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(Spirodiclofen 240g/L)

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BIOLOGICAL INSECTICIDES

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>BIO CATCH</p>	Verticillium (Lecanicillium) Lecanii 1.5% LF 1.0x10 ⁹ cfu/ml	Contact action, destroys the insect tissue via fungal growth.	Biological insecticide for the control of whiteflies, aphids and thrips French beans, aphids and thrips on roses.	UNF	80ml/20L (4L/ha)	-	U	PCPB(CR) 1443
 <p>BIO MAGIC 1.5LF</p>	Metarhizium anisopliae 1.0x10 ⁹ cfu/ml	It's a contact Biopesticide which on landing on the recognized host, the spores germinate and grow through the cuticle to the haemolymph thus draining nutrients and eventually killing the insect within 3-5 days.	Biological insecticide for control of thrips, whiteflies, mealybugs and scales on vegetables, herbs, cereals and ornamental crops.	UNF	80ml/20L (4L/ha)	-	U	PCPB(CR) 1624
 <p>BIO POWER 1.5</p>	Beauveria bassiana 1.0x10 ⁷ cfu/ml	The spore of the fungus germinates and grows directly through the spiracle in the cuticle into the inner body of the host hence killing it. The fungus using nutrients from the insect proliferates and colonizes the entire insect and thus drains the insect of nutrients and the infected insects eventually dies.	Biological insecticide for control of thrips, whiteflies, aphids, grasshoppers, beetles, caterpillars on vegetables, cereals, pulses, fruit trees and ornamental crops.	UNF	60ml/20L (3L/ha)	-	U	PCPB(CR) 1364

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 HALT NEO 5%WP	Bacillus thuringiensis var kurstaki	Stomach poison. Microbial disruptor of insect midgut membranes.	Biopesticide for control of African bollworm and thrips on French beans and Fall armyworm in maize,	11A	10g/20L (500g/ha)	-	U	PCPB(CR) 1959
 NIMBECIDINE	Azadirachtin 0.03%	Antifeedant, repellent oviposition deterrent, Insect Growth regulator & sterilant.	Insecticide/Nematicide for the control thrips, aphids & whiteflies on Roses; aphids, leafminers, whiteflies, spidermites, Tuta absoluta on tomatoes. Also drench applied to control cutworms, weevils and wire worms on tomatoes; aphids, whiteflies and leaf beetles in Tobacco; nematodes on Roses, tomatoes and French beans.	UN	60ml/20L (3L/ha)	-	U	PCPB(CR) 0471

INSECTICIDES

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 ACCENT 600SC	Imidacloprid 600g/L	Binds to the acetylcholine site on nicotinoyl acetylcholine receptors (nAChRs), causing a range of symptoms from hyperexcitation to lethargy and paralysis.	Insecticide for control of aphids, thrips, whiteflies and mealybugs in roses	4A	1.5ml/20L (75ml/ha)	7 Days	III	PCPB(CR) 1842
 AGRINATE PLUS 20 SP	Methomyl 20%	Inhibition of acetylcholinesterase.	Insecticide for the control of aphids, thrips & whiteflies in Roses.	1A	25g/20L (1.25kg/ha)	7 - 10 Days	I	PCPB(CR) 1416
 ALFETA 300SC	Alpha-cypermethrin 200g/L + Acetamiprid 100g/L	A pyrethroid and Neonicotinoid based insecticide with contact and stomach action.	Thrips, aphids and whiteflies and caterpillars on roses.	3A+4A	2.5ml/20L (125ml/ha)	7 Days	III	PCPB (CR)2213

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>ATOM 2.5EC</p>	Deltamethrin 25g/L	Non-systemic insecticide active by both contact and ingestion. Fast-acting with knockdown.	Insecticide for the control thrips, aphids on French beans; caterpillars and aphids on roses.	3A	10ml/20L (500ml /ha)	1 Day	II	PCPB(CR) 0260
 <p>BETAFOS 263EC</p>	Beta Cyfluthrin 12.5g/L + Chlorpyrifos 250g/L	Non-systemic insecticide active by contact and ingestion. Rapid knockdown and long residual activity.	An agricultural insecticide for the control of thrips, aphids, whitefly nymph and caterpillars on Roses; and aphids in cotton. NOT FOR FOLIAR USE ON FRUITS AND VEGETABLES.	3A & 1B	10ml/20L (500ml /ha)	14 Days	II	PCPB(CR) 0760
 <p>BETACYDE 25EC</p>	Beta cyfluthrin 2.5%	Non-systemic insecticide active by contact and ingestion. Rapid knockdown and long residual activity.	Insecticide for control of aphids, thrips, caterpillars and whiteflies on roses.	3A	10ml/20L (500ml /ha)	Tomato 3 Days, Cabbage 1 Day, Maize 14 Days, Tobacco 7 Days	II	PCPB(CR) 1506
 <p>CLIMB 18EC</p>	Abamectin 18g/L	Insecticide, acaricide and nematocide active by both contact and ingestion, limited systemicity, but exhibits translaminar mobility.	Miticide for control of spidermites in roses.	6	10ml/20L (500ml /ha)	7 Days	II	PCPB(CR) 2055
 <p>CYCLOTRON 450EC</p>	Alpha-Cypermethrin 10% + Malathion 35%	Non-systemic insecticide and acaricide active by contact, ingestion and respiration.	Insecticide for the control of thrips, whiteflies, caterpillars and aphids on French beans and thrips, whiteflies and aphids on roses.	3A & 1B	7.5ml/20L (250ml /ha)	RE-12 hrs. PHI-3 Days on most crops	II	PCPB(CR) 2084

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>CYROGUARD 75 WP</p>	Cyromazine 750g/Kg	Systemic insect growth regulator active by contact, absorbed by roots and translocated acropetally in the xylem, when applied to the soil, translaminar mobility, when applied to leaves. Interferes with moulting and pupation.	Insecticide for control of leaf miner on French beans, roses and cabbages; Diamond back moth in brassicacae; thrips on roses and Tuta absoluta in tomatoes.	14	4.5g/20L (159-225g/ha)	RE-6 hrs. PHI-3 days on most crops	III	PCPB(CR) 0520
 <p>DEGREE MAX 200EC</p>	Alpha-cypermethrin 200 g/L	Non-systemic insecticide active by contact and ingestion	Insecticide for the control of thrips, whiteflies, aphids & caterpillars on roses.	3A	2.5ml/20L (125ml/ha)	7 Days	II	PCPB(CR) 1933
 <p>DYNAMO 70%WG</p>	Imidacloprid 700g/kg	Systemic insecticide active by both contact and ingestion, absorbed by roots and foliage, translocated acropetally in the xylem and by translaminar mobility.	Insecticide for control of thrips on roses.	4A	3gm/20L (150g/ha)	7 Days	III	PCPB(CR) 1521
 <p>FINAL FLIGHT 25WG</p>	Thiamethoxam 250g/kg	Broad spectrum, systemic with contact and stomach action.	Insecticide for the control of white flies, aphids and thrips on roses; cucumber beetle, whiteflies and leaf miner on courgette; cutworms and aphids in cabbage, thrips, whiteflies, aphids and leafminer in pepper, aphids, thrips, whiteflies & leaf miners in French beans; for the control of aphids and thrips on tomatoes.	4A	4-8g/20L (200-400g/ha)	RE-4 hrs; PHI: French beans, cabbages - 7 days cucurbits, and pepper - 3 days, Tomatoes - 3 days.	III	PCPB(CR) 1392
 <p>FIREWORKS 90SC</p>	Indoxacarb 60g/L + Abamectin 30g/L	Contact and stomach action with limited systemic activity.	Insecticide for control of thrips, spidermites and caterpillars on roses, of thrips in pepper, african bollworms and leafminers in tomatoes.	22A & 6	8ml/20L (250ml/ha)	3 Days	III	PCPB(CR) 1831

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>FORAY 300SC</p>	Imidacloprid 25 g/L + Bifenthrin 50 g/L	Acts as inhibitor at nicotinic acetylcholine receptors in the nervous system.	African bollworm, aphids, thrips, leafminers and whiteflies.	4A & 3A	5mls/20L (250ml/ha)	7 Days	II	PCPB (CR)2125
 <p>GUANO 340SC</p>	Indoxacarb 140 g/L + Thiamethoxam 200 g/L	Voltage dependant sodium channel blockers, Interfering with nicotinic acetyl choline receptors.	Aphids, thrips, white flies, caterpillars, spider mites and mealybugs.	22A+4A	4ml/20L (0.2L/ha)	7 Days	II	PCPB (CR)2117
 <p>LOTUS 75%SP</p>	Acephate 750 g/kg	Broad-spectrum, contact and ingestion systemic action.	Insecticide for control of aphids, thrips, and Whiteflies on roses; Fall armyworm on maize.	1B	15g/20L 750g/Ha	21 Days	III	PCPB(CR) 1693
 <p>MAGESTIK 700WG</p>	Acetamiprid 700g/kg	Systemic with translaminar activity having both contact and stomach action.	Insecticide for control of aphids, whiteflies and thrips on roses, capsicum, broccoli, cabbage, tomatoes, courgettes and French beans, aphids, thrips, whiteflies and leafminers in tomatoes and snow peas, thrips in onions.	4A	1g/20L (50g/ha)	7 Days	III	PCPB(CR) 1894
 <p>MAGNUM GOLD</p>	Organosilicone (Polyether modified Trisiloxane 80%	Contains Polyalkylene oxide modied heptamethyl trisiloxane which is an organosilicone which acts by suffocation of the insects.	An organosilicone miticide for the control of Red spider mites on roses.	-	15ml/20L (750ml/ha)	REI 6 Hrs	U	PCPB(CR) 1434

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>MANIQUE 20%SL</p>	Acetamiprid 200g/L	Systemic with translaminar activity having both contact and stomach action.	Insecticide for the control of thrips, whiteflies and aphids on roses, thrips, aphids, whiteflies and leaf miners on tomatoes and snow peas, thrips, aphids, whiteflies on capsicum.	4A	5ml/20L (250ml/ha)	7 Days	III	PCPB(CR) 1870
 <p>MOHICAN 570EC</p>	Malathion 57 w/v	It is a cholinesterase inhibitor. It is non-systemic and combines contact, stomach and respiratory action.	Aphids and Diamond back moth	1B	40ml/20L (2L/ha)	14 days	II	PCPB (CR)2120
 <p>OSHOTHION 50EC</p>	Malathion 500g/L	Broad-spectrum, non-systemic with contact, stomach and respiratory action. Acetylcholinesterase (AChE) inhibitor.	Insecticide for the control of thrips and aphids on French beans and roses.	1B	40ml/20L (2L/ha)	14 Days	II	PCPB(CR) 0428
 <p>PASSWORD 5.7%WDG</p>	Emamectin benzoate 57 g/ Kg (equivalent to Abamectin aminomethyl 5%)	Non-systemic, acts by causing insect paralysis by suppressing muscle contraction.	Insecticide/Miticide for the control of thrips, spidermites and caterpillars (<i>Helicoverpa armigera</i>) on roses, thrips, spidermites and bollworms in French beans and tomatoes, diamondback in cabbage.	6	2.7g/20L (135-200g/ha)	7 Days	II	PCPB(CR) 2075
 <p>PROTEST 200SL</p>	Imidachloprid 200g/L	Systemic insecticide active by both contact and ingestion, absorbed by roots and foliage, translocated acropetally in the xylem and by translaminar mobility.	An insecticide for the control of aphids, thrips and whiteflies on roses, thrips, whiteflies, bean fly, leaf miner and aphids on French beans, thrips, whiteflies and aphids on tomatoes French bean.	4A	10ml/20L (500ml/ha)	3 Days	II	PCPB(CR) 1987

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 <p>RELAY 150SC</p>	Emamectin Benzoate 50 g/L + Indoxacarb 100 g/L	Non-systemic, acts by causing insect paralysis by suppressing muscle contraction. Contact and stomach action.	Insecticides for the control of thrips & caterpillars in roses & Fall armyworm in maize, aphids, whiteflies, thrips, spidermites in watermelon, thrips, spidermites caterpillars in French beans, thrips, spidermites, Tuta absoluta in tomatoes, aphids & whiteflies in cucumber, diamond backmoth in cabbage and false codling moth in capsicum.	6 & 22A	2ml/20L (100ml/ha)	7 Days	III	PCPB(CR) 1937
 <p>SEGATRON ULTRA</p>	Paraffin oil 98%	Contact action, eggs covered by an oil film are starved of oxygen and so do not hatch.	Insecticide for control of aphids on roses, French beans and tomatoes; whiteflies – roses, French beans and tomatoes; mealybugs on roses and pineapples; leafminers on French beans and tomatoes; spidermites on roses, thrips, leafminers and green scales in coffee.	UNM (NON-SPECIFIC MECHANICAL AND PHYSICAL DISRUPTORS)	50ml/20L (2.5L/ha)	0 Days	U	PCPB(CR) 1545
 <p>SHOTGUN 20%SP</p>	Acetamiprid 200g/kg	Systemic with translaminar activity having both contact and stomach action.	Insecticide for the control of thrips, aphids and white flies on roses and carnations; aphids on broccoli, capsicum, snowpeas and cabbage; whiteflies, aphids on French beans and cucumber; thrips on onions and whiteflies on tomatoes.	4A	4g/20L (100-200g/ha)	3 - 7 Days	III	PCPB(CR) 1670
 <p>SKANA SUPER</p>	Malathion 2.0% w/w + Permethrin 0.3% w/w	Broad-spectrum, non-systemic with contact, stomach and respiratory action. Slight repellent effect.	Insecticide for use in stored grains against common pests including the larger grain borer.	1B & 3A	50g/90kg bag	-	II	PCPB(CR) 0419
 <p>STIRRUP 247SC</p>	Lambda-cyhalothrin 106 g/L+ Thiamethoxam 141 g/L	Broad spectrum, contact and stomach action. Some repellent properties.	Insecticide for control of aphids, mealybugs and whiteflies on roses, aphids and whiteflies on capsicum and tomatoes, aphids and caterpillars on cabbages, aphids, thrips and whiteflies on French beans.	3A & 4A	8ml/20L (150ml/ha)	3 - 5 Days	III	PCPB(CR) 1729

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 <p>SULBAN 48EC</p>	Chlorpyrifos 480g/L	A non-systemic insecticide with contact, stomach & respiratory action.	Insecticide to be used as drench for control of mealy bugs in pineapple planting material (crown).	1B	75ml/20L (1.5L/400L)	3 - 7 Days	II	PCPB(CR) 0758
 <p>TREMOR GR0.05</p>	Beta-cyfluthrin 0.5g/Kg	Non-systemic with contact and stomach action.	Insecticide for control of maize stalk borer.	3A	0.12g/ Plant (2.5kg/ Acre) (6kg/Ha)	21 Days	U	PCPB(CR) 0759
 <p>TROOPER 110SC</p>	Abamectin 10 g/L + Cyromazine 100g/L	Contact and stomach action with limited systemic activity, interfering with moulting and pupation.	Miticide for control of spidermites on roses.	6 & 17	15ml/20L (750ml/ha)		III	PCPB(CR) 2043
 <p>SIYAPPA 240SC</p>	Spirodiclofen 240 g/L	Selective, non-systemic, distrupts mite development.	Insecticide/miticide for control of spider mites on roses, tomatoes and pepper.	23	10ml/20L (0.5L/ha)		III	PCPB(CR) 1995
 <p>UMEME TOP 50EC</p>	Lambda-cyhalothrin 50 g/L	Non-systemic, contact and stomach action. Some repellent properties.	Insecticide for control of aphids, thrips, whiteflies and caterpillars on Roses and Tomatoes, Fall armyworm on maize, Diamond Back moth, caterpillars, cutworms and aphids in cabbage.	3A	8ml/20L (0.4L/ha)	3 - 21 days	II	PCPB(CR) 1814

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 VIKING 50CS	Lamda cyhalothrin 50g/L	It works by contact and stomach action and it possess some repellent and antifeedant action. It exhibits long residual activity and has superior control of chewing and sucking pests at low rates.	Aphids, thrips, whiteflies, and caterpillars.	3A	8ml/20L (200ml/ha)	RE- 12 hrs; PHI: 7 days	III	PCPB (CR)2146
 WINNER 100EC	Deltamethrin 100 g/L	Non-systemic insecticide active by both contact and ingestion. Fast-acting with knockdown.	Insecticide for the control of aphids, thrips and whiteflies on roses, pepper, French beans, snowpeas and cucumber, aphids and diamond back moth on cabbage.	3A	2.5ml/20L (125ml/ha)	3 - 7 Days	II	PCPB(CR) 1966
 XPAND MAX 92%SG	Acephate 920g/kg	Broad-spectrum, contact and ingestion systemic action.	Insecticide for control of aphids, thrips and whiteflies on roses, Fall armyworm in maize.	1B	10g/20L (500g/ha)	21 Days	II	PCPB(CR) 1735

BIOLOGICAL FUNGICIDES

 BIO CURE - B (LIQUID)	Pseudomonas fluorescens 1.75% w/w 1.0x10 ⁸ cfu/g	It controls the pathogen by: -Substrate Competition: It controls via competition for food and nutrients. - Antibiosis: Secretion of Secondary metabolites which exhibits antagonistic effects.	Biological fungicide for the control of <i>Pythium spp.</i> , <i>Rhizoctonia solani</i> , <i>Fusarium spp.</i> , <i>Botrytis cinerea</i> , <i>Sclerotium rolfsii</i> , and <i>Sclerotinia</i> on vegetables, herbs, cereals and ornamental crops.	BM02	60ml/20L (3L/ha)	-	U	PCPB(CR)
 BIO CURE - F (LIQUID)	Trichoderma viride strain TV-1.15x10 ⁷ cfu/g	Has several modes of action that includes Substrate Competition: Bio-Cure-F controls via competition for substrates, nutrients and the like, Mycoparasitism: attacks disease -causing pathogen before they reach the root system, Antibiosis: secretion of secondary metabolites which exhibit antibiosis effect on the pathogen.	Biological fungicide for control of <i>Pythium spp.</i> , <i>Rhizoctonia solani</i> , <i>Fusarium spp.</i> , <i>Botrytis cinerea</i> , <i>Sclerotium rolfsii</i> , and <i>Sclerotinia</i> on vegetables, cereals, pulses, fruit trees, ornamental crops.	BM02	60ml/20L (3L/ha)	-	U	PCPB(CR) 1624

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 BIO DEWCON 1.50% LF	Ampelomyces quisqualis 1x10 ⁸ cfu/gram	Competition for food in the substrate.	A biological fungicide for the control of powdery mildew and downy mildew in roses; and powdery mildew on snow peas and courgette.	BM03	60ml/20L (3L/ha)	-	U	PCPB(CR) 0941
 BIO NEMATON	Paecilomyces lilacinus 1.5%) = 1x10 ⁸ cfu/ml	The spore infects, parasitize and kills eggs, juveniles and young adults of most phytophagous nematode species. The spore when in contact with different stages of the nematodes, they germinate and grow and proliferate throughout the nematode eventually paralyzing and killing the nematode.	A biological nematicide for the control of Root knot, cyst and burrowing nematodes on vegetables, cereals, pulses, fruit trees and ornamental crops.		Liquid: 5-6ltr/ha. Powder: 5-8kg/ha	-	U	PCPB (CR)1308

FUNGICIDES

 COMPANION 75WP	Mancozeb 630 g/kg + Carbendazim 120 g/L	Broad spectrum, Systemic with curative and protectant activity.	Fungicide for control of Downy Mildew and Botrytis on Roses.	M 03 & 1	30g/20L (1.5kg/ha)	14 Days	III	PCPB(CR) 1618
 CONTROL 70WDG	Thiophanate Methyl	Systemic fungicide with protective and curative activity, absorbed by leaves and roots.	Fungicide for the control botrytis in roses.	1	12g/L (600g/ha)	10 Days	III	PCPB(CR) 0594
 ENRICH BM	Bronopol 27% w/w	Broad spectrum Immunomodulator cum plant defence activator with prophylactic and preventive properties in controlling the bacterial diseases among crops.	An agricultural bactericide for the control of bacterial wilt on tomatoes and potatoes, halo blight on French beans; bacterial soft rot in brassicas.	-	20g/60L (140g/ha)	7 days	II	PCPB (CR)0995

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 <p>FLOSUL PLUS</p>	Sulphur 80g/L	Non-systemic, protective fungicide with contact and vapour action.	Powdery mildew	-	20-40 ml/20Lts (1-2 Ltrs/ha)	3 days	II	PCPB (CR)0270
 <p>FUNGINIL 720SC</p>	Chlorothalonil 720g/L	Non-systemic, broad-spectrum, foliar action with some protectant properties.	Fungicide for control of botrytis & downy mildew in roses.	M05	4ml/20L (2L/ha)	-	III	PCPB(CR) 1664
 <p>GOLDEN PILLAR 525WDG</p>	Cymoxanil 300 g/Kg + Famoxadone 225 g/Kg	Inhibits sporangial differentiation, synthesis of nucleic acids, amino acids, and other cellular processes in fungi lifecycle.	Early blight, late blight, powdery mildew, and downy Mildew.	27 & 11	8g/20L (400g/ha)	7 Days	III	PCPB (CR)2141
 <p>KLASSIC 5%EC</p>	Hexaconazole 50 g/L	Broad spectrum, systemic with protective and curative action.	Fungicide for control of black spots and powdery mildew in roses.	3	20ml/20L (1L/ha)	14 Days	II	PCPB(CR) 1601
 <p>LADDER 800WDG</p>	Fosetyl-aluminium 80%w/w	Systemic, absorbed through leaves and roots.	Fungicide for the control of downy mildew on courgette and roses; Phytophthora root and crown root on avocado.	P 07	60g/20L (3kg/ha)	7 Days	III	PCPB(CR) 2188

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>MATCO 72WP</p>	Metalaxyl 80g/Kg + Mancozeb 640g/Kg	Broad spectrum, Systemic with curative and protectant activity.	Fungicide for the control of powdery mildew on roses, early blight and late blight on tomatoes and potatoes, downy mildew and purple blotch on onions, damping off and black spot on cabbage.	4 & M 03	50g/20L (2.5kg/ha)	14 Days	III	PCPB(CR) 1338
 <p>MASTERPHITE 507SL</p>	Potassium phosphite 500g/L + Metalaxyl 7g/L	Metalaxyl: It inhibits the growth of mycelium, the formation of spores and haustoria and establishment of new infection. Potassium phosphite is an inorganic phosphonate compound with direct toxicity to plant pathogens reducing populations and promotion of plants natural defences.	A fungicide for the control of late blight on tomatoes, downy mildew in roses.	24B	60ml/20L (3L/ha)	3 Days	II	PCPB(CR) 2276
 <p>MISTRESS 72WP</p>	Cymoxanil 8% + Mancozeb 64%	Broad spectrum, Systemic with curative and protectant activity.	Fungicide for the control of Early & Late blight in potatoes & tomatoes; downy mildew in Roses & courgette.	27 & M 03	40g/20L (1.5-2.5KG /ha)	10 Days	IV	PCPB(CR) 0738
 <p>OSHOTANE 80WP</p>	Mancozeb 800g/Kg	Broad spectrum, non-systemic, contact with protective action.	Fungicide to control early and late blight on tomatoes & potatoes.	M 03	50g/20L (2.5kg/ha)	7 Days	IV	PCPB(CR) 0339
 <p>OSHOTANE PLUS 75WDG</p>	Mancozeb 750g/Kg	Broad spectrum, non-systemic, contact with protective action.	Fungicide for the control of :- i) Early & late blight on potatoes ii) Botrytis, anthracnose & septoria leaf spot on tomatoes iii) Botrytis & leaf spot on onions iv) Botrytis, anthracnose & angular leaf spot on French beans. v) Botrytis & black spot on roses.	M 03	40g/20L (1.5 2.0kg /ha)	5-10 Days	III	PCPB(CR) 0864
 <p>PEARL 500SC</p>	Carbendazim 500g/L	Systemic with curative and protectant activity.	Fungicide for control of powdery mildew, botrytis and black spots in roses.	1	20ml/20L (1L/ha)	7 Days	II	PCPB(CR) 1827

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>POTPHOS 500SL</p>	Potassium phosphite 500 g/L	Mixed mode of application including direct toxicity to plant pathogens reducing populations and promotion of plants natural defences.	Fungicide for the control of Downy mildew in roses and snow peas; Early and Late blight in potatoes; Late blight in tomatoes; Phytophthora rot in pineapples,	P 07	60ml/20L (3L/ha)	-	IV	PCPB(CR) 1985
 <p>PREQUEL 720WP</p>	Dimethomorph 120 g/Kg + Mancozeb 600 g/Kg	Broad spectrum, Systemic with good protective activity.	Fungicide for the control of downy mildew in roses; Phytophthora Blight and powdery mildew on sweet pepper, early blight and late blight in potatoes and tomatoes.	40 & M03	40g/20L (2kg/ha)	-	III	PCPB(CR) 2032
 <p>SHADOW 750WDG</p>	Trifloxystrobin 250 g/Kg + Tebuconazole 500 g/Kg	Broad spectrum, Systemic fungicide with preventative and curative action and eradicant activity.	Fungicide for the control of powdery mildew and downy mildew on courgettes; powdery mildew on roses.	11 & 3	6g/20L (300g/ha)	-	III	PCPB(CR) 2045
 <p>PALM BRAND DUSTING SULPHUR</p>	Sulphur 99% w/w	Broad-spectrum with contact and vapour action with protectant properties. Multi-site activity.	Fungicide for use in flowers against powdery mildew.	M 02	24-35KG/ha	-	III	PCPB(CR) 0438
 <p>TOKEN 325SC</p>	Azoxystrobin 200g/L + Difenconazole 125g/L	Systemic translaminar and protectant action having additional curative and eradicant properties.	Fungicide for control of powdery mildew and botrytis in roses, early and late blight in tomatoes and potatoes, anthracnose, angular leaf spot and rust in French beans, rust, purple blotch and downy mildew in onions, powdery mildew and downy mildew in water melons, ascochyta leaf spots and powdery mildew in snow peas.	11 & 3	10ml/20ml (500ml/ha)	7 Days	II	PCPB(CR) 1822

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>TOPCOP 50WP</p>	Copper Oxychloride 85% (equivalent to 57% metallic copper)	Non-systemic, foliar fungicide with protective activity.	Fungicide for control of early blight and late blight in potatoes; angular leaf spot, anthracnose, bean rust, bacterial blight and sclerotinia in French beans, coffee berry disease and coffee leaf rust in coffee.	M 01	50g/20L (2.5kg/ha)	3 Days	III	PCPB(CR) 1850
 <p>TOPRANK 722SL</p>	Propamocarb hydrochloride 722g/L	Systemic fungicide with protective activity, absorbed by roots and leaves, translocated acropetally in the xylem.	Fungicide for the control of downy mildew on roses.	28	50ml/20L (2.5L/ha)	REI 12 Hrs	II	PCPB(CR) 2099
 <p>WETSULF JET 80%WDG</p>	Sulphur 80% w/w	Broad-spectrum with contact and vapour action with protectant properties. Multi-site activity.	Fungicide for the control of downy mildew & powdery mildew on roses.	M 02	30-40g/20L (1.5-2.0kg/ha)	REI 24 Hrs PHI 7 Days	IV	PCPB(CR) 1921

HERBICIDES

 <p>D-AMINE 72SL</p>	2,4 D-Amine 720g/L	Selective, systemic, absorbed through roots and increases biosynthesis and production of ethylene causing uncontrolled cell division and so damages vascular tissue. Synthetic auxin.	Broad-leaved weeds.	4	120ml-150ml/20L (1.5-2.5L/ha)	30 Days	III	PCPB(CR) 0753
 <p>GLUSAR 18%SL</p>	Glufosinate-ammonium 180 g/L	Non-selective, contact with some systemic action.	Post-emergence herbicide for control of annual grasses and broad-leaved weeds in maize.	10	240ml/20L (3L/ha)	95 Days	III	PCPB(CR) 1811

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>HERBIKILL 200SL</p>	Paraquat dichloride 20% w/v	Broad-spectrum, non-residual activity with contact and some desiccant action.	Herbicide to control annual and perennial weeds in orchards, plantation crops, forests, in vegetable fields and in pasture renovation.	22	100ml/20L (2L/ha)	48-90 Days	II	PCPB(CR) 0480
 <p>KICK OUT 480SL</p>	Glyphosate IPA 41%	Broad-spectrum, systemic, contact action translocated and non-residual.	Herbicide for use in control of grasses, broad leaved weeds in maize.	9	200-300ml /20L	REI 12 Hrs PHI 7-14 Days	III	PCPB(CR) 1132
 <p>KOLOPA 300 OD</p>	Nicosulfuron 30 g/L + Mesotrione 70 g/L + Atrazine 200 g/L	Selective post-emergence herbicide for the control of grasses and broadleaf weeds under minimal tillage.	Weeds and annual grasses.	14	75-100ML /20L (1.5L/ha)	45 Days	II	PCPB (CR)2122
 <p>MOTO PLUS 75WDG</p>	Metribuzin 750g/kg	Selective, systemic with contact and residual activity. Inhibits photosynthesis.	Pre-emergence herbicide for control of broadleaf weeds and grasses in tomatoes.	5	40g/20L (750g/ha)	30 Days	III	PCPB(CR) 1522
 <p>OXYGOLD 24EC</p>	Oxyfluorfen 240 g/L	Selective with contact action.	Pre-emergence herbicide against broad leaved weeds and grass weeds in tomatoes, cabbages and onions.	14	50ml/20L (1L/ha)	45 Days	III	PCPB(CR) 1316

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>STRETCH 20WP</p>	Metsulfuron-Methyl 20% w/w	Selective, systemic with contact and residual action.	Post-emergence herbicide for the control of broad leaf weeds in wheat.	2	2g/20L (20g/ha)	-	II	PCPB(CR) 1152
 <p>WOUND-OUT NEO 680 SG</p>	Glyphosate 680 g/kg	Is a non-selective post-emergence herbicide for the control of annual and perennial grasses and broad-leaved weeds on maize at planting.	WOUND-OUT NEO 680SG has glyphosate that is in the glycine group. Glyphosate is non-selective herbicide that is absorbed through leaf surface and acts as an EPSP synthase inhibitor.	2A	120g/20L (1.5kg/ ha)	30 Days	U	PCPB(CR) 2286

ADJUVANTS, SPREADERS, WETTERS

 <p>AQUARIGHT 5</p>	Nonyl pHenol Ethoxylate 4.7% Buffer & Wetting systems 59.4%	AQUARIGHT-5 is a buffer to bring down pH of spray water and to enhance use of CLIMB 18EC against spider mites on roses.	AQUARIGHT-5 is for use with those agricultural remedies that require a slightly acidic environment for optimal performance.	-	10ml/20L (0.5L/ha)	-		PCPB (CR)1452
 <p>AQUAWET 15SL</p>	Nonylphenol ethoxylate 15%	Reduces the surface tension of the spray mixture, thus improving wetting properties.	Adjuvant for use as wetter/spreader.	-	10ml/20L	Re-entry 10-14 days	II	PCPB (CR)0493
 <p>HASTEN</p>	Polyalkylene oxide modied heptamethyl trisiloxone 800g/L	It is an organosilicone, non ionic based wetting agent that lowers the surface tension of spray solutions.	Controls powdery mildew on roses.	-	8ml/20L (0.4 L/ha)	-		PCPB (CR)1434 (i)

PLANT GROWTH REGULATOR

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target pests diseases (Registered uses)	IRAC/FRAC/HRAC CODE	Rate	PHI	WHO CLASS	PCPB NO
 <p>PLANTONE 45SL</p>	Sodium I-Naphthyl Acetic Acid 4.5% w/v	Plantone is a plant growth regulator used in flowering plants to induce flowering, prevent flower abortion and prevent premature fruit drop.	Plant growth regulator used in flowering plants to induce flowering, prevent flower abortion and prevent premature fruit drop.	-	4ml/20L (1L/ha)	-	III	PCPB (CR)1452

TERMITICIDES

 <p>BOMBADIER 360EC</p>	Permethrin 360g/L	Permethrin is a pyrethroid insecticide with contact and stomach action with limited systemic activity.	Termites	-	10ml/20L (0.5L/ha)	-	III	PCPB (CR)1452
 <p>MATADOR® 48%EC</p>	Chlorpyrifos 480g/L	It is a cholinesterase inhibitor with contact, stomach and respiratory action.	Termites	-	30ml/3L	-	II	PCPB (CR)1956

ANTITRANSPIRANT

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target/Action	Rate
 <p>GREEN MIRACLE</p>	Long chain fatty alcohol & amino Acids	Green Miracle functions primarily on the principle of reflecting the sun's rays.	Non-toxic, reflectant type of Antitranspirant and surfactant.	1ml/1L

BIOSTIMULANTS

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target/Action	Rate
 <p>BLACKEARTH 85WSG</p>	<p>Humic acid (dry basis): 85% Soluble K (K₂O dry basis): 11%+ Trace Elements >5%, Fe: 1%, Moisture: 13.2% , pH (in 1% soln.) 8-9</p>	<p>Help to make Phosphorous available to plants, Prevents leaching and improves soil structures.</p>	<p>i) Nutrient lock-up. ii) Leaching iii) Water retention iv) Soil structure</p>	<p>1-1.5Kg / 50kg of fertilizer.</p>
 <p>BRIMSTONE 90</p>	<p>90% Sulphur</p>	<p>Helps to reduce the PH of alkaline soils.</p>	<p>Sulphur Supplement Soil Buffering</p>	<p>10Kg/Acre</p>
 <p>OSHOZYME GRANULAR</p>	<p>Biological stimulant – seaweed extract (ascophyllum nodosum)</p>	<p>Increased chlorophyll content and enhanced photosynthesis, Enhanced nutrient uptake and utilisation, reduce intensity of oxidation reactions resulting from disease and harsh weather thus reducing plant.</p>	<p>i) Shoot sprouting. ii) Chlorophyll iii) Nutrient uptake iv) Plant stress</p>	<p>2.5 kg/ 50 kg of fertilizer (8 – 10 kg/ha)</p>
 <p>OSHOZYME LIQUID</p>	<p>Biological stimulant – seaweed extract (ascophyllum nodosum)</p>	<p>Increased chlorophyll content and enhanced photosynthesis, Enhanced nutrient uptake and utilisation, reduce intensity of oxidation reactions resulting from disease and harsh weather thus reducing plant.</p>	<p>i) Shoot sprouting. ii) Chlorophyll iii) Nutrient uptake iv) Plant stress</p>	<p>10ml/20L</p>
 <p>OSHBOR</p>	<p>Disodium octaborate Tetrahydrate Na₂B₄O₁₃.4H₂O 21% Boron</p>	<p>Highly soluble key micro-nutrient fertilizer to correct boron deficiency.</p>	<p>Correct boron deficiency.</p>	<p>1-2kg/Ha (30-50gm/20L)</p>

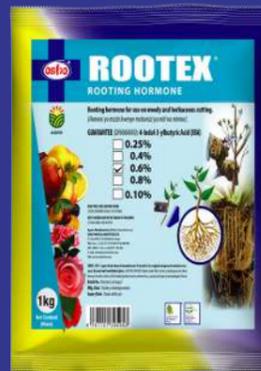
SOIL AMENDMENTS

PRODUCT IMAGE	ACTIVE INGREDIENT	Mode of Action	Target/Action	Rate
	100% Natural growing medium.	High water holding ability, which means less frequent watering, Improvement of the structure of the soil facilitating good air movement and drainage,	i) Seedling raising. ii) Water retention iii) Microbial activity iv) soil structure	5Kg / 14-17 Trays

COCO PEAT

ROOTING HORMONES

PRODUCT NAME	ROOTEX 0.1 %	ROOTEX 0.25 %	ROOTEX 0.4 %	ROOTEX 0.6 %	ROOTEX 0.8 %	ROOTEX 1.0 %
ACTIVE INGREDIENT	4-Indol-3-ylbutyric Acid (IBA) 0.1%	4-Indol-3-ylbutyric Acid (IBA) 0.25%	4-Indol-3-ylbutyric Acid (IBA) 0.4%	4-Indol-3-ylbutyric Acid (IBA) 0.6%	4-Indol-3-ylbutyric Acid (IBA) 0.8%	4-Indol-3-ylbutyric Acid (IBA) 1.0%



FOLIAR FEEDS

PRODUCT NAME	AGROFEED	EASYGRO STARTER	EASYGRO VEGETATIVE	EASYGRO CALCIUM	EASYGRO FLOWER & FRUIT
ACTIVE INGREDIENT	NPK 12:10:8 + TE) + 2% MgO + 4%S + Amino Acids, Biostimulants, Growth Hormones + 2% CaO	NPK 18:20:21+TE	NPK 27:10:16 +TE	NPK 14:0:2 +13% Calcium + Mg + TE)	NPK 14:11:33 +TE
	50ml/20L (2.5L/ha)	30-40 gms/20L (1- 3 kg/ha)	30-40 gms/20L (1- 3 kg/ha)	30-40 gms/20L (1- 3 kg/ha)	30-40 gms/20L (1- 3 kg/ha)



DISINFECTANTS AND DETERGENTS

PRODUCT NAME	KAL-SAN SR50	OSHOPOL
ACTIVE INGREDIENT	A new generation disinfectant containing hydrogen peroxide 50%, aqua, stabilizer and pH adjuster. to control fungi, Bacteria, algae and viruses	Blend of Anionic & non-ionic surfactants, Color, water (aqua) and Permitted preservatives.
	10ml/Litre of water	10-20 ml per 5L of water



SOLUBLE FERTILIZERS

PRODUCT NAMES	OLIGO NILA PREMIUM
	OLIGO FE EDDHA 6%
	EDTA CHELATED MN 13%
	EDTA CHELATED ZN 15%
	EDTA CHELATED CU 15%



SPRAYERS



SELECTA TRIGGER SPRAYER



OSHO DELUXE BUCKET SPRAYER



OSHO LEADER BUCKET SPRAYER



OSHO EVEREST BUCKET SPRAYER



OSHO STANDARD BUCKET SPRAYER



OSHO HILLOR ROCKING SPRAYER



JACTO KNAPSACK SPRAYER PJB - BATTERY OPERATED



JACTO MARCA HH5



JACTO KNAPSACK SPRAYER XP



OSHO EVEREST BUCKET SPRAYER



JACTO PJM - MOTORIZED KNAPSACK SPRAYER



SUITABLE FOR SMALL & LARGE FARMS

Jacto's XP16 knapsack sprayers combine comfort, durability, high efficiency, and a lightweight design



JACTO XP16

COMFORT & STRENGTH

New Trigger Valve

Rugged lightweight design easily conforms to your hand for all-day work.

Stainless Steel Wand

Very durable, chemical and corrosion resistant.

Resistance and Durability

Impact, chemical and UV resistant high density polyethylene material.

Hydraulic Agitation

Hydraulic agitation to keep your chemicals thoroughly mixed.

Easy Maintenance

No tools are needed for assembly or to rebuild the pump.

Nozzle

Adjustable cone nozzle standard and a complete line of nozzles are available from your Jacto dealer.

New Pump

High pressure piston pump designed for efficiency with a Santoprene piston cup.

Large Opening

Designed for fast fill ups with strainer included.

Carry Handle

Molded in carry handle for convenience and ease of storage.

Ergonomic Tank Design

This exclusive Jacto design easily conforms to your back.

Lever and Wand Storage Clip

For easy transport and storage.

Comfortable

The lightest backpack series from Jacto offers great performance with less effort or fatigue.

Deluxe Shoulder Straps

Easily adjustable thick padded straps for operator comfort.

Tank Level Indicator

Very accurate fill measurements in both gallons and liters.

JACTO logo

Your assurance of a genuine Jacto product.





FLORICULTURE CATALOGUE

