



EcoGrape : SUSTAIN-ABILITY



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NeemAzal-TS™

**Pest
Management**

**Residue
Management**

**Resistance
Management**



The Neem Tree - botanical pharmacy

The tropical neem tree or Margosa tree (*Azadirachta indica*-A.juss) belongs to the Meliaceae family and has been revered by Indians for centuries for its various properties of controlling insects like fleas, ticks, nits and head lice, working as a parasiticide, anthelmintic, antibacterial and as contraceptive (Wikipedia). Neem seed kernel contain secondary biochemical metabolites including the Azadirachtin A-L group, the limonoids Salannin and Nimbin and others (>60 active ingredients in total). **The synergy of these active ingredients guarantee enhanced biochemical activity.**

General - advantage through optimum quality

Botanical, selective insecticide with active ingredient compound NeemAzal is a natural extract from neem seed kernel. **Second generation formulation**, 100% based on renewable natural resources. NeemAzal is the result of a watery distillation extraction process. No fossil fuels are involved. It is an EC, standardised minimum 10,000 ppm Azadirachtin A, maximum 4% NeemAzal Technical. ACVM registered P 5412, BioGroNZ certified #433.

Pest Management - controls pests, looks after beneficial insects

- Apply at 100 ml on 30-35 l H₂O, 1 l on 300-350 l H₂O or dilute at rate of 0.3-0.5%
- High efficacy in control of insect pests and spider mites (free feeding, sap feeding, biting insects)
- Systemic and translaminar mode of action
- Insects ingest the active ingredients by sucking or biting leaf tissue and subsequently stop feeding and doing damage to the crop. Do not evaluate the efficacy by the number of dead pest insects but by monitoring the reduction of leafmass or the production of honey dew. For example, aphid colonies are often visible for another few days, but young aphids won't develop and stop reproduction
- Use on Aphids (WAA), Thrip, Whitefly, Leaf Roller, Psyllid
- Benign to beneficial insects/predators
- Non-toxic to honey bees and bumble bees
- Safe for aquatic organisms

Residue Management - no withholding period

- Exemption of tolerance (MRL)
- Fast degradation on crop, no taint or odour

Resistance Management - superior synergy

- Standardised extract NeemAzal is a complex mixture of numerous active substances (limonoids)
- Resistance of insects to NeemAzal and its formulation NeemAzal-T/S is unknown and very unlikely to occur
- **NeemAzal-T/S is not a neem oil** as for risk of aflatoxin contamination
- Neem oil formulations contain toxic solvent residue and stabiliser
- **Use of Neemazal-T/S in spray programme supports prevention of resistance development**

