## Stratagem HACCP Australia Approved.

**Stratagem** rodenticide blocks have been endorsed by **HACCP Australia** and are particularly suitable for use by pest controllers servicing the food industry.

**HACCP Australia** considers many issues including the food safety characteristics and risks attached to them. **Stratagem** is appropriate for the food industry in terms of both its application and toxicity.

The rodent bait, **Stratagem**, is very suitable for its purpose in a controlled environment. It also has an anti-fungal quality which is a sensible feature as such items often find themselves attached to bait stations in wet or damp areas and it also has a bright blue colouring which makes for easy identification should it accidentally become detached or lost in a plant.

QA Managers and expert food industry people who have HACCP compliant procedures will no doubt be interested in **Stratagem** and should request their HACCP compliant pest controller to use these products on their premises.

## Stratagem AQIS Approved.

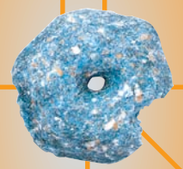
**Stratagem** has an instrument of approval for use in export and registered meat establishments. **Stratagem** is approved under category 15 pesticide type C.



# Mould Proof. Weather Proof.

Non-food blue colouring.

Human taste deterrent.



Gnawing edges.

Crushed grain for palatability.

**Stratagem** is weather proof because it is a wax based bait and remains potent, no matter what the weather.

A fungicide has been added to ensure the bait remains free from mould and as palatable to rodents as the day it was placed.


BASF Australia Ltd
500 Princes Highway, Noble Park, Victoria, 3174

Product Information Hotline
For further information,
contact Freecall 1800 006 393

**www.termidor.com.au**



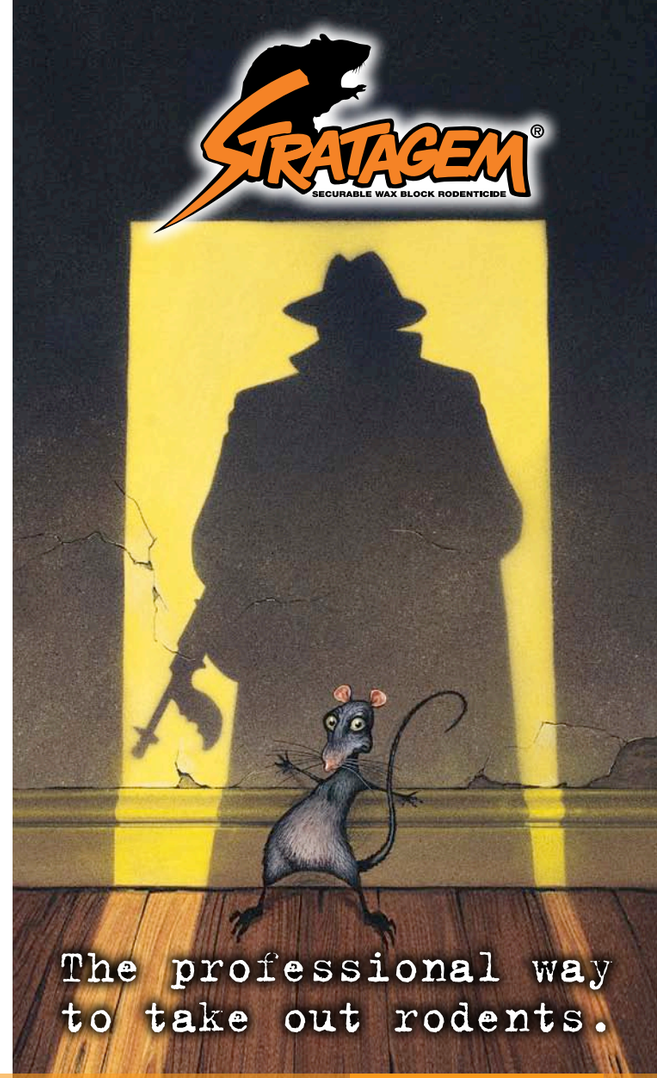
Disclaimer: The information submitted in this publication is based on current BASF knowledge and experience. In view of the many factors that may affect its application, this data does not relieve the user from carrying out their own tests. The data does not imply assurance of certain properties or of suitability for a specific purpose. It is the responsibility of the user to ensure that any proprietary rights and existing laws and legislation are observed. © Copyright BASF 2009.

® Registered trademark of BASF.


ALWAYS CONSULT THE PRODUCT LABEL BEFORE USE.

Distributor Details


CSTR0609SPV01


BASF
The Chemical Company

## If you have to control rodents, you will want to do it quickly.

Rodents are bad news. The dollar value put on the damage they cause through destruction of crops and contamination of grain and other foodstuffs runs into millions a year. Their gnawing through electrical cables is thought to be the cause of many unexplained fires and they carry disease. What's more, rodents breed like rabbits. Two unwelcome guests could multiply to become more than 2000 within a year. So it's important to put a stop to them fast.

## Traditional rodent baits are slow. Rodents need to consume great quantities before they die.

With some older rodenticides, a rodent may need to consume a quantity of bait equal to a quarter of its bodyweight to be fatal. A big ask. At best, several feeds will be required in order to consume this quantity. At worst, the rodent will simply feel ill, then become suspicious enough of the bait to avoid it in future.

## Faster than other rodenticides.

Trials were set up to compare the performance of **Stratagem** against other rodenticides. The baits were tested under the same conditions in an area made to resemble the natural habitat of mice. Feeding time was the shortest and death the quickest with **Stratagem**. Of the rodenticides tested, only **Stratagem** gave complete control.



**Comparative trials**
**Stratagem versus other rodenticides**

| Active ingredient component | Bait eaten (g) | | | Mortality % | Mean days to death |
|---|---|---|---|---|---|
| | Week 1 | Week 2 | Week 3 | | |
| Bromadiolone | 376.8 | 64.9 | 27.0 | 94.6 | 8.1 |
| Brodifacoum | 315.3 | 28.0 | 21.4 | 98.4 | 7.3 |
| **Flocoumafen (Stratagem®)** | **304.7** | **0.7** | **-** | **100** | **5.1** |

Source: Rowe F.P. et al, J Hyg., Camb. 1985, 95,

## Why Stratagem is faster.

### Highly potent. One feed kills.

**Stratagem** is a second generation anticoagulant rodenticide. Only a very small amount is needed to kill a rat or mouse, and a lethal dose can be eaten in a single feed. Rodents then die three to five days after taking the bait. With some other rodenticides, rodents die more than a week after taking the bait.

**Comparative potency of rodenticides**

| Brand of Rodenticide | $LD_{50}$* | Bait Conc. g/kg | Amount of bait calculated to deliver an LD50 dose to a 250g rat. |
|---|---|---|---|
| **First generation anticoagulants** | | | |
| Warfarin | 186 | 0.25 | 186g |
| Coumatetralyl | 16.5 | 0.37 | 11g |
| **Second generation anticoagulants** | | | |
| Bromadiolone | 1.125 | 0.05 | 5.6g |
| Brodifacoum | 0.4 | 0.05 | 2g |
| **Flocoumafen (Stratagem®)** | **0.25** | **0.05** | **1.25g** |

*Source: The Pesticide Manual, British Crop Protection Council, Twelfth Edition, 2000

## Unique formulation attracts rodents and repels mould and water.

**Stratagem** combines the attractiveness of the unique hexagonal shape with the water repelling qualities of wax blocks. **Stratagem** contains crushed grain that is highly desirable to both rats and mice, which are attracted to the product even when there is other food around. While extremely potent, the active ingredient in **Stratagem** is almost impossible for them to detect.

The lasting qualities of **Stratagem** help it survive the elements, so that rodents can get to it before anything else does. The wax used in the bait repels water. A fungicide has also been incorporated to ensure the bait remains free from mould. **Stratagem** blocks are formed by cold pressing and are extremely heat resistant.

## Other reasons to choose Stratagem.

### Effective even against resistant strains.

Rats and mice are developing resistance to some rodenticides, however this is not an issue with a **Stratagem** baiting program. **Stratagem** controls rats and mice that some other rodenticides do not control.

### Cost effective.

The potency of **Stratagem**, when used in the pulse baiting technique, means that while baits are placed in as many points as possible, less bait is required to achieve control.

This results in **Stratagem** being more economical than other rodenticides.

### Typical bait and labour requirements in rodent control.

After the first baiting, or pulse, most of the baits will be consumed in a day or two. Inspect the bait locations after 3 days and select new locations where there has been no bait take. Inspect again 4 days later and replace any blocks which have been eaten. Waiting between bait placements ensures that the rodents that ate the first baits will be dead by the time the second pulse is laid down.

The baits placed during the second and third pulse control rodents that migrate into the territory.

Pulse baiting with **Stratagem** cuts labour and material costs significantly. Elimination of rodents can be accomplished quickly and with fewer baiting visits. Importantly, the bait will be in the environment for less time reducing surplus bait, thus reducing the chances of contamination in non-target areas.

### Delayed onset of ill effects prevents bait shyness.

Having rodent mortality after feeding would cause other rodents to become suspicious of the bait. That is why even a rodenticide as fast as **Stratagem** does not take effect immediately. By the time it does, the rodents are well away, and their friends are happily feeding on the baits, none-the-wiser.

### Contains human taste deterrent.

A bittering agent has been added to **Stratagem** to help prevent accidental human consumption. While this makes the product extremely unpleasant to the human palate, it does not worry rodents.

## How to use Stratagem.

### Easy to use.

**Stratagem** is very easy to use. The hexagonal blocks can be secured on wire or nails and fit standard commercially available bait boxes. Applicators should wear new disposable gloves when handling the bait. It is important that rodents do not detect residues of other chemicals on the bait or bait box.

Read the directions and precautions on the label before use.

### Where to position the bait.

For best results, survey the infested area thoroughly before placing the bait to determine the location of entry, nesting and feeding areas. Rodents are nocturnal and so are rarely seen, but there will be evidence of their presence - urine, droppings, footprints, structural damage to buildings, damage to stored grain or other foods, toothmarks, burrows and holes. Upon identification of areas in which rodents travel, **Stratagem** baits can be placed accordingly.

Mice bait placements are 3 metre intervals, and 9 metre intervals for rats, all within 2 metres of building.

Do not place baits in areas liable to flood.

## Baiting techniques are different for rats and mice.



### Rats

Rats are creatures of habit, and follow well defined paths or tracks between feeding, drinking and living areas. Inside buildings they tend to move close to walls rather than along an open floor. They like to feed under cover, safe from predators.

1. Select bait points between feeding and nesting areas. Bait points may be as close as five metres apart in heavy infestations.

2. Ensure that baits are inaccessible to children and domestic animals. Place 3 or 4 baits on wire or nails or inside bait boxes and secure if necessary.

3. Return to inspect bait points after 3 days. Any baits that have not been eaten should be relocated. However, no new bait should be laid at this stage.

4. Four days later, examine all bait points again. Replace any blocks that have been fed on.

5. Inspect bait points at seven day intervals, placing fresh blocks only when blocks have been fed on. Normally only three or four baiting rounds are required in a control campaign.

### Mice

Mice usually cover very limited areas and, unlike rats, do not need to drink. They are more difficult to control than rats, as their feeding patterns are more erratic. Hence a thorough site survey is important.

1. Position bait boxes two metres apart in areas where activity is obvious. Use 1 or 2 baits per bait box.

2. Ensure the bait box is secure and that children and domestic pets cannot get to it easily. When laying bait in domestic premises place baits under flooring, inside ceiling cavities, along pipe runs, behind skirting boards, cupboards and bulky appliances such as a refrigerator, freezer and washing machine.

3. Follow the same sequence of inspecting bait points and replacing bait as described in the section entitled 'rats'.

