

A selection of biopesticides and other products registered in New Zealand for use on indoor tomato crops

Bio-insecticides			
Biologicals			
Active Ingredient	Trade name examples	Agrichemical group	More info
AZADIRACHTIN	Naturally Neem	Biological	Page 8
BACILLUS THURINGIENSIS	Bactercide WG, Biobit DF, Dipel DF, Dipel ES, Bactur	Biological	Page 9
BEAUVERIA BASSIANA	Contego BB, Beaugenic, Beaublast	Biological	Page 9
VERTICILLIUM LECANII	eNtokill, eNtoblast	Biological	Page 16
Bio-fungicides			
Microbials:			
Active Ingredient	Trade name examples	Agrichemical group	More info
BACILLUS AMYLOLIQUEFACIENS	Triplex	Microbial	Page 24
BACILLUS SUBTILIS	Donaghys Foliactive, Bacstar, Serenade Max	Microbial	Page 24
Mineral Oil:			
MINERAL OIL	Excel Oil - Organic	Mineral oil	

ABAMECTIN

Trade Name Examples: Apostle, Avid, Invert EW, Verdex, Tripsol

Agrichemical Group: Avermectin

IRAC (Insecticide Resistance Action Committee mode of action number): 6

Registered on indoor tomato?: Yes

Withholding Period (days): 3

Maximum Residue Limit (mg/kg): 0.10 {108} Sum of parent B1a and B1b components

Additional NZ EPA controls by trade name: Tripsol: The maximum application rate for Tripsol shall be 0.85 L/ha (19.13 g acrinathrin/ha and 10.71 g abamectin/ha) with a maximum application frequency of 4 applications per year and a minimum application interval of 7 days.

ACRINATHRIN

Trade Name Examples: Tripsol

Agrichemical Group: Synthetic Pyrethroid

IRAC (Insecticide Resistance Action Committee mode of action number): 3A

Registered on indoor tomato?: Yes

Withholding Period (days): 3

Maximum Residue Limit (mg/kg): 0.10

Additional NZ EPA controls by trade name: Tripsol: The maximum application rate for Tripsol shall be 0.85 L/ha (19.13 g acrinathrin/ha and 10.

SULFOXAFLO

Trade Name Examples: Transform

Agrichemical Group: Sulfoximine

IRAC (Insecticide Resistance Action Committee mode of action number): 4C

Registered on indoor tomato?: Yes - Fruiting vegetable

Withholding Period (days): 1

Maximum Residue Limit (mg/kg): 1.00

Additional NZ EPA controls by trade name: Maximum ground based application rate of 96 g ai / ha, up to 4 applications per year with a minimum interval of 14 days between applications. Do not apply this product in areas where bees are foraging or to any plant likely to be visited by bees (a) at the time of application; or (b) before the spray has dried following application

TEBURENOZIDE

Trade Name Examples: Approve 70 WP, Comic

Insecticides Compatibility

Parasitoids

ACTIVE INGREDIENTS	BENEFICIAL INSECTS	PERSISTENCE	REGISTERED ON INDOOR TOMATO?
ABAMECTIN	Very harmful - 76 to 100% mortality	3 Weeks	Yes
ACRINATHRIN	Very harmful - 76 to 100% mortality		Yes
ALPHA-CYPERMETHRIN	Very harmful - 76 to 100% mortality	8-12 Weeks	No
AZADIRACTIN	Moderately harmful - 26 to 50% mortality		Yes
BACILLUS THURINGIENSIS	Harmless - 0 to 25% mortality		Yes
BEAUVERIA BASSIANA			Yes
BIFENTHRIN	Very harmful - 76 to 100% mortality	8-12 Weeks	No
BUPROFEZIN	Moderately harmful - 26 to 50% mortality	0 Weeks	Yes
CARBARYL	Very harmful - 76 to 100% mortality	3 Weeks	Yes
CYANTRANILIPROLE			No
CYPERMETHRIN	Very harmful - 76 to 100% mortality	8-12 Weeks	Yes
DELTAMETHRIN	Very harmful - 76 to 100% mortality	8-12 Weeks	No
DICHLORVOS	Very harmful - 76 to 100% mortality		

