

# Give pests the knockout blow

Crackdown<sup>®</sup> Residual Insecticide is a suspo-emulsion formulation which incorporates the power of the single-isomer synthetic pyrethroid deltamethrin, with two additional ingredients; d-tetramethrin (a flushing and knockdown agent) and piperonyl butoxide (a synergist).

This combination has been proven to provide fast knockdown and excellent residual performance against even the most difficult to control pests.

The synergist in Crackdown helps to overcome certain types of insecticide resistance (this has been demonstrated against Australian field strains of the common bedbug).

## Features

- + Broad spectrum of activity
- + Contains both a knockdown and killing agent
- + Contains a synergist
- + Water-base aqueous suspension
- + Long lasting activity
- + High level of safety in use

## Benefits

- + Effective against a wide range of pests
- + Provides very fast knockdown and kill, giving rapidly visible results – aiding client satisfaction
- + Proven to help in overcoming insecticide resistance
- + Low odour
- + Reduces call backs
- + Can be used with confidence both inside and out

## Target Pests

Ants, Bedbugs, Bird mites, Carpet beetles, Clothes moths, Cockroaches, Fleas, Houseflies, Mosquitoes, Silverfish, Spiders

## Areas of Use

Houses, flats, factories, shops, warehouses, restaurants, hospitals, hotels, kitchens.

## Application rate and delivery

Dilute 75 - 150mL of concentrate in 5 - 10L of water (depending on porosity of surface). Apply as a coarse spray to areas where pests are seen. Avoid over-application (do not exceed point of run-off).



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## The importance of piperonyl butoxide

Once insecticides enter an insect they are subjected to metabolic processes which start to break them down. Generally speaking, in a susceptible insect population (and at adequate levels of exposure), the break down is not fast enough to eliminate the compound before toxic effects are exerted.

Sometimes, if a certain insect population is subjected to the selection pressure of the same repeated insecticide use, a level of tolerance or resistance to that insecticide can develop. There are a number of different resistance mechanism types but the most common is based on changes in metabolic process whereby increased activity of enzyme systems break down the insecticide before toxic effects can be exerted.

Piperonyl butoxide (PBO) reduces the activity of some of these enzyme systems and therefore allows the insecticide to exert its effect without the need for higher doses.

In a non-resistant population PBO simply helps the insecticide to work faster by slowing down its breakdown within the insect.

For this reason PBO is a critical ingredient in Crackdown and Crackdown is an important product to consider in situations where repeated use of pyrethroids has occurred for a long period of time.

## Best practice guidelines

- Conduct a thorough inspection prior to application of any chemical product.
- Read and follow directions on the label – there is information relating to specific pests which is intended to optimise control.
- Ensure spray tank is clean of residues of other formulations prior to use.
- Calibrate sprayer prior to application to ensure that target application rate is being achieved. For internal spraying a flat fan nozzle (eg. size 4001), producing a fine spray pattern is recommended. For external spraying use a medium to coarse flat-fan (eg. size 6502 or 6504) for even, flat surfaces or a variable-cone/cone-jet (eg. X3 or X8) for general situations.
- Avoid application to surfaces which are cleaned regularly or which are very dirty or greasy.
- Monitor pest activity after product is applied – if control is not achieved then other methods may need to be employed (i.e. Integrated Pest Management).
- Where a surface may be susceptible to damage or staining, consider alternative control methods, or it is recommended that a small inconspicuous area be treated (and allowed to dry) first.



ALWAYS READ THE LABEL BEFORE USE

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 **CRACKDOWN®**



## Product Profile

### Active Ingredient

10 g/L Deltamethrin  
10 g/L D-tetramethrin 20:80  
80 g/L Piperonyl Butoxide

### Insecticide group

Synthetic pyrethroid

### Formulation type

Suspo-emulsion

### Pack sizes

2.5 L

**Personal protective equipment:** Cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and face shield.

### Regulatory information

APVMA Product Number: 45907

AQIS IOA Status: 14B

Poisons Schedule: 5

### Other regulatory information

Use of this product according to the registered label is consistent with the requirements of HACCP Procedures used within food processing establishments.

### Impact on the Environment

All pesticides are regulated under the Agricultural and Veterinary Chemicals Act to ensure that they do not pose an unacceptable risk to human health and the environment.

For information regarding pesticide regulatory process please visit the Australian Pesticides and Veterinary Medicines Authority website at [www.apvma.gov.au](http://www.apvma.gov.au)

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