



# Imidacloprid

By DoMyOwn staff

## Imidacloprid

**Imidacloprid is a systemic insecticide manufactured by Bayer Cropscience for the control of turf, crop, and structural pests.** When used on crops, Imidacloprid is taken up by plant roots and into the plant vascular system, where insects ingest it along with the plant fluids. Imidacloprid is sold under a variety of trade names including Merit, Premise, Pre-Empt, and Maxforce. Imidacloprid is also the main active ingredient in three out of the four most popular preventative topical flea treatments for dogs in the US.

### Imidacloprid's mode of action is similar to that of the natural drug nicotine.

The technical material of Imidacloprid is a chlorinated analog of nicotine, belonging to the class of chloronicotinyl insecticides. Insecticides in this chemical class work in a similar manner to the natural drug nicotine, attacking the central nervous system and causing inhibiting the normal function of nicotinic acetylcholine receptors. The result is a disruption of nerve transmission, leading to convulsions, hyperexcitation, paralysis and death.

### Imidacloprid is safe for use around people and pets.

Imidacloprid is noted for having low toxicity to most animals other than insects. It is considered much safer for insect control than other neurotoxins, including organophosphates. The main reason for this is that Imidacloprid targets a very specific receptor in insects that people and other animals do not have.

### Imidacloprid has diverse insecticide applications.

The relative low toxicity of Imidacloprid enables its use in a broad spectrum of applications where people or animals may be exposed, including pet flea treatments, control of beetle larvae in lawns, elimination and maintenance of termite infestations in residential and commercial structures, and agricultural pest control. to dogs and humans.

### Products containing imidacloprid:

- [Maxforce Fly Spot Bait](#)- Kill flies in 60 seconds or less with Fly Spot Bait.
- [Merit 75 WP](#)- lawn insecticide to control grubs, weevils, and other soil and turf inhabiting pests.
- [Merit Granules](#)- Granular insecticide to control white grubs and other insect pests in lawn and landscape areas.
- [Pre-Empt Roach Bait Gel](#)- Colorless, odorless long-lasting roach bait gel that is great for use along with the popular Maxforce brand of roach baits.
- [Premise 2 Termiticide](#)