TOMORROW’S TERMITE SOLUTION IS ALREADY HERE

LABEL EXTENSION
7 YEAR PROTECTION*
ALTRISET stops termites feeding within hours

Stops termites feeding within 2-4 hours with no activity within 72 hours, after only 1 minute exposure to ALTRISET.

Sand treated with ALTRISET label rate (0.05%)

Termites placed on sand for 1 min

Transferred to new dish with brown paper towel disks

Feeding activity measured over 72 hours

Results: Termites exposed for 1 minute to ALTRISET stopped feeding – no damage to the filter paper.

We use ALTRISET because we know it works. We’ve seen fantastic results with ALTRISET. It transfers through, and wipes out, the termite population. We also love ALTRISET because it is unscheduled.

David Drury from Frontline Termite and Pest Control in Victoria

Kills 100% of directly or indirectly exposed termites in 14 days

### Conclusion: ALTRISET is transferred readily from donor termites (exposed to termiticide) to recipient termites (indirectly exposed to termiticide), resulting in 100% mortality of all termites within 14 days.

While fipronil had 100% kill of donor termites, only 62.5% of recipient termites are killed after 14 days confirming that the transfer properties of fipronil are not that effective. Imidacloprid gave low levels of mortality and provided no evidence on termiticide transfer.

**Source:** Stine-Haskell Research (DuPont 2007). Target Pest: R. virginicus.

### Real transfer for termite colony control

It is not always possible to locate termite nests so direct treatment of nests is not normally possible. Termites exposed to ALTRISET don’t die immediately and are able to transfer the active ingredient to other termites and back to the nest, leading to a greater chance of complete termite colony elimination.

### Aggregation effect

ALTRISET affects mobility and increases aggregation. This delayed mortality and increased social contact accelerates transfer throughout the colony.

**Conclusion:** Even at 0.01% ALTRISET exhibits unique behavioural effects on termites. After exposure, termites aggregate, increasing the social interaction among termites. This leads to increased chance of sharing ALTRISET with unexposed members of the colony and more comprehensive management.

**NOTE:** Not all the termites in the untreated group can be seen because they are hiding from the light under the filter paper, which is natural behaviour for untreated termites.


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**Transfer of non-repellent termiticides from termites exposed to treated soil**

<table>
<thead>
<tr>
<th></th>
<th>Donor</th>
<th>Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTRISET (0.05%)</td>
<td>100%</td>
<td>90%</td>
</tr>
<tr>
<td>Fipronil (0.06%)</td>
<td>90%</td>
<td>62.5%</td>
</tr>
<tr>
<td>Imidacloprid (0.05%)</td>
<td>10%</td>
<td>0%</td>
</tr>
</tbody>
</table>

**Note:** Fipronil and Imidacloprid are the active ingredients in a number of termiticides.
Ongoing house trials in Australia

From mid-2009 until 2011, 28 house trials were set up with ALTRISET using a perimeter trench treatment barrier. This was done to determine if the ALTRISET treated zone stopped termite infestation. In 2011, a further 5 houses were added and these included direct treatment with ALTRISET as a foam prior to soil barrier treatment.

The houses were located across Australia with different climates, soil types, construction methods and varied levels of exposure from termite species including Mastotermes in the tropical north, Coptotermes, Nasutitermes and Schedorhinotermes.

After treatment, the houses were inspected at 30 day intervals. The results proved that termites are not locked into structures by ALTRISET and that once exposed to ALTRISET, termites die within 14 days.

All houses still in the trial (17 houses^ at April 2016) continue to have either 6 or 12 month timber pest inspections and all are still free of termite infestation.

^ Over time some houses have been sold with new owners unwilling to continue being involved with the ongoing trial.

Protects properties for years

ALTRISET termiticide was challenged under field trial protocols in a trial in Gosford (NSW). The performance of ALTRISET at the Gosford field site was excellent, with both high and low doses delivering 100% protection in horizontal and vertical treatments after 7 years. As the graph below shows, termite pressure was relatively low in the first two years of the trial but conditions in the past 7 years have tested ALTRISET and it has continued to perform with zero termite activity in the treated sites.

Source: Agrisearch Service Pty Ltd, Gosford, NSW

*Up to 7 years protection, south of Tropic of Capricorn
Exempt from poison scheduling

The targeted, unique mode of action of ALTRISET means it has a very low toxicity to mammals, birds, earthworms and even honeybees.

Chlorantraniliprole has an extremely low toxicity as the graph below illustrates. This is primarily due to the unique mode of action and the fact that only certain insect muscles are sensitive to and targeted by, its activity.

Higher values mean lower toxicity

Safeguard you and your staff

ALTRISET is designed for use inside and outside all structures. Additionally, given ALTRISET is the only termite protection product that is exempt from poison scheduling, it is the ideal product to use in confined spaces such as subfloors.

Personal Protective Equipment is not required with ALTRISET. No odour and no skin irritation means an improved experience for the applicator. Your clients will also be more reassured knowing that you are using a product exempt from poison scheduling inside their home or business.

<table>
<thead>
<tr>
<th>Products/Active</th>
<th>Eye Protection &amp; Face Mask</th>
<th>Nitrile Gloves</th>
<th>Respirator</th>
<th>Overalls</th>
<th>Washable Hat</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTRISET</td>
<td>Not required</td>
<td>Not required</td>
<td>Not required</td>
<td>Not required</td>
<td>Not required</td>
</tr>
<tr>
<td>Imidacloprid</td>
<td>Yes</td>
<td>Yes</td>
<td>Not required</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fipronil</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Bifenthrin</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>
What makes ALTRISET different?

The class of chemistry to which chlorantraniliprole (the active ingredient in ALTRISET) belongs was inspired by the insecticidal properties of a natural substance found in the trees and shrubs of the *Ryania* spp. It targets the insect muscles (other liquid termiticides affect the nervous system) as is shown in the diagram below.

**ALTRISET mode of action**

The evidence worth chewing over

Studies have proven that ALTRISET is very effective against termites, stopping them feeding within hours, which prevents any further damage to the property that is infested.

Laboratory tests have shown that termites tunnel through the treated zone and quickly acquire a lethal dose of ALTRISET. Once affected by ALTRISET, termites will begin to exhibit increased aggregation, enhanced grooming and contact with other colony members for hours.

Affected termites will become more lethargic and show signs of muscle paralysis; decreased coordination and mortality will ultimately occur within several days. The delayed mortality and increased colony interaction are key reasons why ALTRISET is so effective.

This picture illustrates a termite worker that tunnelled through sand treated with ALTRISET at 0.05%. The worker “picked up” and ingested large amounts of the active ingredient as evidenced by the glowing areas. The high concentration of chlorantraniliprole on the mandibles of the termite causes the feeding cessation. Chlorantraniliprole on the cuticles of the termite is readily passed to other termites through contact and grooming.
ALTRISET CONTINUES TO RAISE THE BAR

EFFECTIVE
- 100% directly and indirectly exposed termites within 14 days
- Colony elimination
- Protects properties for years

VERSATILE
- Barrier treatment
- Direct treatment as liquid or foam
- Pre-construction
- Subfloors and confined spaces
- Sensitive sites

FAST ACTING
- Stops feeding within 2-4 hours
- Unique mode of action

UNSCHEDULED
- No PPE requirements
- Low toxicity to mammals, birds, earthworms and bees
- No odour and skin irritation

EASY-TO-USE
- No need to isolate the area being treated
- Does not lock termites in — termites don’t die too quickly and don’t form a repellent barrier

Now it gives you and your customers the confidence of 7 year protection.*

It’s no wonder ALTRISET is fast becoming the preferred termiticide among Australia’s leading pest control experts.

*Up to 7 years protection, south of Tropic of Capricorn. Refer to APVMA approved label.
The ALTRISET termite control timeline

<table>
<thead>
<tr>
<th>PRIMARY EXPOSURE</th>
<th>WITHIN HOURS</th>
<th>WITHIN DAYS</th>
<th>WITHIN 14 DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTRISET Spreads Through Colony</td>
<td>Stops Termites Feeding</td>
<td>Paralysis and Death</td>
<td></td>
</tr>
</tbody>
</table>

Termites come into contact with ALTRISET. They walk through it, ingest it and carry it on their bodies. They cannot taste or smell it. Direct treatment via foaming and soil contact.

Within the first 2-4 hours, their mouths become paralysed and they stop feeding. There is no further damage to the home. For larger termites such as Mastoterms, it can take 4-8 hours.

For the next few days, termites continue to groom and interact with other termites spreading ALTRISET to other members of the colony and back to the nest.

Over time, movement decreases and the termites are paralysed and die.

ALTRISET termite treatment protocol

We all know that termite control is not an easy process and requires thorough inspections and treatments by qualified timber pest control professionals, using appropriate equipment and innovative products to ensure the control and elimination of termites is achieved.

We understand the challenges you face as a pest management professional. We are committed to working with you to find effective solutions to these challenges. ALTRISET offers you an option that delivers safety in combination with effective termite control.

Training

We routinely conduct training with customers in conjunction with our distribution partners. These are tailored and can be conducted onsite at your company premises. If you would like training for your team to learn more about our innovative products and how to apply them, please contact us.

www.syngentapestmanagement.com.au
www.altriset.com.au

To learn more about ALTRISET Termiticide, contact Syngenta Professional Pest Management on 1800 022 035