

# Biosecurity Rodent Control Product Guide

Control rodents | Reduce building repair costs | Lower feed costs



# Mission Innovation



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.



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.

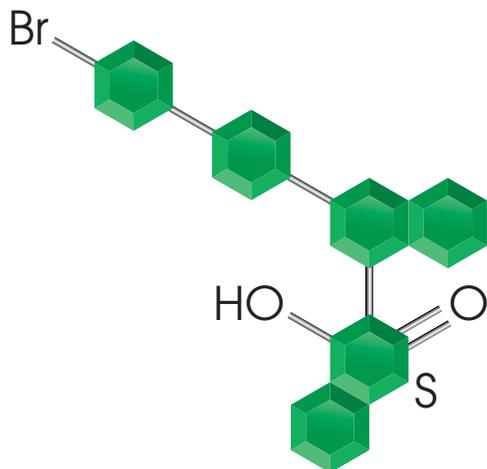
It all began in 1946 when Liphatech's original parent company began as a pharmaceutical company in France. Through the 1960s and 70s, Liphatech's research led to the development of two anticoagulants, chlorophacinone and bromadiolone.

The innovations continued at the state-of-the-art 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.

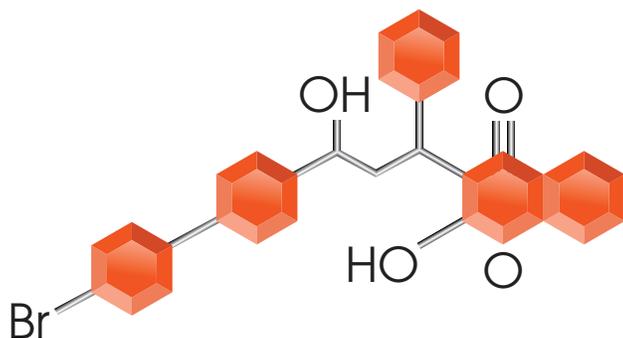
## Active Ingredients & Innovations

Liphatech developed three of the rodent control industry's active ingredients – chlorophacinone and bromadiolone, as well as difethialone – a Liphatech exclusive.



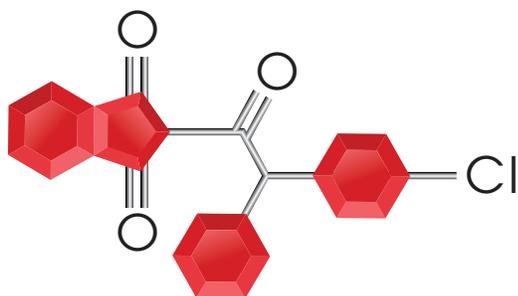
### Difethialone

Active ingredient (25 ppm) in FastDraw<sup>®</sup>.  
Second-generation anticoagulant exclusive to Liphatech; vitamin K<sub>1</sub> is the antidote.



### Bromadiolone

Active ingredient (50 ppm) in Revolver<sup>®</sup>.  
Popular second-generation anticoagulant invented by Liphatech; vitamin K<sub>1</sub> is the antidote.



### Chlorophacinone

Active ingredient (50 ppm) in DoubleTap<sup>™</sup>.  
A first-generation anticoagulant invented by Liphatech; vitamin K<sub>1</sub> is the antidote.

# Biosecurity Rodent Control



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

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

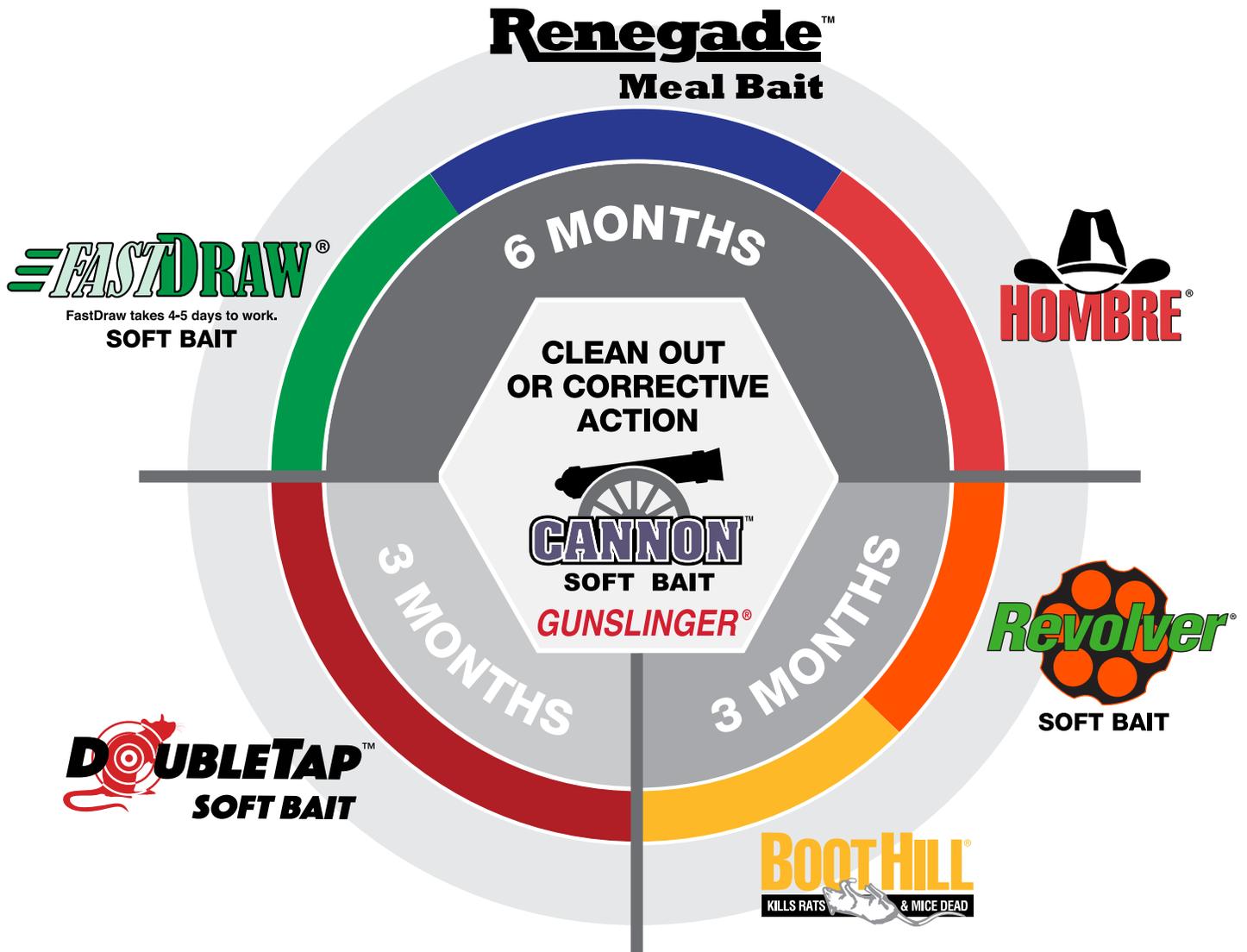
Finding the most effective and efficient solutions for the world's rodent control problems — and helping its customers succeed — has made Liphatech, Inc. the industry leader.

No matter how complex or challenging a rodent control problem may be, animal producers have come to rely on Liphatech's quality, innovation and technical 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 level 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™, DoubleTap™, Hombre®, BootHill®, Gunslinger®, Renegade™ and Aegis®.

# Your Biosecurity Rotation



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).

# Biosecurity Rodenticides

## 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
- Kills rodents starting 4-5 days after they have consumed a lethal dose

**FASTDRAW**<sup>®</sup>

FastDraw takes 4-5 days to work.

**SOFT BAIT**



### Controls rodent populations

- Maintains integrity in hot environments
- 10g (0.35 oz.) soft bait pouches
- Available in 8 lb. pails (approx. 364 placements) and 16 lb. pails (approx. 727 placements)
- Secure like conventional blocks in bait stations or placed directly in tight, hard-to-reach places where rodents live and blocks won't fit

**HOMBRE**<sup>®</sup>



### Available in multiple formulations that get results

- 20g mini blocks have multiple edges to encourage feeding; available in 20 lb. pails (approx. 454 blocks) and 10 lb. pails (approx. 227 blocks)
- Palatable to mice and rats
- 20 lb. bulk pellet pails and 200 count 25g place pack pails are great for controlling rodents where pellet hoarding is not a concern

**Renegade**<sup>™</sup>  
**Meal Bait**



### 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

# Active ingredients that work.

## 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
- Kills rodents starting 4-5 days after they have consumed a lethal dose



### SOFT BAIT



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

- 12g (0.42 oz.) soft bait pouches
- Available in 8 lb. pails (approx. 302 placements) and 16 lb. pails (approx. 604 placements)
- Bring infestations under control
- Maintains integrity in hot environments
- 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. Available in 10 lb. pails (approx. 160 placements) and 20 lb. pails (approx. 320 placements)
- Bulk paraffinized pellets and 1.5 oz. pellet place packs resist moisture and are your best choice for baiting Norway rat burrows. Pellet place packs are available in 90 count and 150 count pails, bulk pellets are available in 20 lb. pails.
- 1 lb. paraffin bars for tough wet weather conditions

# Biosecurity Rodenticides

## Chlorophacinone (Liphatech invented)

- First generation anticoagulant
- Vitamin K<sub>1</sub> is the antidote

**DOUBLETAP™**  
**SOFT BAIT**



### A first gen for the next gen

- DoubleTap is a multiple-feed anticoagulant rodenticide, formulated at 50 ppm
- Best choice for everyday use to help stop damage caused by rodents
- Bait is packaged in conveniently sized 28g soft bait pouch
- Pouches can be quickly secured with bait rods or feeding devices
- Bait may be removed from pouch and placed in a feeding device
- Available in 4 lb. individual bags (approx. 64 placements)



**BLUE TRACKING POWDER**



### Use when other formulations may not be appropriate, such as inside wall voids, tight attic spaces, or manure pits

- For areas inaccessible to non-targets, and where rodents cannot transport it to accessible areas
- Adheres to rodent's feet and fur
- Apply into rat burrows along the periphery of buildings, in patches along rodent runways, and in spaces between floors and walls; see label for other treatment areas
- Restricted Use Pesticide
- Formulated at 2,000 ppm
- Available in 10 lb. pails, 4 pails per case

# Active ingredients that work.

## Bromethalin

- Acute active ingredient
- Formulated at 100 ppm; rodents may take 48 hours or more to die after they have consumed a lethal dose



### 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 (approx. 227 placements)



**GUNSLINGER®**



### For use when other animals are not present and animal feed can be removed as a competing source

- 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 (approx. 130 placements)

# Aegis® Bait Stations

## 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.



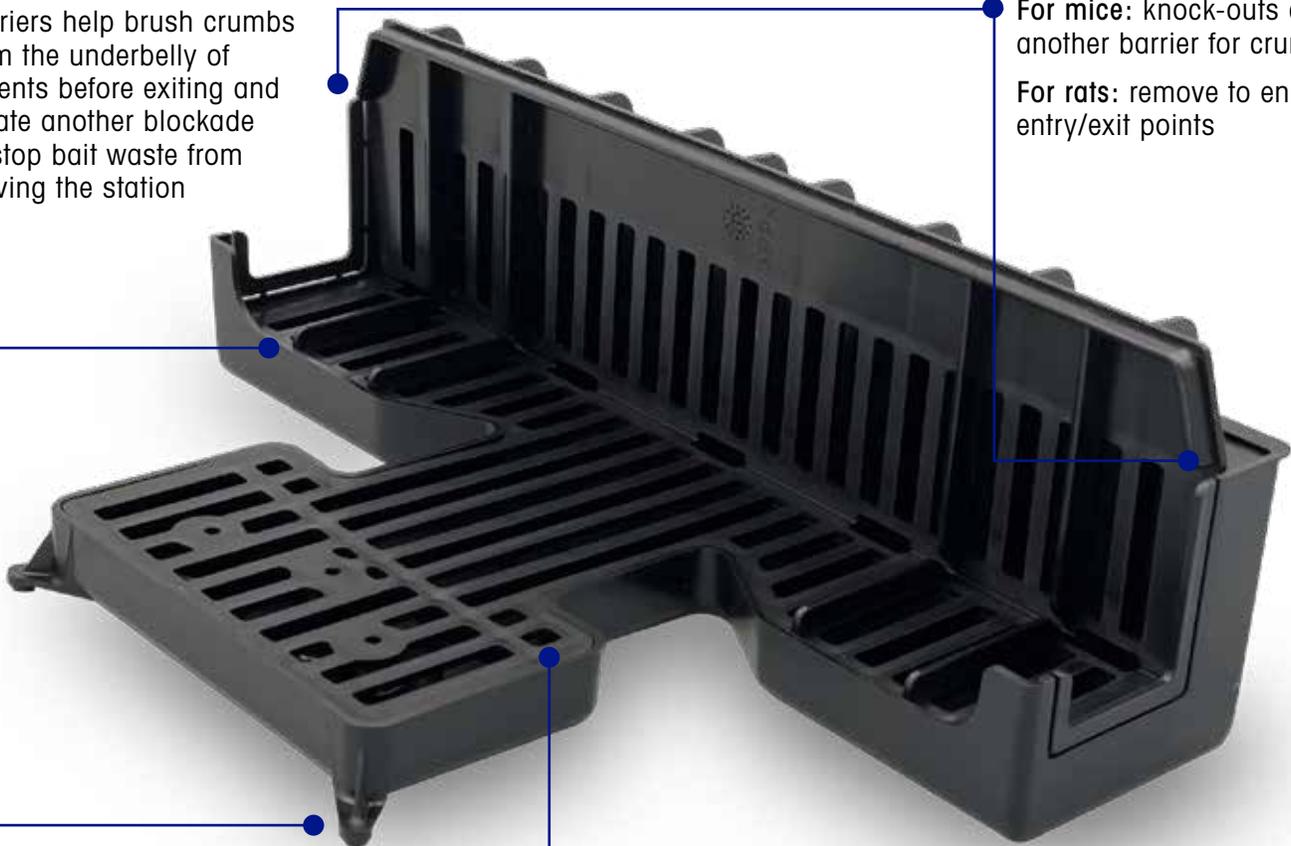
## Would you like to reduce the risk of baiting rodents?

The Aegis Risk Reducer can lessen the rodenticide crumb-out outside of an Aegis-RP bait station and reduce the risk of bait exposure to non-target animals.

Barriers help brush crumbs from the underbelly of rodents before exiting and create another blockade to stop bait waste from leaving the station

For mice: knock-outs create another barrier for crumbs

For rats: remove to enlarge entry/exit points



Plugs Aegis-RP drain holes to reduce crumb out

Removable grate allows you to easily clean catch the basin

Sold in cases of 6 Risk Reducers

**For use in Aegis-RP Bait Stations  
Can be used vertically or horizontally**

**Easy to clean catch basin holds bait  
crumbs & paper shreds**



# 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

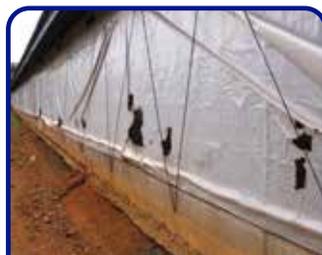


Place Aegis bait stations stocked with fresh rodenticide near burrows, damaged curtains, runways or other signs of activity.

Contaminated Feed.



Curtain Damage.

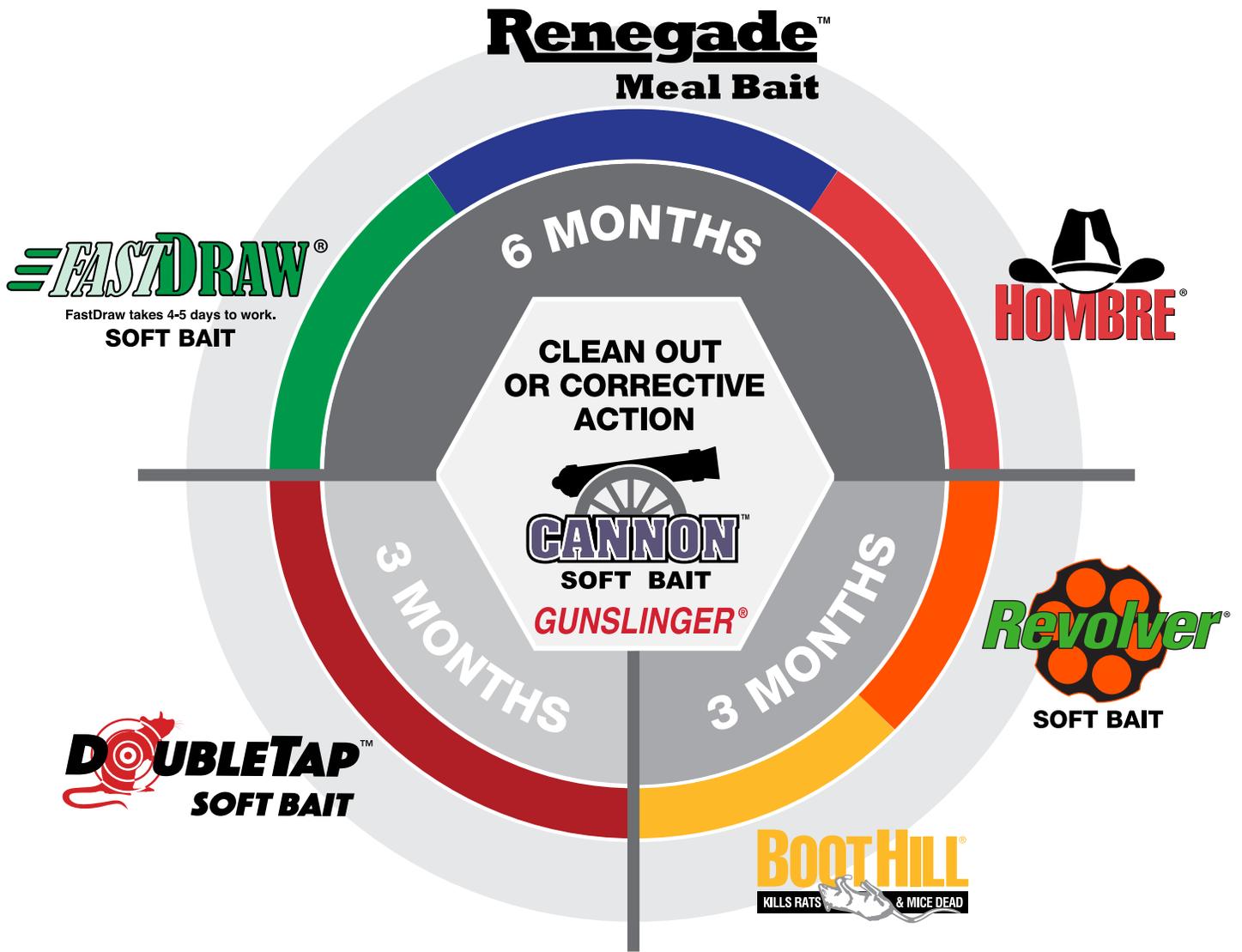


Foundation Burrowing and Damage.



Gnawed Electrical Wiring.





**Your new rotation for year-round control  
and everyday maintenance.**

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

# Unmatched Technical Support



Do you need help with a stubborn rodent infestation or technical employee training?

Contact Liphatech today!

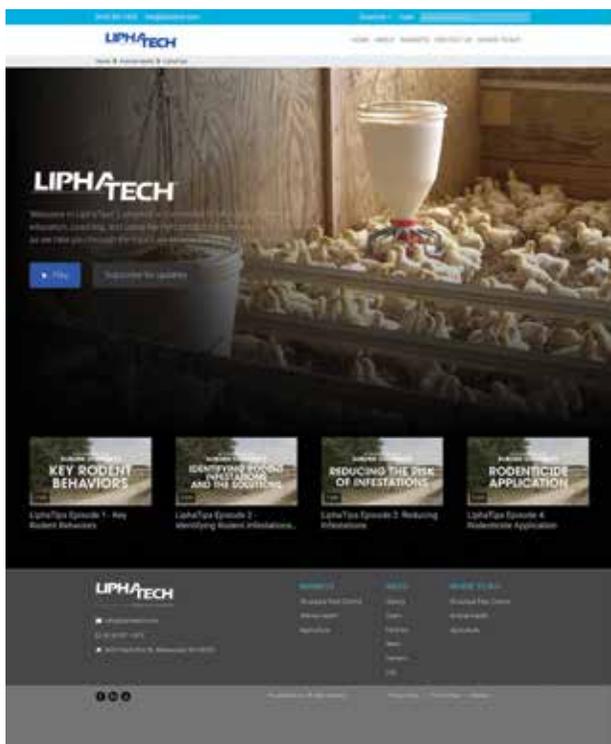
As the National Technical Support Manager for Liphatech's Agriculture Division, my mission is to provide unparalleled service and support to our customers. I am a licensed pesticide applicator and spent 19 years working in live poultry production prior to joining Liphatech. I provide on-site inspections at farms, feed mills, and other live production facilities where rodent problems persist. In addition to these facility inspections, I also offer technical classroom and field training for employees.

A handwritten signature in black ink that reads "Jason".

Jason Price  
National Technical Support Manager

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Learn more at the [LiphaTips webpage](https://liphatech.com/animal-health-biosecurity/liphatips)

Liphatech is committed to helping customers through education, coaching, and using the right products for the situation. LiphaTips is your go-to source for educational rodent control videos, touching on the questions and problems we receive most from our customers. Follow along to sharpen your rodent control skills.

[liphatech.com/animal-health-biosecurity/liphatips](https://liphatech.com/animal-health-biosecurity/liphatips)

# Pro Tips

## 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



## The benefits of Aegis bait stations.

- Reduces replacement costs; strong rotating hinges secure lid and operate down to -20 degrees F 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



## Want more pro tips?

Get rodent control tips and best practices delivered right to your inbox with the Liphatech Tips newsletter. Ask your Liphatech sales rep to add your email address to the list.



Contact your local Liphatech Sales Representative or Liphatech's Technical Support Manager, Jason Price, 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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