

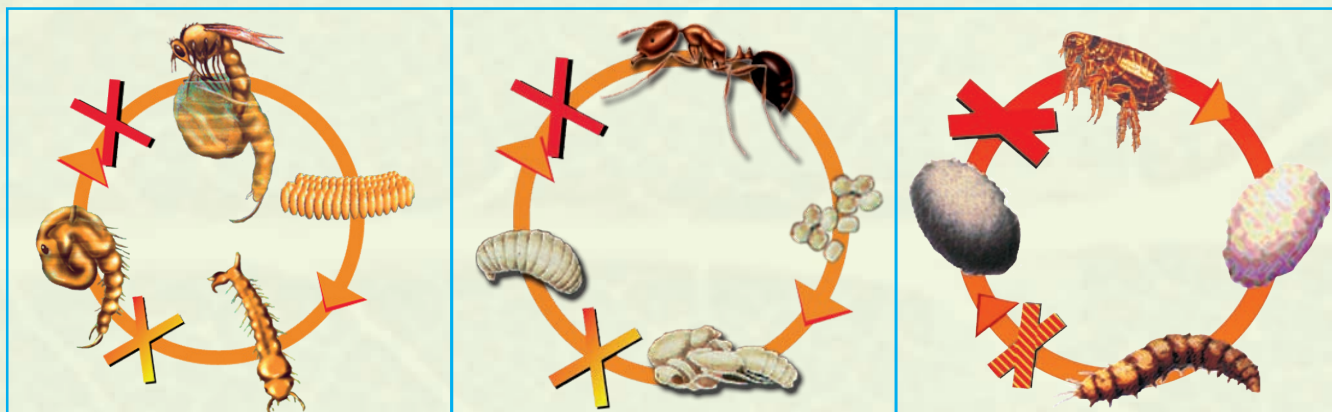
INSECT GROWTH REGULATOR S-METHOPRENE

**THE ENVIRO-FRIENDLY, OPTICALLY ACTIVE INGREDIENT
SUPPORTED UNDER THE EUROPEAN BIOCIDAL DIRECTIVE**

BÁBOLNA BIO in line with the Biocidal Products Directive has prepared and submitted its Active Substance Dossier for S-methoprene insect growth regulator (IGR), under Pt. 18 of Insecticides. Following the issue of a positive CAR by the Rapporteur, the Irish Competent Authority. The evaluation of the dossier by the Member States is ongoing.

Following Annex I inclusion BÁBOLNA BIO plans to prepare a number of Product Dossiers for a variety of indoor and outdoor uses.

S-methoprene is synthesized under certified Good Manufacturing Practice (GMP) conditions. For this substance a Drug Master File (DMF) has been prepared as well.



S-METHOPRENE

S-methoprene was the first commercially developed insect juvenile hormone analogue (JHA). The compound mimics the action of an insect growth regulating hormone and interferes with the insect's life cycle, preventing it from reaching maturity. The mature stages lose their capacity to reproduce, thus the cycle of reproduction stops and infestations diminish. S-methoprene exhibits especially high activity against insect orders Diptera and Coleoptera and is commonly used to control species that are harmful mainly as adults (e.g. mosquitoes, flies, fleas). S-methoprene is also active against a range of other insect pests that infest in large numbers (e.g. beetles, ants).

ADVANTAGES OF USE

S-methoprene based formulations have several advantages over conventional insecticides. They are highly selective and target specific, with low mammalian toxicity and

favourable environmental profile. Since S-methoprene does not kill adults directly, it is sometimes used in combination with fast acting insecticides with low mammalian toxicity thus providing fast knockdown as well as extended residual activity. In summary, S-methoprene based products provide:

- Wide spectrum of activity against many insect pests
- Efficiency against insecticide-resistant populations
- Long lasting residual action - less treatments required
- In combination with conventional insecticides delays the development of resistance
- Reliable and safe use - no significant toxicity to warm-blooded animals and environment
- Readily biodegradable, no accumulation or bio-magnification
- WHO allows use of S-methoprene even for potable water treatment