

PROFESSIONAL PEST MANAGEMENT

Ant Control That's Clearly Superior.

Technical Bulletin

FOR LIFE UNINTERRUPTED™

 **Optigard® Ant**
Gel bait

syngenta.

TM

Optigard® Ant Gel bait at a glance

Make the ants disappear. When customers call about an ant problem, that's all they want. They're not concerned with the how, what and why of ant control. All they want to see is their ant problem solved. With Optigard® Ant Gel bait from Syngenta, that's all they will see.

Unlike other baits, Optigard® Ant Gel bait doesn't have an unsightly yellowish-brown colour or an inconsistent, runny formulation. Optigard® Ant Gel bait is transparent at application and remains clear throughout the treatment cycle. It has little to no odour and won't stain treated surfaces. Its thicker consistency helps it to hold its shape after application and resist degradation due to high temperatures.

Its active ingredient, thiamethoxam, is a second-generation neonicotinoid insecticide belonging to the thianicotinyl subclass. Thiamethoxam has demonstrated excellent activity against a broad range of economically important pests. Products containing thiamethoxam are used to control insect pests of crops, turf and ornamentals, as well as a broad spectrum of urban pests, including ants, termites, cockroaches, beetles and other nuisance insects.

Because of the unique properties of its active ingredient, thiamethoxam, Optigard® Ant Gel bait is readily transferred throughout the colony. Once ingested by foraging workers, Optigard® Ant Gel bait doesn't kill immediately; instead it is designed to take advantage of trophallaxis, or regurgitation. Ants that feed on the gel return to the nest and transfer the bait to their nest-mates, eliminating the entire colony, including queens. Tests show that a reduction in workers will be apparent in two to three days, with complete colony elimination occurring within a week or more.

Optigard® Ant Gel bait has a non-repellent formula that has demonstrated excellent palatability among a wide variety of ants. Studies show Optigard® Ant Gel bait retains its palatability for more than two full weeks after baiting, up to twice as long as other products.

Mode of Action:

Thiamethoxam targets the nicotinic acetylcholine receptors in the insect's nervous system, resulting in the death of the ant. This mode of action is significantly different to that of other classes of insecticide commonly used for ant control. [e.g. boric acid formulations, pyrethroids, phenylpyrazoles (fipronil), pyrroles (chlorfenapyr), etc.]

Product Description and Packaging:

Optigard® Ant Gel bait is an easy-to-use, 0.01%, gel formulation packaged in a 30g syringe.

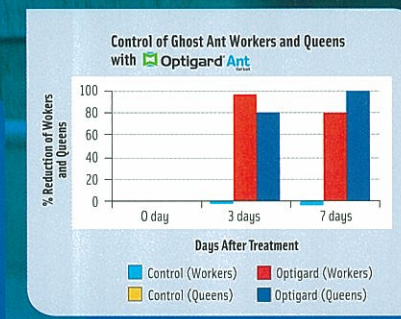
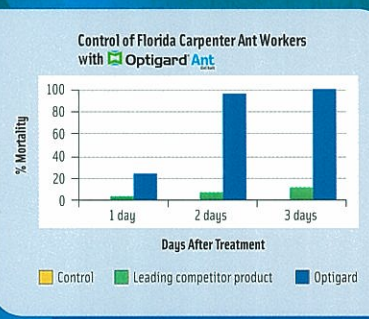
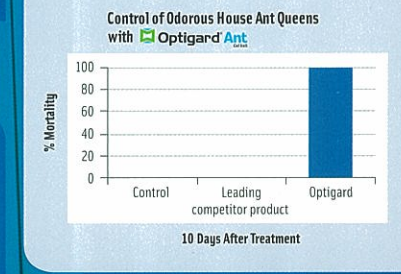
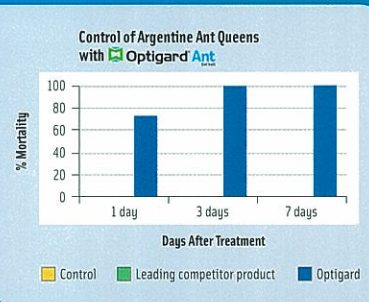
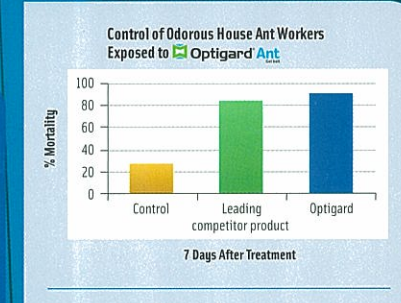
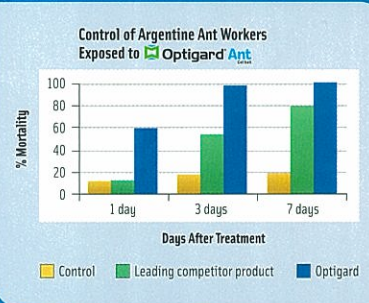
Application of Optigard® Ant Gel bait

- ▶ Use spot placements in the cracks and crevices where ants nest or forage and/or in areas of entry into structures
- ▶ Apply up to 1 gram of bait per spot
- ▶ This product can be applied using the syringe applicator or bait injector tools.

Product Profile For Optigard® Ant Gel bait

- Broad-spectrum control of ants, including Argentine, Carpenter, Odorous House, Ghost and other pest ant species
- Non-repellent insecticide
- Kills ants on ingestion
- Non-repellent chemistry results in transfer of the bait to the colony and secondary kill of nest-mates
- Reduction of the workers occurs within two to three days for most species
- Queen mortality often occurs within days of worker mortality
- Test data shows that complete colony control occurs within days to weeks of baiting
- For use in cracks and crevices indoors and outdoors
- Packaged in a ready-to-use syringe complete with plunger for ease of application
- Colourless formulation with little to no odour
- Non-staining
- Non-volatile
- Remains palatable to the ants after aging for at least 14 days
- Gel is readily consumed compared with other ant baits
- Retains gel integrity at high temperatures

Product performance



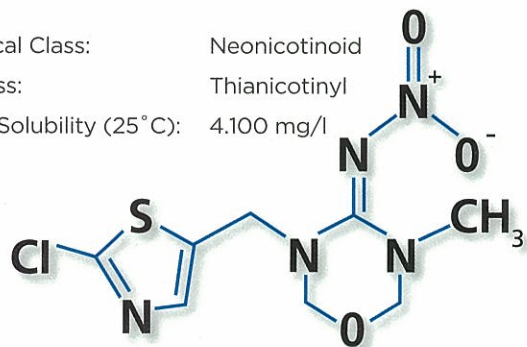
Product safety

Common Name: Thiamethoxam
Chemical Name: 4H-1,3,5-Oxadiazin-4-imine,
3-[(2-chloro-5-thiazolyl)methyl]
tetrahydro-5-methyl-N-nitro

CAS Registry No.: 153719-23-4

Chemical Class: Neonicotinoid
Subclass: Thianicotinyl

Water Solubility (25 °C): 4.100 mg/l



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To learn more about Optigard® Ant Gel bait, please visit www.SyngentaPMP.com



USE INSECTICIDES SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.
Optigards® Gel bait is a trademark of a Syngenta Group Company.
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Toxicological Profile

Hazard Indicator	Species	Optigard 0.01% Ant Gel bait
Oral LD ₅₀	Female Rat	>5,000 mg/kg body weight (Practically Non-Toxic)
Dermal LD ₅₀	Rat	>5,050 mg/kg body weight (Practically Non-Toxic)
Inhalation	Rat	>2.61 mg/l air -4 hours (Practically Non-Toxic)
Eye Contact	Rabbit	Minimally Irritating
Skin Contact	Guinea Pig	Not a Sensitizer



The active ingredient, thiamethoxam and the formulated bait have low acute toxicity to mammals by the oral, dermal and inhalation routes of exposure. Skin and eye irritation studies indicate that thiamethoxam is not a sensitizer. Thiamethoxam is not mutagenic, teratogenic, or a developmental toxicant.

Why Choose Optigard® Ant Gel bait?

- ▶ Broad-Spectrum control of ants, including Carpenter ants
- ▶ Colourless and odour-free
- ▶ Non-repellent and transferable; knocks out workers, brood and queens
- ▶ Remains palatable for at least 14 days after baiting (indoors and outdoors)
- ▶ Packaged in ready-to-use syringe with plunger for easy application

Important: Always read and follow label instructions before buying or using these products. Syngenta and its affiliates warrant that their product conform to the chemical description set forth on the product labels. No OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO SYNGENTA PRODUCTS. Syngenta and its affiliates neither assume nor authorize any representative or other person to assume for them any obligation or liability other than such as is expressly set forth herein. UNDER NO CIRCUMSTANCES SHALL SYNGENTA AND ITS AFFILIATES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THEIR PRODUCTS. No statements or recommendations contained herein are to be construed as inducements to infringe any relevant patent now or hereafter in existence. ©2013 Syngenta. Syngenta Asia Pacific Pte.Ltd, No. 1 Harbour Front Avenue, #03-03 Keppel Bay Tower, Singapore 098632.