PestXpert
NEWS & ADVICE
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Resistance is futile

NEW

Rodilon®

Bayer launches powerful second generation rodenticide with no known resistance.

Bayer has launched a pioneering new single feed, second generation range of rodenticides called Rodilon®.

The new revolutionary rodenticide range recently launched at Cereals in June, has four highly palatable formulations ideal for every indoor situation.

First new active in 20 years

Containing the first new active ingredient to be introduced to the UK in over 20 years, Difethialone, which is exclusive to Bayer in the UK, Rodilon® will control rodents that are resistant to the active ingredients bromadiolone and difenacoum. Highly palatable, Rodilon® is effective after just one feed.

"Our focus is always on innovating and bringing new solutions to market," explained Bayer's product manager, Claire Matthewman. "Containing a second generation pioneering active ingredient, Rodilon® is a radical new and highly effective solution for controlling rats and mice, in particular those ones that have developed a resistance to the existing options available."

Bayer has created four convenient and extremely palatable baiting formulations of Rodilon®. Two of the products, Rodilon® Wheat Tech and Rodilon® Trio benefit from a unique 'Turbo Impregnation' manufacturing process that infuses the active ingredient right to the core of the bait. Not only does this offer superior rat and mouse control but it also means the operator is subjected to minimal risk from dust.

Developed specifically for the control of mice, Rodilon® Trio incorporates oats, sunflower seeds and maize, which are known to be particularly palatable to mice. Despite mice removing the husk of the grain before eating, the process of 'Turbo Impregnation' ensures that the core still contains the active ingredient.

Ideal for rat control, Rodilon® Wheat Tech uses the highest quality whole wheat grain making it extremely palatable

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Bayer CropScience

PROTECTING TOMORROW ...TODAY

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PRODUCT NEWS

Maxforce® Quantum receives extension of use

Maxforce® Quantum, Bayer's gel bait for ant control has now been granted approval to be "used on lawns in an ant bait station".

This new approval extends Maxforce® Quantum's broad use areas which also include domestic premises and public buildings, food handling and preparation areas, storage sites and outdoor situations.

Since its launch in 2009, Maxforce® Quantum has quickly established itself as a premium ant control product controlling all major ant species for up to 3 months after application.

This extended approval for Maxforce® Quantum along with the existing Maxforce® LN black ant control bait stations now gives Bayer two key products which can be used on lawns for ant control.

Quick Bayt® label extension

Quick Bayt®, the paint on granular bait formulation for rapid control of flies from Bayer, has now been granted approval for indoor use where household and green household waste is stored!

This new label extension affords users an even greater scope to use Quick Bayt® in fly problem areas which also includes many rural hygiene situations including animal units, agricultural buildings, small husbandry areas and milking parlours.

Quick Bayt® controls flies within minutes of contact and provides up to 6 weeks efficacy in the field.

Racumin Contact Powder regulatory update

Due to a regulatory update Bayer will be delisting Racumin Contact Powder from it's rodenticide range with effect from 30th June 2012.

All distributors will have up to the 30th December 2012 to exhaust supplies of stock.

New Rodilon® - Resistance is futile

Continued from front page...

and increases consumption. It is perfect for difficult to control infestations throughout a wide range of indoor farm, urban, commercial and residential baiting situations.

Also particularly suited to rats, Rodilon® Blocks are moisture and mould resistant which makes them the perfect bait for hot and damp conditions including sewers. With multiple edges, the Blocks are designed specifically to encourage rodents to gnaw and feed on them. Rodilon® Blocks are an ideal choice if spillages are a concern.

Rodilon® Soft Blocks are suitable for mice and rats and are an excellent choice where there are other food options available. Containing high food grade ingredients in pre-measured sachets, Rodilon® Soft Blocks offers the added benefits of no direct contact to the operator and ease of handling.

Available in a range of pack sizes, Rodilon® will be available from the end of July 2011 through all major distributors.

Flying with solar power

With the same wingspan as an Airbus 340 – and as light as a medium-sized car: The Solar Impulse plane attracted a lot of attention during the Green Week, Europe's largest environmental conference.

The plane is powered solely with solar energy and has already travelled 630 kilometers – the technical know-how and its high-tech polymer materials come from Bayer MaterialScience. "The

Solar Impulse plane is a successful example for what you can achieve with decisiveness and the latest technologies," says Patrick Thomas, Chairman of Bayer MaterialScience. "We at Bayer are delighted to support such a mission with our high-tech materials – in line with our motto 'Science For A Better Life'."

And this mission hasn't been concluded yet. Bayer researchers are working on making the plane even lighter, enabling it to manage longer distances. "In 2014 we would like to fly around the earth – powered exclusively by the sun," says Bertrand Piccard, Initiator and Chairman of Solar Impulse.

The return of the Bed Bug

As Bed bug populations soar fighting them is one of the PCOs most demanding challenges. Their successful control is dependent on many factors.

Bed bugs are probably the oldest insect pest associated with human misery. Although they have never been associated with transmitting disease to humans their dependent parasitism of man has been a scourge since history began. Within recent years, bed bugs have returned with a vengeance. For many PCO's, bed bugs are currently creating more call-backs than all other target pests.

Bed bug treatment is complicated and may be perceived as being a challenge to today's PCO's. Plan your treatment along the basic guidelines of: a detailed and thorough inspection, preparation; treatment; and follow-up. Make these plans specific for the types of infestation that you will be treating.

Apartments, family homes, hotels, nursing homes and hospitals will each have specific requirements and unique harbourage sites that require attention. As an example, almost all hotels use a head-board fastened to the wall above the bed. This practice creates a void behind the head-board that may become heavily infested.

Inspection

When inspecting, use a bright flashlight and magnification tools. Bed bugs, eggs and faecal deposits are very small and may go unnoticed with a casual inspection. No potential harbourage site should be ignored.

Bed bugs will infest bed frames, mattresses, skirting boards, door frames, behind electrical wall sockets, behind wall posters, between books and magazines on shelves and in racks. While inspecting modern sleeping systems (i.e. waterbeds, air mattresses, and foam pads) be sure to inspect the entire structure of the system.

Preparation

Thorough cleaning makes pest control more effective. Prior to treatment ask customers to strip beds down to the bare sleeping surface. Bedding (sheets, blankets, comforters, covers, and duvets) should be laundered or professionally cleaned. Personal items (stuffed animals, soft toys, blankets) should be removed and cleaned. Clutter and clothing should be removed from furniture tops and floors. PCO's should consider using a vacuum to remove bed bugs, their eggs and faecal deposits from harbourages. Use only a specialised designed vacuum with HEPA filters to prevent the spread of potentially irritating debris through the exhaust.

Bed Bug control

Use a crack & crevice tool to remove bedbugs from deep harbourage such as under skirting boards, under carpet edges (pull the carpet up along the edge), around electric sockets (you may have to loosen the plate first), from the bed frame, inside box springs, inside furniture and from floor cracks.

Use a hand-brush attachment to vacuum mattresses and box springs (especially along seams and folds), upholstered furniture and behind curtains. When vacuuming is complete, remove the vacuum cleaner from the site and place the vacuum bag directly into a plastic bag for immediate disposal.

Treat Perimeter Walls/Voids

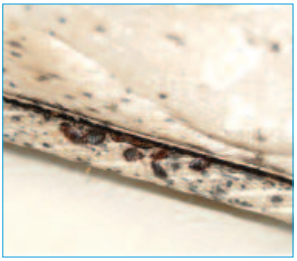
The first step is to treat the wall voids of the room. Loosen sockets and wall fixtures to gain access to wall voids. If access under the skirting board is suitable (i.e. no visible dust will remain in the living space) apply dust. Ficam® D is effective for these types of applications. Wall void dusting is highly recommended when treating flats and hotels. Treat perimeter wall voids first on adjacent rooms. Dust may also be applied along the edge of wall to wall carpets. Pull the carpet up for treatment and replace the carpet immediately after dusting. No visible residue should be left on the wall or carpet surface. Bed bugs will move from treated to untreated areas, so ensure that adjacent rooms are treated.

Treat Bed Area

Bed bugs are usually found close to the bed so focus on the headboard, foot board (if present), box spring/support platform and frame. All cracks and crevices of the bed structure must be treated with a residual like Ficam® W and K-Othrine®. If needed, Ficam® W and K-Othrine® can be applied directly to mattresses and sleeping surfaces along seams, tufts and folds. Box spring tops should be treated in an identical manner to mattresses. The underside of the box spring may be sprayed with liquid residuals, or for long residual, treated with a dust such as Ficam® D. After treatment, covering the mattress with a plastic or allergy-proof cover will help prevent re-infestation.

Treat Furniture (Drawers, Dressers, Sofas and Chairs)

The next step is to do a very thorough crack and crevice treatment to all the furniture in the room. For upholstered furniture, use a similar treatment as the mattress and box spring. Always turn infested furniture over and treat from the bottom. Some furniture may have hollow metal framing (children's bunk beds are an example). Treat inside the metal tubing with a dust.



Follow Up

Within 5-10 days, plan a return visit and repeat the above inspection. Re-treat any area where bed bugs persist and treat new areas where bugs may have moved to avoid insecticide treatments. Follow up is essential since bed bug eggs will hatch after treatment and possibly find untreated harbourages. In hotels it is highly recommended to leave the room unused until the infestation is eliminated. In cases of heavy infestations, a third visit is recommended.

BED BUG CONTROL

Ficam® W

Ficam® D

K-Othrine® SC

USE BIOCIDES SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

Pre-harvest insect control in grain stores

In today's unpredictable and volatile grain markets the correct storage and protection of high quality grain and pulses is very important.

Throughout the plants' growing phase, technology and chemical formulations from companies such as Bayer, protect the cereal crop up to the point of harvest. Ken Black, National Account Manager at Bayer, explained: "In many cases the protection of the crop finishes after harvest and the crop goes into storage until it is ready to be sold. It is at this point that we need to see a significant change in attitude regarding grain storage". He continued: "The small print in many farm standards and assurance schemes as well as buying contracts state that contamination or damage from insects will result in loss of quality and therefore may cause considerable loss in price or even full rejection in the worst cases. Therefore it is very important to keep harvested grain clean from insect remains and damage".

90% of UK farms harbour grain infesting insects

Figures show that over 90% of farms in the UK harbour at least one insect species known to infest grain, yet only 50% of growers use an insecticide to treat the grain store pre harvest.

Insects such as the saw toothed grain beetle, grain weevils, flour beetles, grain borers, bean weevils and flying insects such as warehouse moths, rice moths, Indian meal moths and grain moths are the most common pests of stored grain on UK farms.

Ken Black states: "The best form of control is the prevention of infestation; it is far easier and more cost effective to prevent insect attacks than to try and control them after they have occurred. If an infestation does develop steps need to be taken to eradicate it as quickly as possible".

Pre harvest insect control

The first steps before any fresh, 'uninfested' grain is brought into store is to ensure that the buildings, silos and storage bins are thoroughly cleaned, paying particular attention to dead spaces, cracks and crevices. Any residue from previously stored grain must be removed.

In an ideal world, grain would only be stored in purpose built stores where cracks, dead space and other defects do not exist. In reality however, many farms' grain is stored in buildings that are used for other purposes throughout the year or in bins that have been installed into buildings where no access is available behind or between the bins. Attention must be paid to these areas during the cleaning process.

An industrial vacuum should be used to remove the fine dust and old grain that can build up in cracks and crevices around the building.

It is important to understand that insects found in stored grain in the UK can enter the store in many different ways. Some of the ways include; on bought in feed stuffs for livestock, unprocessed imported cereals, grain bought in from other farms and in sacks and bags. All unused or empty sacks or bags should be removed from the area where the fresh grain is to be stored.

Ken Black advises: "Once thoroughly cleaned, the fabric and structure of the building should be treated with a suitable modern insecticide, such as K-Obiol® EC25 from Bayer. K-Obiol® contains the active ingredient Deltamethrin, has full approval for use on the structure and will give up to 2 months protection when used on the building. He continued: "It is worth noting that some organophosphate products do not hold approval for use on the fabric of the building and should not be used and others have significant withholding periods. A huge benefit of K-Obiol® EC25 is that it has no withholding period".

Using K-Obiol® EC25

The purpose of the insecticide is to kill any insects that have survived after cleaning. The insecticide product should be applied using a knapsack sprayer set at the correct pressure to ensure a medium to coarse spray. The guidelines on the manufacturer's label should be followed closely. All the surfaces of the building should be treated - walls, floors and the underside of the roof. The bins should be treated both inside and out.

Concluding, Ken Black said: "The battle against insect grain pests is continuous but by following these simple steps the risk of infestation can be significantly reduced ensuring that the producer maximises his return on his crops".

Honey bee care - bee aware!

Bayer have recently produced a new brochure promoting care of the honey bee and how the responsible use of pesticides plays a vital role.

The brochure “Honey bee care – Challenges and solutions” covers three main topics: honey bee health (pathogens, nutrition, weather); honey bee safety (regarding pesticides); and Bayer’s commitment and contribution to honey bee health and safety - including Bayer’s provision of Varroamite and small hive beetle products.

Close examination of honey bee health challenges reveals a variety and combination of causes involved. Although challenges and losses have been described for centuries, bees more recently face new challenges:

- the parasitic Varroamite, which has spread to almost all Western honey bee hives (but Australia) over the past 60 years, and which transmits viral infections
- habitat loss, and with it, forage loss
- increasingly unfavourable weather conditions

Strong linkages exist between agriculture and apiculture, so special care must be taken to use pesticides in a “bee responsible” way. Bayer’s activities from research to use in the fields are also highlighted.

The brochure has been especially written for an informed target audience: interested members of the general public, policymakers, beekeepers, farmers, and other relevant stakeholders.

For your free copy please email pestcontrolexpert@bayercropscience.com

BUG WATCH

Wasps Characteristics: Up to 30mm long; eyes kidney shaped; two pairs of membranous wings, mouthparts adapted for chewing and licking; abdomen constricted at base giving appearance of a waist; metamorphosis complete, with egg, larval, pupal and adult stages; typically possess complex social system.

Bed Bugs Characteristics: Two pairs of wings normally present; mouth parts piercing and sucking, forming a beak, or rostrum, normally held under the body. Metamorphosis usually incomplete, with egg and nymphal stages.

Black Ants Characteristics: Elbowed antennae; biting mouthparts; if present, two pairs of membranous wings, fore and hindwings hooked together; abdomen constricted at base giving appearance of a waist which bears characteristic nodes or scales; metamorphosis complete, with egg, larval, pupal and adult stages; possess complex social system.

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