



Biosecurity Rodent Control Product Guide

- **Control Rodents**
- **Reduce building repair costs**
- **Lower feed costs**

LIPHATECH®

Advanced technology. Effective control.

Biosecurity Rodenticides



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 the quality, innovation and expertise of Liphatech.

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 and technical support.

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[®] and Aegis.[®]

A history of advances

1976

Bromadiolone

Our first 2nd generation anticoagulant rodenticide that kills in one night's feeding, later branded under the BootHill name, patented by Liphatech.

1988

Difethialone

Liphatech invented Difethialone, a second generation anticoagulant rodenticide that kills mice and rats in a single night's feeding.

1991

Gunslinger[®]

Utilizes an acute active ingredient that breaks the anticoagulant resistance in rodenticide bait rotations.

1996

Hombre[®]

The active ingredient Difethialone is formulated into a mini block and pellet formulation for the animal health markets.



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



Every employee ensures each block, pouch, pellet and station meets the highest quality levels.



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



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

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.



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 Milwaukee facility, which opened in 1987. Ongoing research there, and in Europe, resulted in difethialone, the industry's most recently discovered second generation anticoagulant.

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

2004

Aegis®-RP Bait Station

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

2010

FastDraw®

The agricultural industries' soft bait rodenticide, providing effective results.

2012

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, provides convenient control in as little as 48 hours after a lethal dose.

Difethialone (Liphatech exclusive)



8 lb. pail

16 lb. pail

FASTDRAW[®]
Takes 4-5 days to work.
SOFT BAIT

Perfect for knocking down large or small rodent populations!

- 10 gram (0.35 oz.) pouch.
- Palatable means acceptance & results

- Second generation anticoagulant
- Formulated at 25 PPM, rodents may consume a lethal dose in a single night's feeding



HOMBRE[®]

Best mini-block for great results!

- 20 gram mini-blocks have multiple edges to encourage feeding
- Palatable to mice and rats
- Bulk pellets & 25 gram place packs – great for controlling rodents where pellet hoarding is not a concern

Bromadiolone (Liphatech patented)



8 lb. pail

16 lb. pail

Revolver[®]
SOFT BAIT

A great rotation partner when switching from FastDraw!

- 12 gram (0.42 oz.) pouch.
- Provides knockdown of rodent populations
- Use Revolver in a bait station, or when you need to target tight placements where rodents live

- Second generation anticoagulant, rodents may consume a lethal dose in a single night's feeding
- Formulated at 50 PPM



BOOT HILL[®]
KILLS RATS & MICE DEAD

A great rotation partner in any biosecurity program!

- 1 oz. mini-blocks can be easily secured in a tamper resistant bait station
- Bulk paraffinized pellets & 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



Available in 4 lb. bags

GUNSLINGER®



- Use during de-population and clean-out periods
- Prevents resistance by breaking the anticoagulant baiting cycle
- Results - first rodent deaths occur in as little as 48 hours
- 0.5 oz. mini-blocks, packaged in 4 lb. pails
- Stop-feed action due to rapid onset of symptoms

- **Simple, effective control - NO MORE MIXING MEAL BAIT & PELLETS!**
- **Convenient**
- **Easy-to-use 8 gram placements**
- **Kills rodents in as little as 48 hours**
- **Use during de-population and clean-out periods**
- **A great rotation partner when switching from Revolver or BootHill**



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.

Aegis® Bait Stations

The foundation of any baiting program.

- Reduces replacement costs - strong rotating hinges secure lid and operate down to -20 degrees for long service life
- Fast to service - minimizing labor costs
- Versatile - can be placed vertically or horizontally
- Aegis® - RP lids open away from the wall making cleaning and baiting fast & easy
- Straight through design keeps rodents on their natural paths, causing them to enter and feed
- Available in locking and non-locking
- Tamper-resistant keyed models, prevent access by people, non-target pets and complies 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 / case



Aegis® - RP Anchor

- Preassembled saving labor costs
- Weighs 12.5 lbs preventing dislocation
- 2 stations / case or 108 station bulk pallet

Aegis® Mouse

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



Aegis® Rat

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

See through design improves rodent entry

Rotating hinges are long lasting

The AEGIS-RP provides flexible on-edge, vertical mounting for 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 3 foot rock perimeter prevents harborage of rodents and foundation burrowing



Remove feed and water sources that keep rodent populations alive

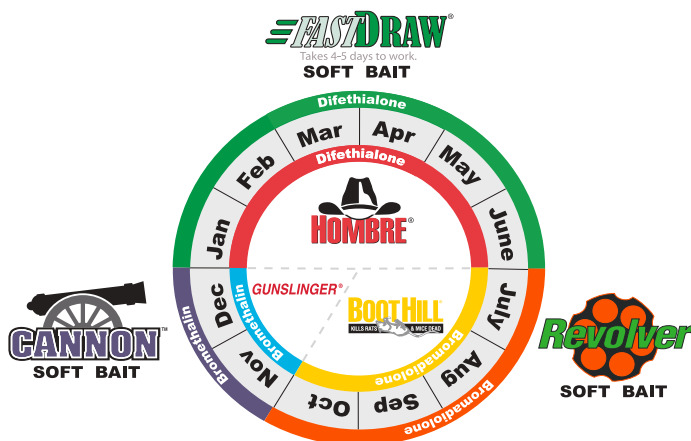


Place AEGIS® bait stations stocked with fresh rodenticide near burrows, damaged curtains, runways or other signs of activity

Inspection & Prevention Measures

These simple yet important practices can significantly increase your rodent baiting's 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 & 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
- Following the preventative steps above, and referring to Liphatech's Rodent Reference Guide, can also help identify the level of your infestation and solve your problem
- Maintaining a year-round rodenticide rotation helps your rodent population remain resistance free



3 Rotational Options, 3 Active Ingredients, Liphatech

For more information such as the Liphatech Rodent Reference Guide, informational sheets, SDS or Specimen labels, log on to www.liphatech.com

Contaminated Feed



Curtain Damage



Foundation Burrowing & Damage



Gnawed Electrical Wiring

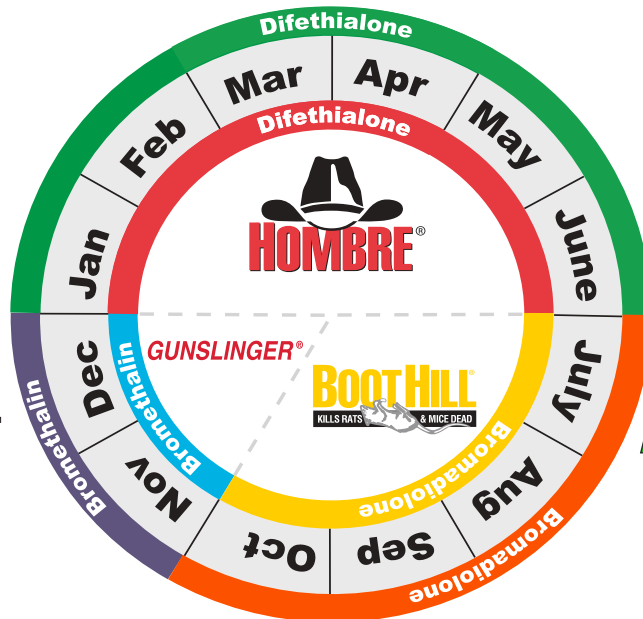


Rodent infestations are a critical biosecurity threat!

Knock rodent populations down with Liphatech Rodenticides, farm-tested solutions that work!



FASTDRAW
Takes 4-5 days to work.
SOFT BAIT



Do you have a question or a stubborn rodent infestation?

Contact Liphatech's sales team, your rodent control experts! We can provide you expert guidance towards taking the proper steps to get your biosecurity rodent control program within regulations.

CANNON
SOFT BAIT

Revolver
SOFT BAIT

3 Rotational Options, 3 Active Ingredients, Liphatech

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LIPHATECH
Advanced technology. Effective control.