

Vegetable Small Grower Guideline

A suggested guideline for the sustainable production of healthy vegetables. Improve crop health and productivity while building root health and fertility.

Laying Foundations, Root Health Program

Product	When	How	Why
Eco-T®	<ul style="list-style-type: none"> 2 days before planting as a seedling drench OR at planting. Repeat monthly. 	<ul style="list-style-type: none"> Application rate: 2,5 g/10 L Seedling drench: 2 L per 250 plants OR Soil drench: 125 ml per seedling. 	<ul style="list-style-type: none"> Active ingredient: <i>Trichoderma asperellum</i> Stimulates healthy root development and suppression of soil borne root diseases.
RhizoVital®42	<ul style="list-style-type: none"> 2 days before planting as a seedling drench OR at planting. Repeat every 2 months. 	<ul style="list-style-type: none"> Application rate: 4 ml/10 L Seedling drench: 2 L per 250 plants OR Soil drench: 125 ml per seedling. 	<ul style="list-style-type: none"> Active ingredient: <i>Bacillus amyloliquefaciens</i> Better uptake of phosphate.
V¹² Initiate	<ul style="list-style-type: none"> 2 days before planting as a seedling drench OR at planting. Repeat again at 2 weeks. 	<ul style="list-style-type: none"> Application rate: 50 - 100 g Seedling drench: 2 L per 250 plants OR Soil drench: 125 ml per seedling. 	<ul style="list-style-type: none"> Speciality nutrition for early growth. Sets a nutrient platform for enhanced growth, strength and increased crop potential. Very effective in poor soils.
Humate Granules (for depleted soils)	<ul style="list-style-type: none"> When applying fertilizer OR at planting. 	<ul style="list-style-type: none"> Fertiliser blend 50 g/1 kg, mix with compost/fertiliser Drench at planting: 5 g/5 L, mix well. 	<ul style="list-style-type: none"> Carbon based soil conditioner. Improves efficiency of fertiliser maximising nutrient utilisation. Stimulates beneficial microbes.

*Can be mixed and applied together using the same container/application system.

Plant Vitality and Maintenance Program

Product	When	How	Why
AgriSil K50®	<ul style="list-style-type: none"> 2 days before planting as a foliar spray OR at planting. Repeat every 2 weeks. 	<ul style="list-style-type: none"> Application Rate: 150 ml/10 L (1 - 4 L/ha, min. dilution 1:100). Foliar spray, full cover to point of run off. Soil drench or foliar spray every 2 weeks. 	<ul style="list-style-type: none"> Silica supplement. Improved handling of abiotic and biotic stress conditions. Induces systemic acquired resistance and root development.
V12 Shoot	<ul style="list-style-type: none"> 1 week after transplant. Repeat again in 2 weeks. 	<ul style="list-style-type: none"> Application rate: 50 ml/ 10 L (0.5 - 1 L/ha), min. dilution 1:100). Foliar spray, full cover to point of run off. 	<ul style="list-style-type: none"> Plant nutrition containing triacontanol to stimulate vegetative growth.
V12 Multi®	<ul style="list-style-type: none"> 2 weekly after the last shoot application. 	<ul style="list-style-type: none"> Application rate: 50 - 100 ml/ 10 L (3 - 5 L/ha, min. dilution 1:100). Foliar spray, full cover to point of run off. 	<ul style="list-style-type: none"> 'All-in-one' vitality plant food. Balanced mixture of various nutritional elements and amino acids for enhanced growth and stress relief.

Bio Crop Protection, Pest/Disease Control Program

Product	When	How	Why
Eco-Bb®	<ul style="list-style-type: none"> Spray at first sign of insect pests. Repeat weekly while pest is present (Minimum of 3 sprays required). 	<ul style="list-style-type: none"> Application rate: 10 g/ 10 L. Apply as full cover foliar spray including underside of leaves. Must make contact with targeted pests. Spray early morning or late afternoon. 	<ul style="list-style-type: none"> Active ingredient: <i>Beauveria bassiana</i>. Suppression of whitefly, red spider mite, leafminer, <i>tuta absoluta</i> and FCM on crops as listed on the label. No withholding periods and suitable for organic use.
Delfin® WG	<ul style="list-style-type: none"> Spray at first sign of larvae/caterpillar activity. Repeat weekly while pest is present (Minimum of 3 sprays required). 	<ul style="list-style-type: none"> Application rate: 20 - 40 g/ 10 L (1 kg/ha in 250 - 500 L water). Foliar spray. Apply as full cover spray on feeding areas. Must be ingested by targeted pest. Spray early morning or late afternoon. 	<ul style="list-style-type: none"> Active ingredient: <i>Bacillus thuringiensis</i>. Suppression of various lepidoptera larvae on crops as listed on the label.
Boldex®	<ul style="list-style-type: none"> Spray at first sign of African bollworm activity. Repeat weekly while pest is present. 	<ul style="list-style-type: none"> Application rate: 4 - 8 ml/10 L (200 ml/ha in 250 - 500 L water). Apply as full cover spray. Must make contact with targeted pest. Spray early morning or late afternoon. 	<ul style="list-style-type: none"> Active ingredient: <i>Helicoverpa armigera</i> nucleopolyhedrovirus (HearNPV). Control of African bollworm on all crops.
Double Nickel®55	<ul style="list-style-type: none"> Treat preventatively when conditions favour fungal outbreaks OR at first sign of disease. Apply weekly while conditions are favourable for fungal diseases. 	<ul style="list-style-type: none"> Application rate: 20 - 80 g/ 10 L (1 kg/ha in 250 - 500 L water). Foliar spray. Apply as full cover spray including underside of leaves. Spray early morning or late afternoon. 	<ul style="list-style-type: none"> Active ingredient: <i>Bacillus amyloliquefaciens</i>. Suppression of <i>Botrytis</i>, powdery and downy mildew on crops as listed on the label.
Eco-77®	<ul style="list-style-type: none"> Spray at first sign of <i>botrytis</i>. Minimum of 3 sprays required at one week intervals. 	<ul style="list-style-type: none"> Application rate: 5 g/10 L. Foliar spray, apply as full cover spray. Spray early morning or late afternoon. 	<ul style="list-style-type: none"> Active ingredient: <i>Trichoderma atroviride</i>. Suppression of <i>Botrytis</i> on crops as listed on the label.

DISCLAIMER: Although these products have been tested under a variety of conditions, the supplier does not warrant that it will be efficacious under all conditions. Because some active ingredients are living organisms, the products' action may be affected by storage, handling, climatic or soil conditions. The supplier is also not responsible for poor performance of the product due to failure of the user to follow the label instructions. This naturally-occurring organism should not cause damage to crops, vegetation or the environment, nor harm to man and animals. However, in the unlikely event of this happening, the supplier does not accept responsibility for any damage that may occur.

AgriSil® K50 contains potassium silicate. Reg. No. B3756, Act No. 36 of 1947. skin irritant. PQ Silicas South Africa (Pty) Ltd, PO Box 14016, Wadeville, 1422. Reg. No. 2000/027189/07. Humate Granules contains humic acid and potassium. Reg. No. B4797; RhizoVital® 42 contains *Bacillus amyloliquefaciens* FZB42. Reg. No. B4201; V¹² Initiate contains potassium, sulphur, calcium, magnesium, manganese, zinc, iron, silica, copper, molybdenum and boron. Reg. No. B4513; V¹² Multi® contains nitrogen, phosphorus, potassium, sulphur, magnesium, iron, copper, zinc, manganese, boron and molybdenum. Reg. No. K4512; V¹² Shoot contains nitrogen, magnesium, sulphur, iron, manganese and molybdenum. Reg. No. B4510; Boldex® contains *Helicoverpa armigera* Nucleopolyhedrovirus (HearNPV). Reg. No. L8895; Delfin® WG contains *Bacillus thuringiensis* subsp. *kurstaki* strain SA-11. Reg. No. L9761; Double Nickel® 55 contains *Bacillus amyloliquefaciens* strain D747. Reg. No. L10053, Act No. 36 of 1947. Andermatt Madumbi (Pty) Ltd, Postnet Suite 20, Private Bag X6011, Hilton 3245 Reg. No. 2009/020798/07. Eco-T® contains *Trichoderma asperellum*. Reg. No. L6938; Eco-77® contains *Trichoderma atroviride*. Reg. No. L7495; Eco-Bb® contains *Beauveria bassiana*. Reg. No. L8469, Act No. 36 of 1947. Andermatt PHP (Pty) Ltd, PO Box 207, Nottingham Road, 3280. Reg. No. 2003/007987/07.