

Tobacco, pyrethrum, spices and drugs

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**TOBACCO, PYRETHRUM,
SPICES AND DRUGS**

Tobacco

Pyrethrum

Pepper

Chillies

Quinine

Tobacco (<i>Nicotiana sp.</i>)			
Pest	Product	Formulation and Dosage	Where and when to apply
677 <i>Meloidogyne</i> sp.	143	L: 120 l/ha to a depth of 20-25 cm at planting station or in the row	Field: 2-3 weeks before transplanting the tobacco seedlings
	146	L: 60 l/ha to a depth of 20-25 cm at planting station or in the row	Field: 2-3 weeks before transplanting the tobacco seedlings
	143	L: 550 l/ha to a depth of 25 cm at 40 cm intervals	Seedbed: Several weeks before planting
	146	L: 350 l/ha to a depth of 25 cm at 40 cm intervals	do.
	149	L: 500 cc/sq.m (cover the bed with polythene; control nematodes, weeds and some soil borne fungi)	do.
678 <i>Melolonthinae</i> <i>Rutelinae</i>	7	G 10%: 24 kg/ha WP 40%: 6 kg/ha	Broadcast on soil surface when preparing for planting and work in 6-10 cm
	10, 16	G 10%: 60-80 kg/ha WP 50% or ES 50%: 12 kg/ha	
	13	ES 20%: 2 l/200 l water	Pour 50-100 cc of the solution down the base of the stem
679 <i>Drasterius</i> sp. <i>Heteroderes</i> sp. <i>Agriotes</i> sp.	10	WP 50%: 3 kg/3000 l water/ha	Around the stems when plants are transplanted so that the soil is wet (setting-water treatment)
	16	WP 25%: 3 kg/3000 l water/ha	
	7	WP 25%: 10-12 kg/500 l water/ha	Broadcast on soil surface 1 month before planting and work in 15-20 cm
	10	WP 50%: 10 kg/500 l water/ha	
	13	WP 50%: 4-5 kg/500 l water/ha	
	17	G 5%: 10 kg/ha	
	27	G 10%: 20 kg/ha	

680	<i>Gryllotalpa africana</i>	see <i>Gryllotalpa</i> (No. 7)	
681	<i>Scapteriscus vicinus</i>	see <i>Gryllotalpa</i> (No. 7)	
682	<i>Gonocephalum acutangulum</i>	WP 40%: 1.5 kg/6000 l water/ha WP 50%: 2.4 kg/6000 l water/ha see also <i>Drasterius</i> (No. 679) and <i>Opaltrum</i> (No. 683)	60 cc to the plant, planted after the rains
683	<i>Opatrum sabulosum</i>	D 2.5%: 25 kg mixed with fertilizer see also <i>Drasterius</i> (No. 679) and <i>Gonocephalum</i> (No. 682)	Put the material in the planting hole and mix with the soil before planting
684	<i>Scotia (Euroa, Agrotis) segetum</i>	D 5%: 40 kg/ha D 2%: 40 kg/ha WP 40%: 900 g/300 l water/ha WP 50%: 3 kg/300 l water/ha WP 50%: 450 g/300 l water/ha Bait = WP 50%: 100 g + bran 40 kg mixture, 40 kg/ha Bait = WP 40%: 200 g + 20 kg bran mixture (add sufficient water to make a soft porridge-like slurry) 12.21 or 30.1 may also be used in this way	Apply dust to plant and surrounding soil Spray base of stem and surrounding soil Broadcast on soil surface
685	<i>Scotia (Agrotis) ypsilon</i>	Bait = D 5%: 10 kg + bran 125 kg mixture, dampen with water so that the materials are crumbly and not over-moist	Scatter the bait along the rows in the late afternoon so that it does not dry out before nightfall
686	<i>Feltia subterranea</i>	see <i>Scotia</i> (No. 684)	Broadcast on soil surface of 1 hectare
687	<i>Brachytrypus membranaceus</i>	see <i>Gryllulus</i> (No. 63) and <i>Brachytrypus</i> (No. 150)	
688	<i>Paralixus truncatulus</i>	WP 50%: 2 kg/500 l water	Spray stem when pests appear

Pest	Product	Formulation and Dosage	Where and when to apply
689 <i>Trichobaris trinotata</i>	39 see also <i>Paralixus</i> (No. 688)	ES 50%: 750 cc/500 l water	On stems and leaves when first signs of damage are seen
690 <i>Phthorimaea heliopa</i>	12	D 5%: 40 kg/ha	As preventive measure: Spray or dust advanced crops fortnightly As soon as first seedlings in seedbeds show swollen stems
	39	WP 25% or ES 25%: 3 kg/600 l water/ha	
		D 1%: 40 kg/ha	
		ES 50%: 300-450 cc/600 l water/ha	
691 <i>Nezara viridula</i>	13 35.3 see also <i>Cyrtopeltis</i> (No. 617) and <i>Nezara</i> (No. 841)	WP 50%: 1 kg/500 l water/ha Dust 1%: 25-30 kg/ha	On leaves and stems when pests appear
692 <i>Planococcus citri</i>	34 35 39	ES 20%: 1.25-1.5 l/750 l water/ha ES 50%: 2.5 l/750 l water/ha ES 20%: 1.5 l/750 l water/ha	When pests appear. Repeat after 10 days
693 <i>Ditylenchus dipsaci</i>	39	ES 50%: 750 cc/1000 l water/ha	On foliage and stems when first signs of damage are seen
694 <i>Epilachna 28-maculata</i>	12 13	WP 50%: 2 kg/500 l water/ha WP 20%: 2 kg/500 l water/ha	When beetles appear
695 <i>Lema bilineata</i>	12 see also <i>Epilachna</i> (No. 694)	D 5%: 20-25 kg/ha	When beetles appear
696 <i>Epithrix hirtipennis</i>	12 34	D 5%: 20-30 kg/ha WP or ES 25%: 1.5 kg/250 l water/ha ES 25%: 250 cc/250 l water/ha	The lowest leaves on the plant must be treated
697 <i>Mimaulus thesii</i>	7 13, 15	WP 40%: 1.25 kg/500 l water/ha WP 50%: 1 kg/500 l water/ha	When weevils appear

698 <i>Psara periusalis</i>	27	ES 60%: 500 cc/500 l water/ha	When first signs of damage appear
699 <i>Phthorimaea operculella</i>	12	WP 50%: 3 kg/750 l water/ha	As preventive measure: Spray every 14 days after first signs of damage appear
	27	ES 25%: 1.5 l/750 l water/ha	When first signs of damage (mines) appear
	28	ES 40%: 1000 cc/750 l water/ha	
	39	ES 50%: 500-750 cc/750 l water/ha	
700 <i>Diacrisia obliqua</i>		see Thosea (No. 318)	When caterpillars appear
701 <i>Protoparce sexta</i>	11	ES 25%: 4 l/500 l water/ha	
	21, 34	ES 25%: 2 l/500 l water/ha	When caterpillars appear
		see also <i>Mimaulus</i> (No. 697)	
702 <i>Heliothis (obsoleta) zea</i>	0	Bait = WP: 1 kg + maize meal 9 kg (mixture) 10 kg/ha	To buds of plants when small caterpillars appear
	11	Bait = WP 50%: 250 g + maize meal 10 kg (mixture) 10 kg/ha	
	12	Bait = WP 50%: 250 g + maize meal 10 kg (mixture) 10 kg/ha	On buds and foliage; repeat at fortnightly intervals
	21	D 5%: 20-25 kg/ha	
	30.1	WP or ES 50%: 2 kg/750 l water/ha ES 25%: 2 l/1000 l water/ha ES 60%: 0.5-1 l/1000 l water/ha	
703 <i>Prodenia litura</i>	12	WP 50%: 3-4 kg/750 l water/ha	When caterpillars appear or first signs of damage are seen
		see also <i>Mimaulus</i> (No. 697) and <i>Prodenia</i> (No. 837)	
704 <i>Laphygma exigua</i>		see <i>Laphygma</i> (No. 660)	
705 <i>Zonocerus elegans</i>	10	WP 50%: 2 kg/1000 l water	Cover a strip 10-15 m wide round the plot
	12	D 5%	
	13	WP 50%: 3 kg/1000 l water D 2%	
	35	WP 50%: 1 kg/1000 l water ES 50%: 3 l/1000 l water	
706 <i>Catantops opulentus</i>		see <i>Zonocerus</i> (No. 705)	

Pest	Product	Formulation and Dosage	Where and when to apply
707 <i>Thrips tabaci</i>	27 39	ES 25%: 600-750 cc/500 l water ES 50%: 250 cc/500 l water see also Thrips (No. 810)	When first signs of damage appear
708 <i>Frankliniella fusca</i>		see Thrips (No. 810)	
709 <i>Heliothrips</i> <i>haemorrhoidalis</i>		see Scirtothrips (No. 527)	
710 <i>Anaphothrips</i> <i>obscurus</i>		see Thrips (No. 707 and 810)	
711 <i>Cyrtopeltis tenuis</i>		see Cyrtopeltis (No. 617)	
712 <i>Dicyphus minimus</i>	39	D 1%: 15-20 kg/ha ES 25%: 750-1000 cc/750 l water/ha	On folige as needed
713 <i>Orosius argentatus</i>		see Empoasca (Nos. 636 and 814)	
714 <i>Empoasca tabaci</i>		see Empoasca (Nos. 636 and 814)	
715 <i>Bemisia tabaci</i>	28, 33.10	ES 40%: 625 cc/1200 l water/ha see Bemisia (No. 817)	When the plants look sickly and are full of very minute, white flying insects
716 <i>Trialeurodes tabaci</i>		see Bemisia (No. 817) and Bemisia (No. 715,	
717 <i>Myzodes persicae</i>	21 27 35 36 39 28 42	ES 25%: 1.25 l/750 l water/ha ES 25% or WP 25%: 1 l/750 l water/ha ES 25% or WP 25%: 1.25-2 l/750 l water/ha ES 20%: 1 l/750 l water/ha ES 50% or WP 50%: 300-500 cc/750 l water/ha ES 40%: 500 cc/750 l water/ha ES 50%: 400-800 cc/750 l water/ha	When aphids appear on plants. Do not apply insecticides for 5 days before transplanting

- 718 *Macrosiphon solani* see *Myzodes* (No. 717)
- 719 *Cyaneolytta pectoralis* see *Mylabris* (No. 856)
- 720 *Heliothis virescens* see *Heliothis* (No. 702)
- 721 *Heliothis assulta* see *Heliothis* (No. 702)
- 722 *Lasioderma serricorne* **2** synergised pyrethrum **spray:** Spray the room once a fortnight
tel quel
- 13** **WP 50%:** 1 kg/100 l water } 100 cc/
17 **WP 20%:** 2.5 kg/100 l water } sq.m
see also *Balanogastis* (No. 166)
- 723 *Setomorpha* see *Lasioderma* (No. 722)
margalaestriata
- 724 *Ephesia elutella* see *Lasioderma* (No. 722)

Pyrethrum (*Chrysanthemum cinerariaefolium*)

Pest	Product	Formulation and Dosage	Where and when to apply
725 <i>Nysius</i> sp.	see Creontiades (No. 797)		On stems when pests appear
726 <i>Frankliniella dampfi</i>	see Thrips (No. 727)		
727 <i>Thrips tabaci</i>	28, 48	ES 40%: 500 cc/500 l water/ha	On foliage when pests appear. Repeat 2 weeks later
728 <i>Myzodes persicae</i>	see Myzodes (No. 717)		
729 <i>Tetranychus bucleni</i>	28, 48	ES 40%: 500-750 cc/500 l water/ha see Tetranychus (No. 820) or Thrips (No. 727)	Repeat after 14 days

730 <i>Meloidogyne</i> sp.	see Meloidogyne (No. 101)	Pre-plant treatment
731 <i>Radopholus similis</i>	see Radopholus (No. 102)	do.
732 <i>Disphinctus maesarum</i>	see Heliothis (No. 137)	
733 <i>Ferrisia virgata</i>	see Ferrisia (No. 72)	When mealybugs appear
734 <i>Saissetia coffeae</i>	see Saissetia (No. 455) and Saissetia (No. 488)	
735 <i>Lepidosaphes piperis</i> 39	ES 50%: 750-1000 cc/1000 l water	On foliage and stems when scales appear. Repeat after 2 weeks
736 <i>Thosea sinensis</i>	see Thosea (No. 318)	
737 <i>Cricula trifenestrata</i>	see Parasa (No. 439)	
738 <i>Gynaikothrips Karny</i>	see Thrips (No. 810)	
739 <i>Elasmognathus greeni</i>	see Habrochila (No. 38)	
740 <i>Diplogomphus hewitti</i>	see Habrochila (No. 38)	
741 <i>Longitarsus nigripennis</i> 12 39	WP 50%: 4 kg/1000 l water D 1%: 15 kg/ha	When beetles appear on plant. Repeat after 2 weeks
742 <i>Lophobaris piperis</i> 13	WP 50%: 1 kg/1000 l water see also Trichobaris (No. 689)	On foliage and stems when weevils appear or when first signs of damage are seen
743 <i>Dasynus piperis</i>	see Dasynus (No. 352) and Leptoglossus (No. 529)	
744 <i>Elasmognathus hewitti</i>	see Habrochila (No. 38)	

Chillies (*Capsicum* sp.)

Pest	Product	Formulation and Dosage	Where and when to apply
745 <i>Meloidogyne</i> sp.	see <i>Meloidogyne</i> (No. 304)		
746 <i>Radopholus similis</i>	see <i>Meloidogyne</i> (No. 304)		
747 <i>Hodotermes</i> <i>mossambicus</i>	see <i>Hodotermes</i> (No. 170)		
748 <i>Scirtothrips dorsalis</i>	see <i>Scirtothrips</i> (No. 664) and <i>Thrips</i> (No. 810)		
749 <i>Empoasca lybica</i>	see <i>Empoasca</i> (No. 814)		
750 <i>Tetranychus</i> sp.	see <i>Tetranychus</i> (No. 327)		
751 <i>Anthonomus Eugeniae</i>	12 D 5%: 25-30 kg/ha WP 50%: 4 kg/1000 l water WP 20% or ES 20%: 10 kg/ 1000 l water	On foliage when weevils appear. Repeat weekly	
752 <i>Phthorimaea</i> <i>gudmanella</i>	22 WP 20% or ES 20%: 10-15 kg/ 1000 l water	On flowers and young pods when first signs of damage are seen	
753 <i>Zonosemata electa</i>	35 WP 40%: 4 kg/1000 l water	On foliage when flies appear or when first signs of damage are seen. Repeat at fortnightly intervals	
754 <i>Helopeltis westwoodi</i>	12 D 5%: 20-30 kg/ha WP 50%: 2-4 kg/1000 l water	On foliage when pests appear or when first signs of damage are seen	

755 <i>Meloidogyne</i> sp.	see Meloidogyne (Nos. 1 and 101)		
756 <i>Coccus viridis</i>	see Saissetia (No. 455) and Saissetia (No. 488)		On trunks and leaves when scales appear
757 <i>Howardia biclavis</i>	see Howardia (No. 76)		
758 <i>Alcides cinchonae</i>	12 13, 15	WP 50%: 5 kg/1000 l water ES 20%: 2-4 l/1000 l water	On leaves and twigs when weevils appear. Repeat after 2-3 weeks if necessary
759 <i>Helopeltis cinchonae</i>	12	WP 50%: 5 kg/1000 l water	On foliage when bugs appear
760 <i>Dactylispa manteroi</i>	12	WP 50%: 3 kg/1000 l water	On foliage when beetles appear
761 <i>Metanastria hyrtaca</i>	see Parasa (No. 79) and Parasa (No. 439)		
762 <i>Odonestis plagifera</i>	see Parasa (No. 79) and Protoparce (No. 701)		
763 <i>Deilephila nerii</i>	see Parasa (No. 79) and Protoparce (No. 701)		
764 <i>Boarmia crepuscularia</i>	see Parasa (No. 79) and Protoparce (No. 701)		
765 <i>Euproctis varia</i>	see Parasa (No. 79) and Protoparce (No. 701)		
766 <i>Heliothrips</i> <i>haemorrhoidalis</i>	see Scirtothrips (No. 527)		On first signs of damage
767 <i>Anaphothrips orchidii</i>	see Selenothrips (No. 85) and Scirtothrips (No. 527)		On first signs of damage
768 <i>Pachypeltis vittiscutis</i>	see Helopeltis (No. 754)		
769 <i>Tetranychus urticae</i>	see Tetranychus (No. 820)		
770 <i>Hemitarsonemus lata</i>	see Hemitarsonemus (No. 147)		On foliage when first signs of damage are seen

