. No broadcast baiting.

Rangeland and Non-Crop Areas: Ord’s kangaroo rat, banner-tailed kangaroo rat and Merriam’s kangaroo rat Place 1 tablespoon of pellets at 2 lo- cations on opposite sides of mounds. Attempt to place pellets in feeding runs near the entrance to burrows. No broadcast baiting. No state restrictions

Sugar Beets: Vole complex Do not apply bait post harvest or pre-plant. Do not apply within 30 days of harvest. Yes; by air or ground. Apply at a rate of up to 10 lbs. per acre at planting. A second application may be made at this rate. Max application rate per year is 20 lbs. Use in ID, OR, WA only

Sugarcane: Polynesian, Norwegian, rice, Florida water, cotton and Roof rats: Prebait for best acceptance. Do not apply within 30 days of harvest. Do not apply to adjacent noncrop areas. Total number of applications must not exceed 4 per crop period, and the total amount shall not exceed 20 lbs. per acre. Yes; by air or ground. Apply 5 lbs. of pellets per acre per treatment. No state restrictions

Timothy, Timothy/ Alfalfa for Hay and Timothy for Seed: Vole complex Do not apply to actively growing timothy and timothy/alfalfa mixtures. Do not apply within 60 days of harvest. A minimum of 158 days must pass between an application and any livestock foraging activity. Pellets applied shall not exceed 20 lbs. per acre. Yes; by ground equipment or gloved hand. Use at a rate of up to 10 lbs. per acre during crop dormancy. A max of 20 lbs. per acre may be applied annually. Use in ID, OR, WA only

Wheat: Vole complex Do not apply bait post harvest or pre-plant. Do not apply to wheat within 50 days of harvest. Yes; by air or ground. Apply at a rate of up to 6 lbs. per acre. A second application may be made within 25 days. The max application rate per year is 12 lbs. Use in ID, OR, WA only

Aldalfa, Lawns, Golf Courses and Other Non-Crop Areas: Plains pocket gophers, Southeastern pocket gophers, California ground squirrels, yellow-faced pocket gophers and Thomomys spp. Hand Baiting: Drop 1 teaspoon of bait into the main runway at each baited point. Cover the opening with soil to exclude light. Take care not to cover the bait with soil. Make 2–5 bait placements per burrow system, depending on mound density. Burrow Builder: Apply at a rate of 2–5 lbs. per acre. No broadcast baiting. No state restrictions

Lawn and Non-Crop Areas: Meadow voles, prairie voles, pine voles, thirteen-lined ground squirrels, California ground squirrels, Richardson’s ground squirrels Prebait to increase acceptance. Apply 1 teaspoon of pellets around each active burrow or runway. Allow pellets to fall through grass to ground surface but don’t apply to bare ground. Do not place pellets in piles. Do not apply on roads, over water, over or where plants are grown for food or feed. No broadcast baiting. No state restrictions

Non-Crop Rights-of-Way: California ground squirrels Prebait to increase acceptance. Use 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. Yes; by hand or ground. Broadcast pellets in a 10–15 ft. swath along rights-of-way using hand or ground-driven dispensing devices. Don’t exceed 6 lbs. per acre. Don’t 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 casual levee. No state restrictions

In and Around Buildings: Norway rats, roof rats and house mice Rats: Apply 1–2 teaspoons of bait per placement. Maintain an uninterrupted supply of fresh bait for at least 10 days. Mice: Apply 1 teaspoon of bait at 8–12 foot intervals. Maintain an uninterrupted supply of fresh bait for at least 15 days. Rats and Mice: Do not treat the same area with product at less than 30 day intervals. No broadcast baiting. No state restrictions
### Zinc Phosphide Oat Bait

**Zinc Phosphide**, a powerful acute rodenticide, is contained in all Prozap rodent bait formulations. The fast-acting baits are formulated with a special blend of processed grains that are especially appealing to rodents.

**Did you know?**

Ground squirrels live communally in burrows, which may reach 4 feet or more below ground. These extensive burrows can undermine building structures and roads. The ground squirrel’s feeding activities damage many fruit and nut trees, crops and ornamental plants.

**Prozap Rodent Bait Formulations**

The fast-acting baits are formulated with a special blend of processed grains that are especially appealing to rodents.

**Use Prozap Zinc Phosphide Oat Bait for**

- spot treatments in and around buildings, orchards and groves, vineyards, rangeland and non-crop areas.
- for broadcasting by ground spreader or aircraft in non-bearing orchards, sugar cane fields and specified non-crop areas.
- for broadcasting by ground spreader in vineyards.

**ACTIVE INGREDIENT:**

- Zinc Phosphide: 2.00%

**OTHER INGREDIENTS:**

- 98.00%

**TOTAL INGREDIENTS:**

- 100.00%

**RESTRICTED USE PESTICIDE**

Due to hazard to non-target species. For retail sale to and for use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator’s certification.

**Controls voles, rats, mice, prairie dogs, kangaroos and Columbian and Richardson ground squirrels**

**Bait uses food-grade, steam-rolled oat grains for improved palatability**

**De-hulled grains will not germinate**

**Kiln dried process eliminates germination and kills bacteria and mold**

**Contains an attractive protein concentration of 14–22%**

**Zinc Phosphide Oat Bait**

- Controls voles, rats, mice, prairie dogs, pocket gophers, kangaroo rats and Columbian and Richardson ground squirrels
- Bait uses food-grade, steam-rolled oat grains for improved palatability
- De-hulled grains will not germinate
- Kiln dried process eliminates germination and kills bacteria and mold
- Contains an attractive protein concentration of 14–22%

**Did you know?**

Ground squirrels live communally in burrows, which may reach 4 feet or more below ground. These extensive burrows can undermine building structures and roads. The ground squirrel’s feeding activities damage many fruit and nut trees, crops and ornamental plants.

<table>
<thead>
<tr>
<th>Application</th>
<th>Species Controlled</th>
<th>Use Restrictions</th>
<th>Baiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa and Timothy Hayfields</td>
<td>Meadow voles</td>
<td>Apply during the dormant season only. Bait must be placed in secured, tamper-resistant bait stations. Place bait stations in areas where meadow voles are foraging.</td>
<td>Place at least 4 oz. of bait per bait station. Maintain an uninterrupted supply of bait until stations are removed from fields. Remove stations before plant growth resumes in spring.</td>
</tr>
<tr>
<td>Alfalfa, Lawns, Golf Courses and Other Non-Crop Areas</td>
<td>Plains, Southeastern, yellow-faced and Thomsomy spp., pocket gophers</td>
<td>For subterranean applications only.</td>
<td>Hand Baiting: Locate underground runways. Drop 1 teaspoon of bait into the main runway. Cover the opening with soil, a rock or soil to exclude light. Do not cover the bait with soil. Make 2–5 placements per burrow system.</td>
</tr>
<tr>
<td>Grape Vineyards</td>
<td>Meadow, prairie and pine voles, white-footed mice and meadow jumping mice</td>
<td>Do not broadcast bait over growing crops when the bait may lodge on the plant. Do not apply to bare ground.</td>
<td>Apply at a rate of 6–10 lbs. per acre. Do not apply by air.</td>
</tr>
<tr>
<td>Macadamia Nut Orchards</td>
<td>Roof rats</td>
<td>Spot treatment: Uneaten bait must be removed from trees prior to shaker harvest or from ground prior to mechanized harvest. Orchard may be treated up to 30 days prior to harvesting. Burrow treatment: No preharvest interval is required provided nuts are not retrieved from burrows.</td>
<td>Spot Treatment: Bait must be placed in bait stations on the ground or in trees. Place 1–2 teaspoons of bait in bait stations.</td>
</tr>
<tr>
<td>Nursery Stock, Ornamental and Non-Bearing Fruit Trees</td>
<td>Meadow, prairie and pine voles</td>
<td>When broadcasting, concentrate treatment in areas with the heaviest vegetation cover. Do not broadcast bait on bare ground. Apply at a rate of 6–10 lbs. per acre. Hand baiting: near the base of the infested stock, place teaspoon quantities of bait in 2–4 locations, either on surface trails or at the mouths of holes leading to underground burrows. Do not allow bait to be exposed on bare ground. Do not disturb the runway system. Bait at a rate of 2–3 lbs. per acre.</td>
<td>When broadcasting, concentrate treatment in areas with the heaviest vegetation cover. Do not broadcast bait on bare ground. Apply at a rate of 6–10 lbs. per acre. Hand baiting: near the base of the infested stock, place teaspoon quantities of bait in 2–4 locations, either on surface trails or at the mouths of holes leading to underground burrows. Do not allow bait to be exposed on bare ground. Do not disturb the runway system. Bait at a rate of 2–3 lbs. per acre.</td>
</tr>
<tr>
<td>Orchards and Groves</td>
<td>Meadow, Prarie and Pine voles</td>
<td>Apply during the dormant season only. Bait on a mount of forage while the orchard or grove is in a non-bearing phase. Do not apply to bare ground.</td>
<td>Spot or Trail Baiting: Place 1 teaspoon of bait in surface trails or at the mouths of holes leading to underground burrows. Systems: Broadcast Baiting: by cyclone seeder or by gloved hand.</td>
</tr>
</tbody>
</table>

**Broadcast Baiting and Restrictions**

- No broadcast baiting.
- Yes; by ground or gloved hand.
- Yes; by cyclone seeder or hand.
- Yes; by cyclone seeder or hand.

**Item No.** 0002980

**Packaging** 50 lbs bag, 40 bags per pallet

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**TOTAL INGREDIENTS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Phosphide</td>
<td>2.00%</td>
</tr>
<tr>
<td>OTHER INGREDIENTS</td>
<td>98.00%</td>
</tr>
<tr>
<td>TOTAL INGREDIENTS</td>
<td>100.00%</td>
</tr>
</tbody>
</table>
Prairie dogs, Sugarcane Polynesian, and Non-Crop Rangeland Nurseries

Areas: Lawns, Ornamentals, Rights-of-Way Application where nontarget ground squirrels thirteen-lined, in AZ, CO, KS, Florida water, Norway, rice, MT, NE, NM, TX, UT and WY.

Columbian and Richardson’s ground squirrels

Prebait with 1 teaspoon of untreated oat groats per mound 1–2 days prior to using the oat bait. Apply bait by hand as a 6 inch bait spot on edge of mound or in adjacent feeding area. Apply at the rate of 1 teaspoon per spot.

No broadcast baiting.

Rangeland and Non-Crop Areas

Ord’s kangaroo rat, banner-tailed kangaroo rat and Merriam’s kangaroo rat

Do not apply within 30 days of harvest or adjacent to noncrop areas. Total number of applications must not exceed 4 per crop period, and the total amount applied shall not exceed 20 lbs. per acre.

To increase acceptance, broadcast 3 lbs. of untreated oat groats per acre 1–2 weeks prior to using the toxic bait. Apply 5 lbs. of toxic bait per acre per treatment.

Yes; by air, ground or gloved hand.

Sucarcane Polytenian, Norway, rice, Florida water, cotton and roof rats

Do not apply within 30 days of harvest or adjacent to noncrop areas. Total number of applications must not exceed 4 per crop period, and the total amount applied shall not exceed 20 lbs. per acre.

To increase acceptance, broadcast 3 lbs. of untreated oat groats per acre 1–2 weeks prior to using the toxic bait. Apply 5 lbs. of toxic bait per acre per treatment.

Yes; by air, ground or gloved hand.

Non-crop Rights-of-Way California ground squirrels and meadow, prairie and pine voles

Prebait to increase acceptance. Use on non-crop rights-of-way next to canals 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.

Broadcast bait in 10–15 ft. swath along rights-of-way using hand or ground-driven dispensing devices. Don’t exceed 6 lbs. per acre. Don’t 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.

Yes; by air, ground or gloved hand.

Hand Baiting in Non-Crop Areas: Lawns, Ornamentals, Golf Courses, Parks and Nurseries

Meadow, prairie and pine voles, thirteen-lined, California, Columbian or Richardson’s ground squirrels

Prebait to increase acceptance. Do not apply on roads, near residential areas, over water, or where plants are grown for food or feed.

Prebait with 1 teaspoon of untreated oat groats around each active burrow 2–3 days prior to using toxic bait. Then apply 1 teaspoon toxic bait around each active burrow or runway. Allow bait to fall through grass to ground surface, but do not apply to bare ground. Do not place bait in piles.

No broadcast baiting.

In and Around Buildings

Norway rats, roof rats and house mice

Apply bait in locations out of reach of children, pets, domestic animals and nontarget wild, or put in tamper resistant bait stations. For use in and around homes, industrial, and agricultural buildings and similar man-made structures. Do not contaminate food/feed or food/feed handling equipment. Do not place near or inside ventilation duct openings. Do not use in edible product areas or feed processing plants, restaurants, or other areas where food is commercially prepared or processed.

Rats: Apply 1–2 teaspoon amounts of bait per placement. Maintain an uninterrupted supply of fresh bait for at least 10 days.

Mice: Apply 1 teaspoon of bait at 8–12 ft. intervals. Maintain an uninterrupted supply of fresh bait for at least 15 days.

No broadcast baiting.

Diphacinone Bait 50 lb size

RESTRICTED USE PESTICIDE Weather-Resistant

Use Ramik Brown for the control of pine and meadow voles in apple, pear, peach and nectarine orchards and in nut orchards and Christmas tree farms, commercial nurseries and tree plantations. Also controls commensal rats and mice in terrestrial nonfood/non-feed areas.

Weather-resistant

Diphacinone bait effective against rats, mice and voles

Proven orchard product

Extruded formula spreads evenly and accurately

Apple flavored 1/4” nuggets

Item No. 003370 50 lb box

Applications: for listed states ONLY

Fruit Tree Orchards (Bearing and Non-Bearing) Aerial application is only permitted in the following states where aerial is listed next to the state name.

<table>
<thead>
<tr>
<th>Connecticut</th>
<th>Massachusetts</th>
<th>Montana - aerial</th>
<th>New Hampshire - aerial</th>
<th>Ohio - aerial</th>
<th>Oregon - aerial</th>
<th>South Carolina - aerial</th>
<th>West Virginia - aerial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington</td>
<td>South Carolina</td>
<td>Washington - aerial</td>
<td>Virginia - aerial</td>
<td>Vermont - aerial</td>
<td>Virginia - aerial</td>
<td>Washington - aerial</td>
<td>Missouri - aerial</td>
</tr>
</tbody>
</table>

Christmas Tree Farms, Commercial Nurseries and Tree Plantations

<table>
<thead>
<tr>
<th>Georgia</th>
<th>Michigan</th>
<th>Missouri</th>
<th>North Carolina</th>
<th>Pennsylvania</th>
<th>West Virginia</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Carolina</td>
<td>Michigan</td>
<td>South Carolina</td>
<td>Missouri</td>
<td>Washington</td>
<td></td>
</tr>
</tbody>
</table>

Also for the control of commensal rats and mice in terrestrial nonfood/nonfeed areas. There are no state restrictions for commensal rat and mice for such usages.

Use Restrictions

May only be used in and around (within 15 ft.) of homes, industrial, agri-cultural, public, port, and terminal buildings and similar man-made structures. May be used in transport vehicles (ships, trains, aircraft) and alleys. May also be used in river banks, irrigation ditches, gulles, railroad tracks, fences and sanitary landfills; however, all of the above placements must be in a tamper-resistant bait station or placed deeply into rat burrows.

Always read container label for a complete list of uses and instructions.
## Rodenticide Information by Active Ingredients

### Active Ingredients

<table>
<thead>
<tr>
<th>Active Ingredient</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brodifacoum</td>
<td>Anticoagulant</td>
<td>Havoc® offers better palatability, higher acceptability. Available in XT-blok and sweet corn-based chunks as well as 2nd generation. Death may occur within 4–5 days after a lethal dose is consumed. First new active introduced in the United States in over 16 years. Over two times as lethal to mice than Bromadiolone. Economical. Rodex contains micro-encapsulated Warfarin to improve palatability and acceptance. The hazard of secondary poisoning to non-target animals is lower when Rodex is used. Control high infestations quickly. stop feed action means that rodents stop feeding after a lethal dose has been ingested. Acute toxicant. Death may occur within 5 days after a lethal dose is consumed.</td>
</tr>
<tr>
<td>Diphacinone</td>
<td>Anticoagulant</td>
<td>Rampage Gunslinger Neurotoxicant 5.3–8.1 2.0–2.5 6.6 Old technology. Lacks palatability and is not economical.</td>
</tr>
<tr>
<td>Difenacoum</td>
<td>Anticoagulant</td>
<td>Hawk Boot Hill Anticoagulant 1.75 1–1.8 0.38 2nd generation. Salmonella may occur within 2 days after a lethal dose is consumed. Rodent continues to feed after lethal dose has been ingested.</td>
</tr>
<tr>
<td>Difenzoquat</td>
<td>Anticoagulant</td>
<td>Di-Kill® blocks are more palatable, and has a higher lethal dose than Hapicon.</td>
</tr>
<tr>
<td>Diphacinone</td>
<td>Anticoagulant</td>
<td>Di-Kill® blocks are more palatable, and has a higher lethal dose than Hapicon.</td>
</tr>
<tr>
<td>Difethialone</td>
<td>Anticoagulant</td>
<td>Hombre Anticoagulant 1.29 0.56 0.38 Not as cost-effective, and has a higher lethal dose than Havoc. Active is very similar to Ramik, but Hawk Boot Hill is fish flavored for higher acceptability. Hot-extruded nuggets are weather-resistant without wax. Food-grade ingredients are more palatable and have higher acceptability. Available in two pellet sizes and oat flakes. Also available in nuggets. Product is weatherability and acceptance of Ramik products. Pellets are not hot-extruded and lack the weatherability and acceptance of Ramik products.</td>
</tr>
<tr>
<td>Chlorethlate</td>
<td>Anticoagulant</td>
<td>Tomcat Anticoagulant 141.0–340.0 2.3–43.0 Economical. Rodex contains micro-encapsulated Warfarin to improve palatability and acceptance. The hazard of secondary poisoning to non-target animals is lower when Rodex is used. Control high infestations quickly. stop feed action means that rodents stop feeding after a lethal dose has been ingested. Acute toxicant. Death may occur within 5 days after a lethal dose is consumed.</td>
</tr>
<tr>
<td>Bromadiolone</td>
<td>Anticoagulant</td>
<td>Ramik is fish flavored for higher acceptability. Hot-extruded nuggets are weather-resistant without wax. Food-grade ingredients are more palatable and have higher acceptability. Available in two pellet sizes and oat flakes. Also available in nuggets. Product is weatherability and acceptance of Ramik products. Pellets are not hot-extruded and lack the weatherability and acceptance of Ramik products.</td>
</tr>
<tr>
<td>Cholecalciferol</td>
<td>Systemic</td>
<td>Eraze Ridall-Zinc Systemic 1.9–2.0 0.32 1.5–1.8 0.28 2nd generation. Salmonella may occur within 2 days after a lethal dose is consumed. Rodent continues to feed after lethal dose has been ingested.</td>
</tr>
<tr>
<td>Warfarin</td>
<td>Systemic</td>
<td>Rodex contains micro-encapsulated Warfarin to improve palatability and acceptance. The hazard of secondary poisoning to non-target animals is lower when Rodex is used. Control high infestations quickly. stop feed action means that rodents stop feeding after a lethal dose has been ingested. Acute toxicant. Death may occur within 5 days after a lethal dose is consumed.</td>
</tr>
<tr>
<td>Zinc Phosphide</td>
<td>Systemic</td>
<td>Prozap® is a high-performance zinc phosphide rodenticide. Economical. Good residual on concrete that protects against repeated infestations. Has a long action (can have a residual for up to 40 days).</td>
</tr>
</tbody>
</table>

## Bait Stations and Traps

### Rodent Café Bait Station
- Low-profile design for increased rodent activity
- High-capacity bait chamber built to allow horizontal and vertical bait placement
- Ramped entrance into bait chamber helps prevent any water from entering and affecting bait
- Heavy-duty design using thick-walled plastic—designed to withstand being stepped on without damage
- Rotating hinge design provides years of dependable service, unlike most stations that use a hinge permanently attached to the base
- Heavy-duty key and rod packs included
- Use with Ramik Mini Bars, Havoc-XT Chunks, Di-Kill Blocks or CyKill Block baits (sold separately)

### Multiplex™ High-Density Bait Station
- Perfect for use with Havoc-XT Blok bait (sold separately); fit up to eight 20-gram blocks per horizontal rod
- Vertical and hanging block layouts; vertical rods can withstand an inch of water
- Superior strength walls with overlapping cover edges that prevent “finger holds” for high tamper resistance
- Gray color keeps station cooler, resulting in less melted bait
- Can also house two standard mouse snap traps

### Tips for controlling rodents with bait stations
- Use enough stations. Ideally, bait stations should be placed every 20–50 feet around the exterior perimeter of livestock buildings, and on both sides of every doorway, or other easy building access points for rodents. For heavy rodent infestations, place stations every 20 feet.
- Keep bait fresh. After initially filling a bait station, check in seven days. Replace eaten bait and continue to check once a week for three weeks. After three weeks, check stations every 30 days, or as needed. Clean the station when necessary to keep the bait palatable to rodents.

---

**Bait Stations and Traps**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>000560</td>
<td>Rodent Café - case count 6</td>
</tr>
</tbody>
</table>

**Tips for controlling rodents with bait stations**

- Use enough stations. Ideally, bait stations should be placed every 20–50 feet around the exterior perimeter of livestock buildings, and on both sides of every doorway, or other easy building access points for rodents. For heavy rodent infestations, place stations every 20 feet.
- Keep bait fresh. After initially filling a bait station, check in seven days. Replace eaten bait and continue to check once a week for three weeks. After three weeks, check stations every 30 days, or as needed. Clean the station when necessary to keep the bait palatable to rodents.
Ramik® Rodent Bait Station
- Lockable and tamper-resistant
- Interior vertical rods for securing bait
- Two openings for rodents
- Use with Ramik Mini Bars, Havoc-XT Chunks, Di-Kill Blocks or CyKill Block baits (sold separately)

Item No.  Product
000500  Ramik Rodent Bait Station - case count 12
          Minimum order 1 case

Ramik station shown with Ramik Mini Bars bait; see pg. 6

Ramik® Glue Traps and Glue Boards
- Non-toxic, disposable and ready-to-use
- Traps without poisons, no additional baits needed
- Premium glue

Item No.  Product
116220  Ramik Mouse Glue Traps, 4 pack, 12 per case
116230  Ramik Rat Glue Traps, 2 pack, 12 per case
940     Ramik Mice and Insect Glue Boards, 4 pack, 16 per case

Ramik® Snap Traps
- Available in two sizes: rat (large) and mouse (small)
- One-touch trap setting is easy to set
- Touch-free rodent disposal
- Fill deep bait well with food or nesting material

Item No.  Product
116221  Ramik Mouse Snap Traps, 2 pack
116231  Ramik Rat Snap Trap, 1 pack

Catchmaster® Snap Traps
A new twist on an old standby. Our heavy duty snap traps now feature expanded triggers to make baiting and setting a snap.

Item No.  Product
602      Mouse Snap Traps, 2 pack, 36 per case
610      Rat Snap Trap, 1 pack, 12 per case

Audit Form

Form/Facility Name __________________________________________________________________________________
Date of Audit ______________________________________   Date of Last Audit __________________________________

Mark areas of concern on each house with an “x” and denote house number or name. “b” will denote bait station placement.

General Observations:

<table>
<thead>
<tr>
<th>Rodents Present</th>
<th>Droppings</th>
<th>Rodents Visible</th>
<th>Overall Infestation Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rats (Norway and Roof)</td>
<td>Y or N</td>
<td>Y or N</td>
<td>Low</td>
</tr>
<tr>
<td>Mice</td>
<td>Y or N</td>
<td>Y or N</td>
<td>Intermediate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area</th>
<th>Rodents Present</th>
<th>Activity Level</th>
<th>Bait Present</th>
<th>Monitoring Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrance (Doors/Frames)</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Walkways</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Perimeter (Burrows)</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Attics</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Insulation</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Feed Bins/Slabs</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Storage Room</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Cool Cell Room</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Rafters</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
<tr>
<td>Curtains (Sidewalls)</td>
<td>Y or N</td>
<td>1 2 3 4 5</td>
<td>Y or N</td>
<td>Y or N</td>
</tr>
</tbody>
</table>

Date of next audit:

General comments:
Include recommendations and house-specific follow up information

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