

FACT SHEET:

INSECTICIDES RECOMMENDED FOR CROPS IN FIJI

Crop Research Division



Insecticides are chemicals used for controlling insect pest

Insecticide	Active Ingredients/ MOA/ CLASS	Control
AgChem BT Biological Insecticide	Bacillus thuringiensis (Bt) 23.7% W/v MOA – Systemic Class-pore-forming toxins (PFT)	A highly selective insecticide for use against caterpillars (larvae) of Lepidopterous insects i.e., DBM (Diamondback moth), armyworms, tomato fruit worms & pod worms.
Match Insecticide	Lufenuron 500g/L MOA- Contact Class- benzoylphenylurea	An insect growth inhibitor for the control of DBM in cabbages
Prevathon	Rynaxypyr 5% (51.5g/L) Chlorantraniliprole in the form of suspension concentrate MOA- Contact Class- anthranilic diamide	DBM, LCM (Large cabbage moth), pod borer, armyworms, cluster caterpillar, semi looper, center grubs, cutworms, leaf roller, leaf miners
Multi-Guard 1.8 EC Insecticide	Abamectin (18g/L; 1.8%) EC MOA- Contact/systemic Class- macrocyclic lactones	For control of Whiteflies, DBM, leaf miner, citrus rust mites and beetle on a range of fruits, vegetables
Hextar Carbicide 85	Carbaryl 800kg/kg in the form of a wettable powder MOA- Contact/systemic Class- Carbamates	For the control of armyworms, stem borer, leaf rollers and aphids on a range of vegetable crops and ornamental plants.
Super-Guard 2.8 EC Farmthrin 2.5 EC Suncis 25 EC	Deltamethrin 2.8% w/w (2.8g/L) Deltamethrin w/w (2.8g/L) Deltamethrin 2.8% MOA- contact and ingestion Class- pyrethroids	Pyrethroids, contact insecticides for the control of caterpillar, beetle, thrips, white butterfly, on a broad range of fruits and vegetables and ornamental plants. It has fast acting stable and has moderate persistence on plants.
Diazinon 20 Hextar Mapa Diazinon 60	Diazinon 200g/L MOA- contact Class- organophosphates	For the control of aphids, mites leaf miners, leaf hoppers, flea beetles, leaf miners, earworms in rice, citrus, vegetables, tomatoes & watermelon.
Malathion 50 EC (Maldison). Malathion 840	500g/L w/v Maldison Malation 84% w/w MOA- contact Class- Organophosphate	Organophosphate contact insecticide. For the control of leaf hoppers, aphids, thrips, whitefly, mealy bugs and spider mites.
Chlorpyrifos 500 EC	500G/L Chlorpyrifos (anti-cholinesterase compound) MoA- contact Class – organophosphate	For the control of a wide range of insect pests including white fly, mealy bugs, cricket, and cutworm on fruits, vegetables, cereals, pasture and turf
Steward 150 SC	Indoxacarb 150g/L MoA- contact Class- oxadiazine	For control of caterpillars in cabbage, DBM, LCM, cluster caterpillar, semi looper, centre grubs, leaf miners, cut worms and web worms.
Bifenthrin 8 SC	Bifenthrin 80G/L	A systemic pyrethroid insecticide with the abroad spectrum activity which has a rapid knockdown and a long residual action.

Royal Bifenthrin	Bifenthrin 80G/L	Controls caterpillar, aphids, leaf miners, whitefly, thrips, mites and taro beetle. For Taro beetle start treatment once at planting and after 3 months later at 100mL/plant. A systemic pyrethroid insecticide with the abroad spectrum activity which has a rapid knockdown and a long residual action. Controls caterpillar, aphids, leaf miners, whitefly, thrips, mites and taro beetle.
Sundomethrin 25 EC	Permethrin 250g/L (25%) as Emulsifiable concentrate	A synthetic contact pyrethroid insecticide For control of cluster caterpillar, cabbage aphids, army-worms and bean pod borer.
Sunthene Royalthene Orthene Acephate Raythene	Acephate (75% w/v) Acephate (75% w/v) Acephate (75% w/v) Acephate (75% w/v) Acephate (75% w/v) Class- organophosphate	A broad spectrum systemic insecticide for the control of a wide range of chewing and sucking insects, most caterpillars, aphids, leaf miner, leafhoppers, cutworm on vegetable crops, citrus, avocados, ornamentals, tobacco and rice.
Methate Insecticide	Methomyl 20% w/v Inert Ingredients 80% w/v Total 100% w/v MoA- contact Class- Organophosphates	Methomyl 20% w/v SL is incompatible with alkaline reaction products and should not be mixed with products that are emulsifiable concentrate.
Hortiguard	Abamectin (1.8/%) w/v MOA- Contact/systemic Class- macrocyclic lactones	Abamectin is a highly toxic material, however most formulated products containing abamectin are of low toxicity to mammals (5, 7).
Max Guard	Indoxcarb 150 G/L MoA- contact Class- oxadiazine	For the control of sucking insects like Bollworm, cutworm, Fruit Worm, Cabbage Caterpillar in various crops like cotton, rice, fruit trees and vegetables.
Spinosad	Spinosad 120g/L of product Inert ingredient upto 1L product MoA- systemic Class - Naturalyte	For the control of insect pest in Brassicals crops, insects like Green Looper, Helioths and cabbage with butterfly larvae.
Royal Abamectin	Abamectin 18g/l MOA- Contact/systemic Class- macrocyclic lactones	Abamectin is a Glycoside Insecticide with contact and stomach action. Efficacy is best applied in the younger larval stage
Royal Deltamethrin	Deltamethrin 28g/l EC MOA- contact and ingestion Class- pyrethroids	Deltaramethrin is a broad-spectrum synthetic pyrethroid insecticide with contact and stomach action. To apply during the peak period of young larvae, avoid applying when it is high wind and high temperature.
Royal Chlorpyrifos	Chlorpyrifos 500g/l	An organophosphate insecticide with touch killing. Stomach poisoning and fumigation. Apply at the beginning of the larvae or hatching stage