

# Biosecurity Rodent Control Product Guide

Control rodents | Reduce building repair costs | Lower feed costs

**LIPHA<sup>®</sup>TECH**

Advanced technology. Effective control.



# Biosecurity Rodent Control



**The answers to many problems are all in one pouch.**

## Industry-leading rodent control solutions. That's Liphatech.

Finding the most effective and efficient solutions for the world's rodent control problems — and helping its customers succeed — has made Liphatech, Inc. the industry leader.

No matter how complex or challenging a rodent control problem may be, animal producers have come to rely on Liphatech's quality, innovation and expertise.

Throughout its history, Liphatech has focused exclusively on the development and production of rodenticides and related rodent control products. The result? The industry's most advanced technology, along with a powerful commitment to deliver the highest levels of customer service. Our team of industry pros offer unmatched technical expertise and on-the-ground support as well.

Bolstered by ongoing research, our innovations have consistently set the standard for the rodent control industry. Liphatech's R&D successes include well-known and industry-leading products FastDraw®, Revolver®, Cannon™, Hombre®, BootHill®, Gunslinger®, Renegade™ and Aegis®.

## A history of advances.

**1976**

### **Bromadiolone**

Liphatech patented bromadiolone, a second-generation anticoagulant rodenticide that kills starting 4-5 days after one night's feeding, later branded under the BootHill® name.

**1988**

### **Difethialone**

Liphatech invented difethialone, a second-generation anticoagulant that kills mice and rats starting 4-5 days after a single night's feeding.

**1991**

### **Gunslinger®**

A bait with an acute active ingredient that provides a break from anticoagulants, reducing the potential for resistance in rodent populations.

**1996**

### **Hombre®**

The active ingredient difethialone is formulated into mini block and pellet formulations for the animal health markets.

## Our animal health mission.

Liphatech creates successful partnerships with animal producers by offering superior and innovative rodent control products.

We strive to consistently demonstrate prompt customer service to assist integrators in improving the quality of biosecurity programs and animal welfare.



Our products meet stringent requirements and go through a rigorous quality control process.



We are committed to ensuring each block, pouch, pellet and station meets the highest quality levels.

## We have innovation down to a science.

It all began in 1946 when Liphatech's original parent company began as a pharmaceutical company in France. Through the 1960s and 70s, Liphatech's research led to the development of two anticoagulants, chlorophacinone and bromadiolone.

The innovations continued at the state-of-the-art U.S. facility, which opened in 1987. Ongoing research there and in Europe resulted in the discovery of difethialone, another second-generation anticoagulant.

Since 2002, Liphatech has been a proud member of the De Sangosse group, a world-wide leader in manufacturing and distributing agrosupplies and pest control products. By providing global support, we are able to serve the pest control industry. As a global leader, Liphatech continues to invest substantial resources to research and develop the rodent control products of the future.



Our R&D facilities guarantee we are on the cutting edge of innovation.



Our most recent innovation, soft bait rodenticides, have revolutionized rodent control.

**2004**

**Aegis®-RP Bait Station**

Multiple uses, flexible mounting options and unmatched effectiveness in one complete quick-to-service package.

**2010**

**FastDraw®**

A soft bait rodenticide that provides effective results for the agricultural industry.

**2014**

**Revolver®**

The most widely used active ingredient, bromadiolone, becomes available to the agricultural industry as a soft bait rodenticide.

**2016**

**Cannon™**

The world's first bromethalin soft bait, providing convenient control; rodents may take 48 hours or more to die.

# Biosecurity Rodenticides

Active ingredients that work.

## Difethialone (Liphatech exclusive)

- Second-generation anticoagulant; vitamin K<sub>1</sub> is the antidote
- Formulated at 25 ppm; rodents may consume a lethal dose in a single night's feeding



### Perfect for knocking down large or small rodent populations

- Palatable means feeding and results
- 10g (0.35 oz.) soft bait pouches
- Available in 8 lb. and 16 lb. pails



### Available in multiple formulations that get results

- 20g mini blocks have multiple edges to encourage feeding; available in 20 lb. pails and 10 lb. pails
- Palatable to mice and rats
- Bulk pellets and 25g place packs are great for controlling rodents where pellet hoarding is not a concern



### The only meal bait available with the active ingredient difethialone

- Labeled for use in Norway rat burrows
- Palatable formulation
- Available in 25 lb. pails and 50 lb. cases; scoop included for ease of use and measured dosing
- Use in areas where non-target animals cannot access bait

## Bromadiolone (Liphatech invented)

- Second-generation anticoagulant; vitamin K<sub>1</sub> is the antidote
- Formulated at 50 ppm; rodents may consume a lethal dose in a single night's feeding



### SOFT BAIT



### A great soft bait rotation partner when switching from FastDraw

- 12g (0.42 oz.) soft bait pouches
- Available in 8 lb. and 16 lb. pails
- Provides knockdown of rodent populations
- Use in bait stations or to target the tight placements where rodents live



### Great rotation options for any biosecurity program

- 1 oz. mini blocks can be easily secured in tamper resistant bait stations
- Bulk paraffinized pellets and 1.5 oz. pellet place packs resist moisture and are your best choice for baiting Norway rat burrows
- 1 lb. paraffin bars for tough wet weather conditions



## Bromethalin

- Acute active ingredient
- Formulated at 100 ppm; rodents may take 48 hours or more to die



### Simple, effective control without the need to mix meal bait and pellets

- Use during de-population and clean-out periods
- Gets results, rodents may take 48 hours or more to die
- A great rotation partner when switching from Revolver or BootHill
- Easy-to-use 8g soft bait pouches
- Available in convenient 4 lb. bags



**GUNSLINGER<sup>®</sup>**

- Use during de-population and clean-out periods
- Gets results, rodents may take 48 hours or more to die
- Prevents anticoagulant resistance by providing a break from anticoagulant baits
- Stop-feed action due to rapid onset of symptoms
- 0.5 oz. mini blocks available in 4 lb. pails

### Quick tips for clean-out baiting.

- Remove accessible sources of feed from your production building
- Determine areas of high rodent traffic such as along walls, gnawed openings, in corners, between floors or walls, beside burrows, or locations where signs have been observed
- Frequently inspect placements and replenish bait at sites where there is evidence of heavy feeding or where there is continued evidence of rodent activity
- Replace contaminated or spoiled bait immediately
- Continue baiting until all signs of feeding have ceased

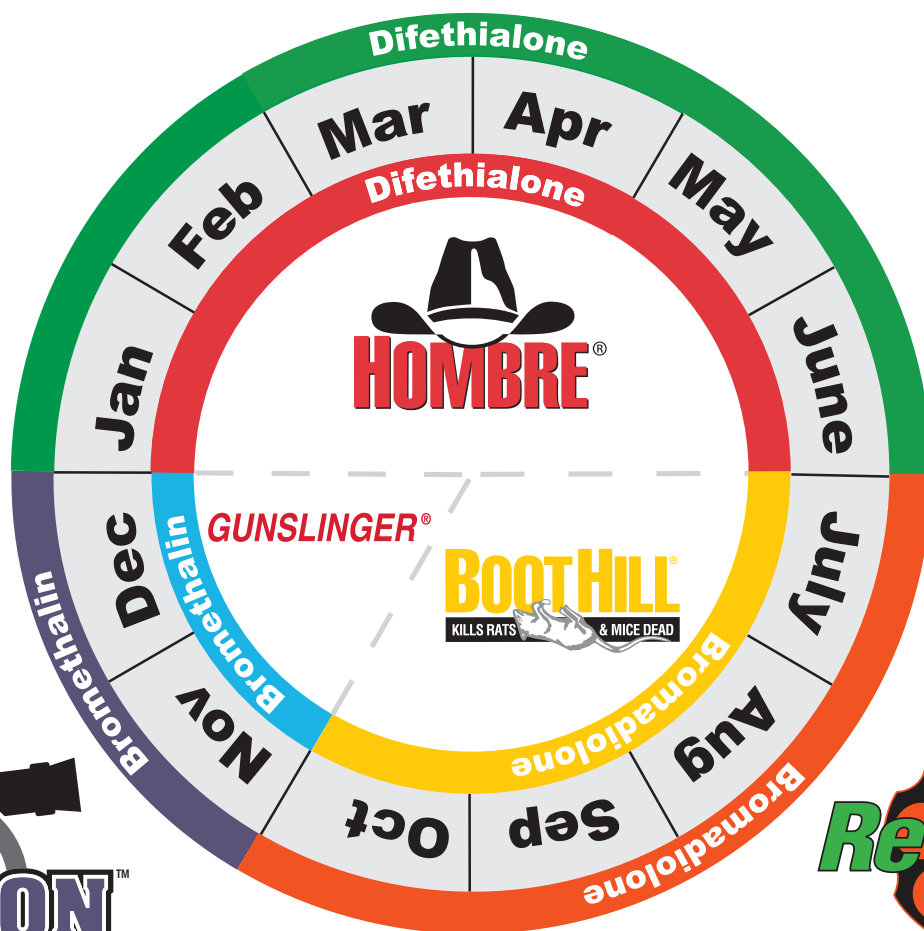
# Your Biosecurity Rotation

**3 Rotational Options. 3 Active Ingredients. Liphatech.**

**FASTDRAW®**

FastDraw takes 4-5 days to work.

**SOFT BAIT**



**SOFT BAIT**



**SOFT BAIT**

**Your single source for optimal rotations and rodent control.**

Liphatech's Rodent Reference Guide can help you identify the level of your infestation and solve your rodent problem. For more information, including the Rodent Reference Guide or product information sheets, SDS and specimen labels, visit [liphatech.com](http://liphatech.com).

# Aegis® Bait Stations

## The foundation of any baiting program.

- Reduces replacement costs; strong rotating hinges secure lid and operate down to -20 degrees for a long service life
- Fast to service, minimizing labor costs
- Versatile stations that can be placed vertically or horizontally
- Aegis-RP and Aegis-RP Anchor lids open away from the wall, making cleaning and baiting fast and easy
- See-through design keeps rodents on their natural path, causing them to enter and feed
- Available in locking and non-locking models
- Tamper-resistant keyed models prevent access by people, non-target pets and comply with FDA standards
- Vertical and horizontal bait rods securely anchor rodenticides
- Drain holes keep bait drier and more palatable
- Knockout anchor points provide flexible securing options



### Aegis®-RP

- Compact size
- Mount vertically or horizontally
- Opens away from the wall
- See-through design
- Accommodates rodent traps
- 6 stations per case



### Aegis®-RP Anchor

- Pre-assembled, saving labor costs
- Building-grade 12.5 lb. concrete base prevents dislocation
- 2 stations per case or 108 stations per bulk pallet



### Aegis® Rat

- Available in black, white (cool box) or black with a clear lid
- Double-tunnel design for improved bait consumption
- 6 stations per case



### Aegis® Mouse

- All black or with clear lid
- Holds twice the capacity of most mouse stations
- Designed to hold soft bait
- 12 stations per case

See-through design improves rodent entry.



Rotating hinges are long-lasting.



The flexible Aegis-RP and Aegis-RP Anchor can be vertically mounted in tight locations.



Other bait stations break after little use and in cold weather.



# Biosecurity Rodent Control



Remove all debris and thick vegetation adjacent to buildings. A three-foot rock perimeter prevents harborage of rodents and foundation burrowing.



Remove feed and water sources that keep rodent populations alive.

## Inspection and prevention measures.

These simple yet important practices can significantly increase your rodent control effectiveness:

- Start from the exterior and work yourself inside
- Carefully and thoroughly inspect interior and exterior walls, areas above ceilings, curtains, and other spaces where rodents might hide or live
- Look for signs of rodent damage and traffic like nesting areas, entry and exit points, building damage, and feces
- Once rodent nesting and feeding locations are determined, intercept their runways with a fresh, constant supply of Liphatech rodenticide
- Maintaining a year-round rodenticide rotation helps your rodent population remain resistance-free



Place Aegis bait stations stocked with fresh rodenticide near burrows, damaged curtains, runways or other signs of activity.

Contaminated Feed.



Curtain Damage.



Foundation Burrowing and Damage.

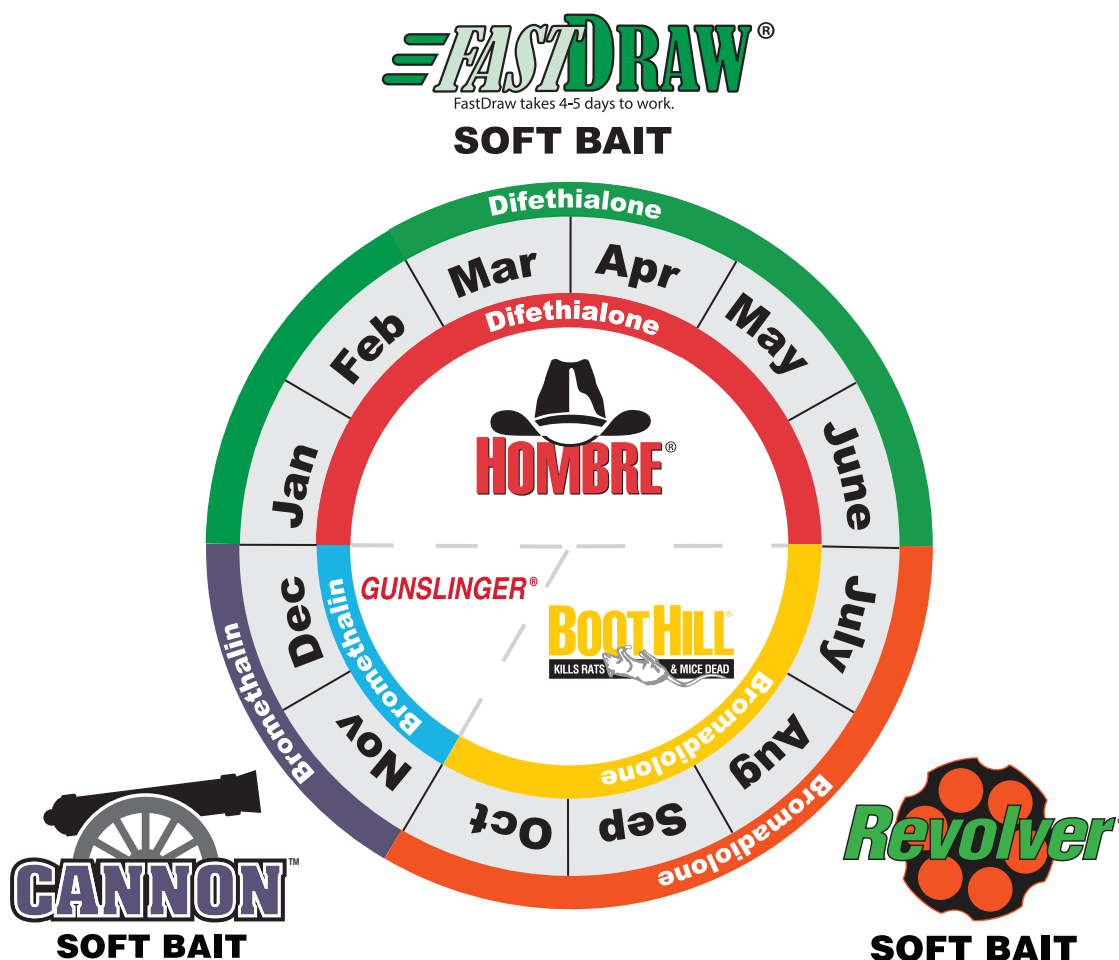


Gnawed Electrical Wiring.



# Rodent Infestations are a Critical Biosecurity Threat

Knock rodent populations down with Liphatech rodenticides, farm-tested solutions that work.



**Do you have a question or a stubborn rodent infestation?**

Contact your local Liphatech Sales Representative for expert guidance on how to get your biosecurity rodent control program within regulations. You can find them and more at **[liphatech.com](http://liphatech.com)**.

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