



Government of India
Ministry of Agriculture
Department of Agriculture & Cooperation
Directorate of Plant Protection, Quarantine & Storage
Central Insecticide Board & Registration Committee
N.H.-IV, Faridabad-121 001

MAJOR USES OF PESTICIDES

Registered under the Insecticides Act, 1968

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Fungicides

Crop	Common name of the disease	Dosage per ha			Waiting period from last application to harvest (in days)
		a.i. (g)	Formulation (g/ml)/%	Dilution in water (L)	
Aureofungin 46.15% w/v. SP					
Paddy	Blast	-	0.005%	500	30
	Brown leaf spot	-	0.005%	500	
Grapes	Downy mildew	-	0.005%	750	15
	Anthraxnose	-	0.005%	750	

Cumin	Blight Powdery mildew	-	0.02% 0.02%	750	30
Citrus	Gummosis	-	1.0%	750 (soil drench)	30
Apple	Powdery mildew White root rot	-	0.005% 0.2%	10 lit/tree 5-10 injection 2gm/tree	-
Potato	Early blight	-	0.005%	750	30
Azoxystrobin 23% SC					
Grapes	Downy mildew Powdery mildew	125 gm	500 ml	500 - 750	7
Chilli	Fruit rot Powdery mildew	125 gm	500 ml	500 - 750	5
Mango	Anthracoise Powdery mildew	0.025%	0.1%	100 ml/ 100 lit of water depending on the size of the tree canopy	5
Tomato	Early & Late blight	125 gm	500 ml	500	3
Potato	Late Blight	125 gm	500 ml	500	12
Benomyl 50 % WP					
Wheat	Loose smut	1 gm	2 gm	1 kg of seed	-
Groundnut	Tikka leaf spot	112.5 gm	225 gm	750	-
Tobacco	Frog eye spot	112.5 gm	225 gm	750	-
Grapes	Powdery mildew	150 gm	300 gm	625- 700	-
	Anthracoise	150 gm	300 gm	625- 700	7
Beans	Powdery mildew	100 gm	200 gm	600	-
	Anthracoise	100 gm	200 gm	600	-
Cucurbits	Powdery mildew	100 gm	200 gm	600	-
	Anthracoise	100 gm	200 gm	600	-

Chillies	Powdery mildew	100 gm	200 gm	600	-
	Fruit rot	100 gm	200 gm	600	-
	Leaf spot	100 gm	200 gm	600	-
Brinjal	Powdery mildew	100 gm	200 gm	600	-
Sugar beat	Leaf spot	100 gm	200 gm	600	21
Peas	Powdery mildew	100 gm	200 gm	600	2
Bitertanol 25% WP					
Apple	Scab	0.02%	0.075%	10 lit/tree	30
Groundnut	Rust	250 gm	1000 gm	500	30
	Tikka	250 gm	1000 gm	500	30
Tea	Blister Blight	50 gm	200 gm	75	15
Wheat	Karnal bunt	560 gm	2240 gm	750	-
Captan 50% WG					
Chillies	Fruit rot (Anthracnose)	750 gm	1500 gm	500	5
Potato	Early blight & Late blight	750 gm	1500 gm	500	21
Captan 50% WP					
Apple	Scab	1250 gm	2.5 kg	750- 1000	-
Cherry	Brown rot	1250 gm	2.5 kg	750- 1000	-
Grapes	Downey mildew	1250 gm	2.5 kg	750- 1000	-
Potato	Early blight	1250 gm	2.5 kg	750- 1000	-
	Late blight	1250 gm	2.5 kg	750- 1000	-
Tomato	Early blight	1250 gm	2.5 kg	750- 1000	-
	Late blight	1250 gm	2.5 kg	750- 1000	-
Captan 75% WP					

Apple*	Scab Fly speck Bitter rot	0.12%**	1667 gm	15-20**	8
Cherry	Brown rot	0.12%**	1667 gm	15-20**	NA
Grape	Downy mildew	1250 gm	1667 gm	1000	8
Cabbage/ Cauliflower, Tomato, Brinjal, Chillies, Beans, Ornamentals	Damping off (Nursery)	0.25%	2500 gm	1000 Soil drench in the nursery	NA
Potato	Early blight	1250 gm	1667 gm	1000	8
	Late blight	1250 gm	1667 gm	1000	8
Tomato	Early blight	1250 gm	1667 gm	1000	6
	Late blight	1250 gm	1667 gm	1000	6
Chillies	Early blight	1250 gm	1667 gm	1000	8
	Fruit rot	1500 gm	2000 gm	1000	8
Citrus	Brown rot	0.25**	2500 gm	15-20**	NA
	Scab	0.12**	1667 gm	15-20**	NA
Rose	Black spot	1250 gm	1667	1000	NA
Paddy	Leaf spot	750 gm	1000 gm	750	NA
Captan 75% WS					
Chillies (soil drench)	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Cabbage	Damping off (soil drench)	15-25gm per kg seed	20-30 gm per kg seed	1	
Tomato	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Tobacco	Damping off (soil drench)	15-25 gm per kg seed	20-30 gm per kg seed	1	
Carbendazim 5% GR					
Paddy	Brown leaf spot	0.62 kg	12.5 kg	-	
Carbendazim 46.27% SC					

Grape	Powdery mildew	0.046% or 46 g /100 lit water	0.1% or 100 ml/ 100 lit Water	As required	30
Mango	Powdery mildew	0.046% or 46 g/100 lit water	0.1% or 100 ml/100 lit Water	As required	15
Carbendazim 50% WP					
Paddy	Blast	125-250 gm	250-500 gm	750 L	-
	Sheath blight	1gm/ kg seed	2 gm/ kg seed	(1 ltr/10 kg seed) (seed treatment)	(wet slurry treatment)
	Aerial phase	125-250 gm	250-500 gm	750	-
Wheat	Loose smut	1gm/kg seed	2 g/kg seed	(1 ltr/10 kg seed) (seed treatment before sowing)	(wet slurry treatment)
Barley	Loose smut	1 gm/kg	2 gm/kg	(1 ltr/10 kg seed) (seed treatment before sowing)	(wet slurry treatment)
Tapioca	Set rot	0.5 gm	1 gm	1	-
Cotton	Leaf spot	125	250	750	-
Jute	Seedling blight	1 gm/kg seed	2 gm/kg seed	(1 ltr/10kg seed) (seed treatment)	(wet slurry treatment)
Groundnut	Tikka leaf Spot	112.5 gm	225 gm	750	-
Sugar beet	Leaf spot	100 gm	200 gm	400	-
	Powdery mildew	100 gm	200 gm	400	-
Peas Cluster	Powdery mildew	125 gm	250 gm	600	-
Beans	Powdery mildew	175 gm	350 gm	750	-
Cucurbits	Powdery mildew	150 gm	300 gm	600	-
	Anthracoese	150 gm	300 gm	600	-
Brinjal	Leaf spot	150 gm	300 gm	600	-

	Fruit rot	150 gm	300 gm	600	-
Apples	Scab	1.25 gm	2.5 gm	10 per tree	-
Grapes	Anthraco nose	150 gm	300 gm	600	-
Walnut	Downy leaf spot	1.5 gm	3 gm	10 per tree	-
Rose	Powdery mildew	0.5 gm	1 gm	2	-
Ber	Powdery mildew	5 gm	10 gm	10 per tree	-
Carboxin 75% WP					
Wheat	Flag smut	1.5 -1.875 gm/ kg seed	2 -2.5 gm/ kg seed	N/A	Only one time seed treatment required
	Loose smut	1.5 - 1.875 gm/ kg seed	2 -2.5 gm/kg seed	N/A	Only one time seed treatment required
	Bunt	1.5 - 1.875 gm/ kg seed	2 -2.5 gm/ kg seed	N/A	Only one time seed treatment required
Barley	Loose smut	1.5 - 1.875 gm/ kg seed	2 -2.5 gm/ kg seed	N/A	Only one time seed treatment required
	Covered smut	1.5 - 1.875 gm/ kg seed	2 -2.5 gm/ kg seed	N/A	Only one time seed treatment required
Cotton	Angular leaf spot	1.5 - 1.875 gm/ kg seed	2 -2.5 gm/ kg seed	N/A/	Only one time seed treatment required
Carpropamid 27.8% SC					
Rice	Blast	0.03%	0.1%	300-500 depending upon crop stage	
Chlorothalonil 75% WP					
Groundnut	Tikka	0.66 - 0.863 gm	0.875-1.50 gm	600-800	14
	Rust	0.66 - 0.863 gm	0.875-1.50 gm	600-800	14

Potato	Early & late blight	0.66 - 0.937 gm	0.875-1.250 gm	600-800	14
Apple	Scab	0.150% (or 150 gm/100 lit. water)	0.200% or 200 gm/100 lit. water	10 lit. water per tree	45 days Recommended for use immediately after dormancy up to green tip stage
Grape	Anthracnose	0.150% (or 150 gm/100 lit. water)	0.2% or 200 gm/ 100 lit. water	100	60 days
	Downey mildew	0.150% (or 150 gm/100 lit. water)	0.2% or 200 gm/ 100 lit. water	100	60 days
Chillies	Fruit rot	600 gm	800 gm	750	10 days
Copper Oxychloride 50% WG					
Grape	Downy mildew	0.12% or 120 g/100 lt. water	0.24% or 240 g/100 lt. water	As required depending upon PP equipment	30
Mango	Anthracnose	0.12% or 120 g/100 lt. water	0.24% or 240 g/100 lt. water	As required depending upon PP equipment	10
Copper oxy chloride 50% WP					
Citrus	Leaf Spot	1.25	2.5	750-1000	-
	Canker	1.25	2.5	750-1000	-
Cardamom	Clump Rot	1.87-3.75	3.75-5.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Chillies	Leaf Spot	1.25	2.5	750-1000	-
	Fruit Rot	1.25	2.5	750-1000	-
Betel	Foot Rot	1.25	2.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Banana	Fruit Rot	1.25	2.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Coffee	Black Rot	1.87-3.75	3.75-5.5	750-1000	-
	Rust	1.87-3.75	3.75-5.5	750-1000	-

Cumin	Blight	1.25	2.5	750-1000	-
Potato	Early Blight	1.25	2.5	750-1000	-
	Late Blight	1.25	2.5	750-1000	-
Paddy	Brown Leaf Spot	1.25	2.5	750-1000	-
Tobacco	Downy Mildew	1.25	2.5	750-1000	-
	Black Sank	1.25	2.5	750-1000	-
	Frog eye leaf	1.25	2.5	750-1000	-
Tomato	Early Blight	1.25	2.5	750-1000	-
	Late Blight	1.25	2.5	750-1000	-
	Leaf Spot	1.25	2.5	750-1000	-
Tea	Blister Blight	0.21	0.42	175	-
	Black Rot	0.30	0.60	125	-
	Red Rust	0.30	0.60	125	-
Grapes	Downy Mildew	1.25	2.5	750-1000	-
Coconut	Bud Rot	1.25	2.5	750-1000	-
Copper Sulphate 2.62 % SC					
Tomato	Early blight	-	1.0 L	500	3 days
	Late blight	-	1.0 L	500	
Potato	Early blight	-	1.0 L	500	3 days
	Late blight	-	1.0 L	500	
Chilly	Fruit rot-anthracnose	-	1.0 L	500	3 days
Grape	Downy mildew	-	1.0 L	500	3 days
Copper Hydroxide 77% WP					
Tea	Blister blight	175 gm	350 gm	750	
Chilly	Anthracnose	625 gm	1250 gm	500	
	Cercospora leaf spot	625 gm	1250 gm	500	
Groundnut	Tikka leaf spot	937 gm	1875 gm	500	
Rice	False smut	1000 gm	2000 gm	750	
Cymoxanil 50% WP					
Grapes	Downey mildew	0.12 %	0.24% or 240 gm/100 Litre water	As required depending upon the crop stage	15

				and equip- ment used	
Cyazafamid 34.5% SC					
Potato	Late blight	80g	200ml	500	27
Tomato	Late blight	80g	200ml	500	3-5
Grapes	Downy mildew	80g	200ml	500	7
Difenoconazole 3% WS					
Wheat	Loose smut	6.0 g/100 kg seed	200 g /100 kg seed	10-20 ml water / kg seed	This is used as seed dresser
Difenoconazole 25% EC					
Apple	Scab	0.004% or 4 g/100 lt. water	0.015% or 15 ml/100 lt. water	As required depending upon the size of the plant and plant protection equipment used	14
Groundnut	Leaf Spot Rust	0.025% or 25g/100 lt. water	0.1% or 100 ml/100 lt. water	As required depending upon the size of the plant and plant protection equipment used	34
Rice	Sheath blight	0.0125% or 12.5g/100 lt. water	0.05% or 50 ml/100 lt. water	500-1000 (or as per the size of plant canopy)	25
Chilli	Die-back Fruit rot	0.0125% or 12.5g/100 lt. water	0.05% or 50 ml/100 lt. water	500	15
Cumin	Blight (<i>Alternaria burnsii</i>) Powdery mildew (<i>Erysiphae polygonii</i>)	0.0125% or 12.5 g/100 lit. water	0.05% or 50 ml/100 lit. water.	500	15

Onion	Purple blotch (<i>Alternaria porri</i>)	0.025% or 25 g/100 lit. water	0.1% or 100 ml/100 lit. water.	500	20
Dimethomorph 50% WP					
Grapes	Downy mildew (<i>Plasmopara viticola</i>)	500 gm	1000 gm	750 L	25
Potato	Late blight (<i>Phytophthora infestans</i>)	500 gm	1000 gm	750 L	16
Dinocap 48% EC					
Okra	Powdery mildew	108 gm	225 gm	750	--
Chilli	Powdery mildew	108 gm	225 gm	750	--
Beans	Powdery mildew	108 gm	225 gm	750	--
Grapes	Powdery mildew	108 gm	225 gm	750	21
Peaches	Powdery mildew	1.44 gm	3 gm	10	45
Apple	Powdery mildew	1.44 gm	3 gm	10	21
Ber	Powdery mildew	1.44 gm	3 gm	10	30
Mango	Powdery mildew	2.4 gm	5 gm	10	-
Peas	Powdery mildew	144 gm	300 gm	750	-
Fanugreek (Only for Seed crop)	Powdery mildew	144 gm	300 gm	750	-
Cumin	Powdery mildew	144 gm	300 gm	750	-
Poppy	Powdery mildew	144 gm	300 gm	750	-
Rose	Powdery mildew	0.96 gm	2 ml	10 lit water	-
Dithianon 75% WP					

Apple	Scab	1350 gm	1800 gms	2400 L	14-21
Dodine 65% WP					
Apple	Scab	0.05%	0.075%	10	21
Ediphenphos 50% EC					
Paddy	Blast	250-300	500-600	750-1000	21
	Brown leaf spot	250-300	500-600	750-1000	21
Fenarimol 12%EC					
Apple	Scab	0.005% (5 g/ 100 lts of water)	0.04 % (40 ml/ 100 lts of water)	10 lts./ tree	30
Chillies	Powdery mildew	0.005% (5 g/100 lts of water)	0.04% (40 ml/100 lts of water)	As required depending on stage of crop	15
Pea	Powdery Mildew	0.005% (5 g/100 lts of water)	0.04% (40 ml/100 lts of water)	As required depending on stage of crop	15
Flusilazole 40% EC					
Grapes	Powdery mildew	0.004%	0.01%	As required depending upon the stage of crop and type of plants protection equipment used	15
Apple	Scab	0.004%	0.01%	-	10
Rice	Sheath Blight	120 g ai/ha	300 ml/ha	500	24
Chilli	Powdery Mildew	40-60 g a.i/ ha	100-150 ml/ha	500	5
Fosetyl-AL 80% WP					

Grapes	Downey mildew	1120- 1600 gm	1400- 2000 gm	750-1000	30
Cardamom	Azhukal disease and Damping off	1800-2400 gm	2250-3000 gm	750-1000	90
Hexaconazole 2% SC					
Chillies	Powdery mildew & Fruit rot	60 gm	3.0 L	500	7
Potato	Early blight & Late blight	60 gm	3.0 L	500	21
Grapes	Powdery mildew	30-60 gm	1.5-3.0 L	500-750 depending upon crop canopy	14
Hexaconazole 5% EC					
Apple	Scab	0.0025%	0.05% (50 ml/100 lt)	As required	30
Rice	Blast Sheath blight	50 gm	1000 ml	500	40
Groundnut	Tikka leaf spot	75 gm	1500 ml	500	30
Mango	Powdery mildew	0.005% (5 g/100 lit)	0.1% (100 ml/100 lt)	As required	30
Soybean	Rust	0.005% (5 g/100 lit)	0.1% or (100 ml/100 lit)	As required	30
Tea	Blister blight	10 gm	200 ml	70-90 with power sprayers 175-200 with knap Sack sprayer	7
Grapes	Powdery mildew	25-50gm	500-1000ml	500	14
Hexaconazole 5 % SC					
Mango	Powdery mildew	0.01% (10 g/100 lt water)	0.2% or (200 ml/100 lt. water)	As required depending on size of tree and plant protection equipment used.	27

Rice	Sheath blight	0.01% (10 g/100 lt water)	0.2% or (200 ml/100 lt. water)	As required depending on size of tree and plant protection equipment used	40
Grapes	Powdery mildew	25-50 gm	500-1000	500	14
Iprodione 50% WP					
Rapeseed Mustard	Alternaria blight	1.125Kg - 1.5 kg	2.25 kg-3 kg	750- 1000	50
Rice	Sheath blight	1.125 kg	2.25 kg	750	35
Tomato	Early blight	0.75 kg	1.5 kg	500	15
Grapes	Anthracoise	0.5- 1.0 kg	1.0 ó 2.0 kg	500	20
Isoprothiolan 40% EC					
Rice	Blast	300	750	500-1000	60
Kasugamycin 3% SL					
Rice	Blast	30-50 gm 0.030% 0.050%	1000-1500 ml	750-1000	30
Kitazin 48% EC					
Rice	Blast, Sheath Blight	0.10% or 100 gram in 100 lit of water	0.20% or 200 ml in 200 lit of water	As required depending upon crop stage and plant protection equipment used	15
Chilly	Fruit rot /dieback	0.10% or 100 gram in 100 lit of water	0.20% or 200 ml in 200 lit of water	As required depending upon crop stage and plant protection equipment used	3
Tomato	Early blight	0.10% or 100 gram in	0.20% or 200 ml in 200 lt. of	As required depending upon crop	5

		100 lit. of water	water	stage and plant protection equipment used	
Potato	Early blight	0.10% or 100 gram in 100 lit. of water	0.20% or 200 ml in 200 lit of water	As required depending upon crop stage and plant protection equipment used	48
Onion	Purple blotch	0.10% or 100 gram in 100 lit. of water	0.20% or 200 ml in 200 lt. of water	As required depending upon crop stage and plant protection equipment used	63
Pomegranate	Anthraco nose	0.10% or 100 gram in 100 lit. of water	0.20% or 200 ml in 200 lt. of water	As required depending upon crop stage and plant protection equipment used	10
Grape	Anthraco nose	0.10% or 100 gram in 100 lit of water	0.20% or 200 ml in 200 lit of water	As required depending upon crop stage and plant protection equipment used	15
Kresoxim-methyl 44.3% SC					
Paddy	Blast Sheath Blight	250 gm	500 ml	500	30
Grapes	Powdery mildew Downey mildew	300-350 gm	600-700 ml	500	07
Lime Sulphur 22% SC					

Apple	Scale Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	2% pre and 1% post blossom
Bean	Rust	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	-
Cherry	Leaf spot	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	Three applications: after petal fall 2 week later & after harvest
Grape	Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	Feb followed by two dustings in summer
Peach	Leaf curl Brown rot Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	Only 1 application before the petal swell. Three pre-harvest applications
Pear	Black spot	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	At white bud, Petal fall.
Plum	Black spot	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	Delayed dormant spray
Rose	Powdery mildew	This liquid is used at one per cent in conventional sprayers: Doses 2-5 lit/ha	Delayed dormant spray

Mancozeb 35% SC

Patato	Early blight & Late blight	0.175% or 175 gm/100 Lt. water	0.5% or 500 gm/100 lt. water	500 Lt water or as required depending upon crop stage and equipment used	35
Tomato	Early blight & Late blight	0.175% or 175 gm/100 Lt. water	0.5% or 500 gm/100 lt. water	500Lt Water or as required depending upon crop stage and equipment used	10

Mancozeb 75% WG					
Tomato	Early Blight	750 gm	1000 gm	500 Lit	5-6
Potato	Late Blight	750 gm	1000 gm	500 Lit	3-5
Mancozeb 75% WP					
Wheat	Brown & black rust	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Blight	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Maize	Leaf blight	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Downy mildew	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Paddy	Blast	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Jowar	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Potato	Late blight	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Early blight	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Tomato	Late blight	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Buck eye rot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Chilies	Damping off	2.25 g	3 g (soil drench)	1 Lt	-
	Fruit rot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Ripe rot	1.125 -1.5 kg	1.5-2 kg	750 Lt	-
	Leaf spot	1.125 -1.5 kg	1.5-2 kg	750 Lt	-
Onion	Leaf blight	1.125 -1.5 kg	1.5-2 kg	750 Lt	-
Tapioca	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Ginger	Yellow disease	450 gm	600 gm	300 Lt (for 12-14 quintals)	-
Sugarbeet	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Lt	-

Cauliflower	Collar rot	2.25 gm	3 gm	1 Lt	-
	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Ground nut	Tikka disease & rust	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Collar rot Leaf spot	18.75 to 22.50/ 10 kg seed	25 to 30/ 10 kg seed	0.1 (water slurry)	-
Grapes	Angular leaf spot	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Downy mildew	1.125-1.5 kg	1.5-2 kg	750 Lt	-
	Anthracnose	1.125-1.5 kg	1.5-2 kg	750 Lt	-
Guava	Fruit rot	15 g	20 g	10/tree Lt	-
Banana	Cigar end rot	1.125-1.5 kg	1.5-2 kg	1000 Lt	-
	Tip rot	1.125-1.5 kg	1.5-2 kg	1000 Lt	-
	Sigatoka leaf spot	1.125-1.5 kg	1.5-2 kg	1000 Lt	-
Apple	Scab & sooty blotch	22.5 g /tree	30 gm/tree	10 Lt/tree	-
Cumin	Blight	1.125-1.5 kg	1.5-2 kg	500 Lt	-

Mandipropamid 23.4% SC

Grapes	Downy mildew	0.2 ml/lit	0.8 ml/lit	500-1000	5
Potato	Late blight	0.2 ml/lit	0.8 ml/lit	500-750	40

Metalaxyl-M 31.8% ES

Maize	Downey mildew	0.76 g/kg seed	2.4 ml/kg seed	This is used as a seed dresser
Pearl millet	Downey mildew	0.7 g/kg seed	2.0 ml/kg seed	
Sorghum	Downey mildew	0.7 g/kg seed	2.0 ml/kg seed	
Sunflower	Downey mildew	0.7 g/kg seed	2.0 ml/kg seed	

Metalaxyl 35% WS

Maize	Sorghum downy mildew Sugarcane downy mildew Phillippine	Slurryseed treatment with240g/ 100 kg seed	700 g/ 100 kg seed	0.75- 1.0/100 kg seed	3½-4 months depending on the variety
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	downy mildew Brown stripe downy mildew				
Bajra	Downy mildew	Slurry seed treatment with 200g/100 kg seed	600 g/ 100 kg seed	0.75-1.0/100 kg seed	3-3½ months depending on the variety
Sorghum	Downy mildew	Slurry seed treatment with 200g/100 kg seed	600 g/ 100 kg seed	0.75-1.0/100 kg seed	3½-4 months depending on the variety
Sunflower	Downy Mildew.	Slurry seed treatment with 200g/100 kg seed	600 g/ 100 kg seed	0.75-1.0/100 kg seed	3½-4 months depending on the variety
Mustard	White rust	Slurry seed treatment with 200g/100 kg seed	600 gm/ 100 kg seed	0.75-1.0/100 kg seed	3½-4 months depending on the variety
Metriam 70% WG					
Tomato	Alternaria blight (Alternaria solani)	1750 gm	2500 gm	500-750 lt	6
Groundnut	Tikka (Cercospora spp.)	1400 gm	2000 gm	500-750Lt.	16
M.E.M.C. 6% FS					
Sugarcane	Whip smut	0.025g /kg seed	0.415 g /kg seed	100 ml	Period of seed treatment 3-5 minute
Potato	Tuber	0.025 g/kg seed	0.415 g/kg seed	100 ml	Period of seed treatment 3-5 minute
Myclobutanil 10% WP					
Apple	Scab	0.004%	0.04%	10 lit/ tree	21

Grape	Powdery mildew	0.004%	0.04%	500 lit/ha	15
Chilies	Powdery mildew Leaf spot Die back	0.004%	0.04%	500 lit/ha	03
Neem oil based EC containing <i>Azadirachtin</i> 0.030% (300 ppm)					
Bhindi	Powdery mildew		2-2.5	500	3
Oxycarboxin 20% EC					
Coffee	Leaf rust	200-400g	1-2 lit	1000-2000 lit	21
Penconazole 10% EC					
Grapes	Powdery mildew (Unicinula necator)	0.005% or 5 gm/100 Lt. water	50 ml/100 Lt. water	Depending upon the requirement	30
Apple	Scab (Venturia inaequalis)	0.005% or 5 gm /100 lit water	50 ml/100 Lt. water	10 Lt. water per tree	30
Mango	Powdery mildew (Oidium mangiferae)	0.005% or 5 gm/100 Lt. water	50 ml/100 Lt. water	10 Lt. water per tree	30
Pulses (Black Gram /Greengram)	Powdery mildew (Erysiphe polygoni)	0.005% or 5 gm/100 Lt. water	50 ml/100 Lt. water	500Lt/ha	30
Pencycuron 22.9% SC					
Rice	Sheath blight	150-187.5 gm	600-750 ml	500 Lt.	-
Propiconazole 25% EC					
Wheat	Karnal bunt (Neovossia indica)	125 gm	500 gm	750	30

	Leaf rust / Brown Rust (<i>Puccinia recondite</i> F. sp. <i>tritici</i>)	125 gm	500 gm	750	30
	Stem rust (<i>B. graminis</i> f. sp. <i>tritici</i>)	125 gm	500 gm	750	30
	Stripe rust /Yellow Rust (<i>P. striiformis</i>)	125 gm	500 gm	750	30
Rice	Sheath blight (<i>Rhizoctonia solani</i> f. <i>sesakii</i>)	125 gm	500 gm	750	30
Groundnut	Early leaf spot (<i>Cercospora arachidicola</i>)	125 gm	500 gm	750	15
	Late leaf spot (<i>C. personata</i>)	125 gm	500 gm	750	15
	Rust (<i>Puccinia arachidis</i>)	125 gm	500 gm	750	15
Tea	Blister blight	31.25-62.50 gm	125-250 gm	175-250	7
Sayabean	Rust	125 gm	500 gm	500	26
Banana	Sigatoka leaf spot	0.025%	0.10%	500-1000	45
Coffee	Leaf rust	0.02%	0.08%	1000	88
Propiconazole 10.7%+ Tricyclazole 34.2% SE					
Paddy	Sheath blight Blast	0.045	0.1	500	23
Propineb 70% WP					
Apple	Scab	0.21% or 210 g/100 Lt. water	0.30% or 300 gram/ 100 Lt. water	As required depending upon size of the tree and plant protection equipment used	30

Pomegranate	Leaf and fruit spots	0.21% or 210 g/100 Lt. water	0.30% or 300 gram/ 100 Lt. water	As required depending upon size of the tree and plant protection equipment used	10
Potato	Early & late Blight	0.21% or 210 g/100 Lt. water	0.30% or 300 gram/ 100 Lt. water	As required depending upon crop stage and plant protection equipment used	15
Chilli	Dieback	0.35% or 350 g/100 Lt. water	0.5% or 500 gram/ 100 Lt. water	As required depending upon crop stage and plant protection equipment used	10
Tomato	Buck eye rot	0.21% or 210 g/100 Lt. water	0.30% or 300 gram/ 100 Lt. water	As required depending upon crop stage and plant protection equipment used	10
Grapes	Downy Mildew	0.21% or 210 g/100 Lt. water	0.30% or 300 gram/ 100 Lt. water	As required depending upon crop stage and plant protection equipment used	40
Rice	Brown leaf spot	1050 to 1400 g	1500 to 2000 g	Use 500 litre spray volume/ hectare	

***Pseudomonas fluorescens* 1.75% WP Strain Code No. MTCC 5176)**

Wheat	Loose smut		5 g/kg seed (Seed treatment)	Mix the required quantity of seeds with the required quantity of <i>Pseudomonas fluorescens</i> 1.75% WP formulation and ensure uniform coating. Shade dry and sow the seeds.	-
			5 g/litre (Foliar spray)	Dissolve 5 kg of <i>Pseudomonas fluorescens</i> 1.75% WP in 1000 litres of water and spray	

Pyraclostrobin 20% WG

Tomato	Early blight	75-100 gm	375-500 gm	500	3
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(Streptomycin Sulphate 9% + Tetracylin Hydrochloride 1%) SP

Apple	Fire blight	-	Spray Streptocycline 25 to 50 ppm solution at 20 to 30% bloom. It is advisable to spray trees every 3 to 4 days during blossom time	-	-
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Beans	Halo blight	-	Spray Streptocycline 100 to 150 ppm solution thrice at interval of 7 days. For prevention apply first spray 10 days after emergence of leaf.	-	-
Citrus	Citrus canker	-	Spray Streptocycline 50 to 100 ppm solution repeatedly at an interval of 15 to 20 days after the appearance of new growth. Cover the foliage and young fruits fully.	-	-
Cotton	Seeding blight angular leaf spot or black arm disease	-	Seed treatment Seed borne infection can be eliminated by soaking the seeds in 40 to 50 ppm solution for a period of two hours. Spray: Streptocyclin 25 to 40 ppm to be sprayed thrice. Before flowering. After flowering. Twenty days after second spray. For prevention of accompanying fungal infection use copper fungicide with streptocyclin.	-	-

Potato	Black leg and soft rot, bacterial brown wilt or ring or the bangle disease of potato	-	Seeds treatment: Prior to planting soak potato seed tubers in streptocycline 40 to 100 ppm solution for half an hour. Spray: Two to three sprays of 40 to 50 ppm solution at an interval of 20 days. First spray 30 days after planting.	-	-
Tabacco	Wild fire	-	Spray Streptocycline 40 to 100 ppm solution at two leaf stage of the plant. Repeated application at an interval of 7 days is necessary till the plants get established in the field.	-	-
Tomato/ Chillies	Bacterial leaf spot	-	Spray seedlings with streptocycline 40 to 100 ppm solution in seed beds and fields after the appearance of first true leaves two sprays of streptocycline, one before transplanting and another after are effective for controlling the disease.	-	-

Paddy	Bacterial leaf blight	-	<p>Seeds treatment: Prepare streptocycline 40 ppm solution and soak seeds for 12 hours at room temperature before sowing.</p> <p>Seedling treatment: Dip the seeding in streptocycline 40 to 100 ppm solution. The antibiotic will be absorbed through the injured roots and penetrate the vascular bundles inside the seedlings.</p> <p>Spray: Spray streptocycline 100 to 150 ppm solution at early root stage. Second spray, if necessary before grain set.</p>	-	-
Tea	Blister Blight	-	<p>It is fungal disease and can be controlled by spraying 40 gms with 350 to 420 gms copper oxychloride (50% Wettable power) in 67 liters of water per hectare with air blast sprayer, covering two rows on either side.</p>	-	-
Sulphur 40% WP					

Cotton	Mites	1.50-2.00 Kg	3.75-5.00 kg	750-1000	-
Beans	Powdery mildew	2.25-3.00 kg	5.65-7.50 kg	750-1000	-
Cumin	Powdery mildew	1.40 Kg	3.50 kg	1000	-
Grapes	Powdery mildew	1.22 kg	3.00 kg	1000	-
Groundnut	Tikka Leaf spot	2.25-3.00 kg	5.65-7.50 kg	750-1000	-
Mango	Powdery mildew	1.50-2.00Kg	3.75-5.00 kg	1000	-
Opium	Powdery mildew	1.16 kg	3.00 kg	1000	-
Peas	Powdery mildew	2.25-3.00kg	5.65-7.50 kg	750-1000	-
Roses	Powdery mildew & Red SpiderMite	1.50-2.00Kg	3.75-5.00 kg	1000	-
Sorghum	Mites	0.75-1.00kg	2.00-2.50 kg	750-1000	-
Tea	Pink & Purple Mites	1.00-2.00kg	2.50-5.00 kg	750-1000	-
Sulphur 52% SC					
Tea	Red Spider mites	1.04 Kg	2.00 Lt.	400	-
Pea	Powdery mildew	1.04 Kg	2.00 Lt.	400	-
Chilli	Powdery mildew	1.04 Kg	2.00 Lt.	400	-
Sulphur 55.16 % SC					
Grapes	Powdery mildew	0.165% or 165 g/100 Lt. water	0.30% or 300 ml/ 100 Lt. water	As required	10
Mango	Powdery mildew	0.165% or 165 g/100 Lt. water	0.30% or 300 ml/ 100 Lt. water	As required	10
Sulphur 80% WP					
Apple	Powdery mildew	2-4 kg	2.5-5.0 Kg	750-1000	-
Grapes	Powdery mildew	2-4 kg	2.5-5.0 Kg	750-1000	-

Groundnut	Tikka Leaf spot	2-4 kg	2.5-5.0 Kg	750-1000	-
Cowpea, Moong/Urid	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Pea	Rust	2.5 kg	3.13 Kg	750-1000	-
Sorghum	Grain smut	2.4-3.2 g/kg seed	3-4 g/kg seed	1 Lt/10 kg seed	-
Chillies & Okra	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Mango	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Citrus	Powdery mildew	2.5 kg	3.13 Kg	750-1000	-
Tea	Red spider mite	0.8 kg	1 kg	200	-
	Pink & Purple mite	0.8 Kg	1 Kg	200	-
Sulphur 80% WG					
Grapes	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cowpea	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Guar	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Pea	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cumin	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Apple	Scab	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Mango	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Sulphur 85% DP					
Grape	Powdery mildew	12.75-17kg	15-20 kg	-	-
Ground nut	Tikka Leaf spot	12.75-17kg	15-20 kg	-	-
Beans	Powdery mildew	12.75-17kg	15-20 kg	-	-
(Cow pea, moong, urid)	Rust	12.75-17kg	15-20 kg	-	-
Pea	Rust	12.75-17kg	15-20 kg	-	-
	Powdery mildew	12.75-17 kg	15-20 kg	-	-

Rubber	Powdery mildew	31.86 kg	37.5 kg	-	-
Cumins & Coriander	Powdery mildew	12.75-17 kg	15-20 kg	-	-
Tobacco	Powdery mildew	85 kg	100 kg	-	-
Tebuconazole 2% DS					
Wheat	Loose smut Flag smut	0.2 kg/10 kg seed	10 Lt/ 10 kg seed		
Groundnut	Collar rot Root rot Stem rot	0.2 to 0.25 kg/10 kg seed	10 to 12.5 Lt/ 10 kg seed		
Tebuconazole 25.9% m/m EC					
Chili	Fruit rot Powdery mildew	0.125-0.1875 kg	0.50-0.75 lit	500	5
Groundnut	Tikka & rust	0.125-0.1875 kg	0.50-0.75 lit	500	49
Rice	Blast, Sheath Blight	0.1875 kg	0.750 lit	500	10
Tebuconazole 25% WG					
Chilli	Powdery mildew, fruit rot	0.125-0.1875	0.500-0.750	500	5
Groundnut	Tikka leaf spot, rust	0.125-0.1875	0.500-0.750	500	22
Thifluzamide 24% SC					
Rice	Sheath Blight, Rhizoctonia solani	90 gm	375 gm	500	28
Thiophanate Methyl 70% WP					
Papaya	Powdery mildew	500 gm	715 gm	750-1000	4-8
Apple	Scab	500 gm	715 gm	750-1000	3
Wheat	Brown rust	500 gm	715 gm	750-1000	14

	Leaf blight	500 gm	715 gm	500	14
Tomato	Ring rot	500 gm	715 gm	750-1000	7
Bottle gourd	Anthraco nose	1000 gm	1430 gm	750-1000	1
Pigeon pea	Fusarium wilt	1000 gm	1430 gm	750-1000	7
Cucurbits	Powdery mildew	1000 gm	1430 gm	750-1000	1
Thiram 40 FS					
Maize	Seedling blight	9.6	24	100 ml to make slurry	-
Thiram 75% WS					
Groundnut	Collar rot	37.5 gm	50 gm	1	7-10
Wheat	Flag smut	18.8-22.5 gm	25-30 gm	1	7-10
	Karnal bunt	18.8-22.5 gm	25-30 gm	1	7-10
Barley	Leaf stripe	18.8-22.5 gm	25-30 gm	1	7-10
Maize	Seedling blight	18.8-22.5 gm	25-30 gm	1	7-10
Sorghum	Loose smut	18.8-22.5 gm	25-30 gm	1	7-10
	Seedling blight	18.8-22.5 gm	25-30 gm	1	7-10
Potato	Scab	18.8-22.5 gm	25-30 gm	1	7-10
Rice & cotton	Seed born disease	18.8-22.5 gm	25-30 gm	1	7-10
Triadimefon 25% WP					
Wheat	Bunt of Wheat	0.025%	0.500 kg	750	25
	Powdery mildew	65-135 gm	0.260-0.520	750	25
Pea	Rust, Powdery mildew	0.025%	0.100%	750	25
Grapes	Powdery mildew	0.0025%	0.010%	750	25
Coffee	Coffee Rust	0.020%	0.080%	750-1000	25

Mango	Powdery mildew	0.01-0.025%	0.040-0.100%	10-15 lit depending on tree	40
Chilies	Powdery mildew	38 gm	0.150 kg	750	15
Soybean	Rust	0.025%	0.100%	750	25
<i>Trichoderma harzianum</i> 0.50% WS					
Cardamom	Capsule rot (<i>Phytophthora meadii</i>)		100 gm /plant (Soil treatment)	Soil treatment: Apply 100 gm product/ plant along with neem cake (0.5 kg/ plant) and 5 kg FYM/ plant	-
<i>Trichoderma harzianum</i> 2.0% WP					
Maize	Root rot Fusarium wilt (<i>Fusarium moniliforme</i>)		20 gm /kg seed	Seed treatment: Make a thin paste of required quantity of <i>Trichoderma harzianum</i> 2% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing.	-
<i>Trichoderma viride</i> 1% WP					
Pigeonpea	Wilt, root rot		8 gm /kg seed 5.0 kg/ha	Seed treatment Soil treatment	Nil Nil

<i>Trichoderma viride</i> 1% WP					
Cowpea	Root Rot		5 gm /kg seed 2.5 kg/ha	Seed treatment: Make a fresh slurry of required quantity of <i>Trichoderma viride</i> 1.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing. Soil treatment : Mix 2.5 kg of <i>Trichoderma viride</i> 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	-
<i>Trichoderma viride</i> 1% WP					
Chickpea	Wilt (<i>Fusarium oxysporum</i>)		5 gm /kg seed	Seed treatment: Make slurry of required quantity of	

				<i>Trichoderma viride</i> 1.0% WP with minimum volume of water & coat the seeds uniformly, shade dry the seeds just before sowing	
	Root Rot (<i>Rhizoctonia solani</i> & <i>Sclerotium rolfsii</i>)		5.0 kg/ha	Soil treatment : Mix 5.0 kg of <i>Trichoderma viride</i> 1.0% WP in 100 kg FYM and broadcast over a hectare land mix well with soil and irrigate the field immediately	-
Paddy	Sheath blight (<i>Rhizoctonia solani</i>)		5-10 gm/litre of water	Foliar spray: Mix 2.5 kg of <i>Trichoderma viride</i> 1.0% WP in 500 litres of water. Spray three times at 15 days interval uniformly over one hectare land 30 days after planting	
<i>Trichoderma viride</i> 1% WP					

Cauliflower	Stalk rot ó <i>Sclerotina sclerotiorum</i>		4 gm /kg seed	Seed treatment: Make a thin paste of required quantity of <i>Trichoderma viride</i> 1.0% WP with minimum volume of water and coat the seeds uniformly, shade dry the seeds just before sowing	-
			2.50 kg/ha	Soil treatment : Mix 2.5 kg of <i>Trichoderma viride</i> 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	
Brinjal	Root Rot/ Wilt/ Damping off <i>Rhizoctonia bataticola,</i> <i>Sclerotium rolfsii,</i> <i>Fusarium oxysporum,</i> <i>Rhizoctonia solani</i>		5 gm/kg seeds	Seed treatment: Make a thin paste of required quantity of <i>Trichoderma viride</i> 1.0% WP with minimum volume of water and coat the seeds uniformly,	

				shade dry the seeds just before sowing	
	Root Rot/ Wilt/ Damping off <i>Rhizoctonia bataticola</i> , <i>Sclerotium rolfsii</i> , <i>Fusarium oxysporum</i> , <i>Rhizoctonia solani</i>		250 gm/50 litre of water/ 400 sq. mt.	Nursery Treatment: Mix 250 gm of <i>Trichoderma viride</i> 1.0% WP in 50 litre of water and drench the soil in 400 sq. mt. area Seedling Root dip treatment: Mix 10 gm of <i>Trichoderma viride</i> 1.0% WP in one litre of water and dip the Brinjal seedling root for 15 minutes	
			2.5 kg/ hectare	Soil treatment : Mix 2.5 kg of <i>Trichoderma viride</i> 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	

Cabbage	Root rot/Collar rot <i>Rhizoctonia solani</i>		10 gm/ litre water	Seedling Root dip treatment: Mix 10 gm of <i>Trichoderma viride</i> 1.0% WP in one litre of water and dip the Cabbage seedling root for 30 minutes	
			2.5 kg/ hectare	Soil treatment : Mix 2.5 kg of <i>Trichoderma viride</i> 1.0% WP with 62.5 kg FYM and broadcast uniformly over a hectare of land and irrigate the field immediately	
<i>Trichoderma viride</i> 1% WP					
Tomato	Seedling wilt <i>Fusarium oxysporum</i> Damping off <i>Pythium aphanidermatum</i> <i>Rhizoctonia solani</i>		9 g/kg seed 2.5 kg	Seed treatment Mix 9 kg of the product per kg seed. Root zone application Mix thoroughly 2.5 kg of the product in 150 kg of compost or farmyard	-

				manure and apply this mixture in the field after sowing/ transplanting of crops	
Bengal gram	Seedling wilt <i>Fusarium oxysporum</i> Damping off <i>Pythium aphanidermatum</i> <i>Rhizoctonia solani</i>		9 g/kg seed 2.5 kg	Seed Treatment Mix 9 kg of the product per kg seed. Root zone application Mix thoroughly 2.5kg of the product in 150 kg of compost or farmyard manure and apply this mixture in the field after sowing/ transplanting crops	-
Trichoderma viride 1% WP					
Sunflower	Seed rot <i>Sclerotium rolfsii</i>		6 g/kg seed	Seed treatment Mix required quantity of the seeds with the required quantity of product in rice gruel, ensure uniform coating,	

	Root rot <i>Sclerotium rolfsii</i>		1.25-2.5 kg/ha	shade dry and sow Soil treatment Mix with 30-60 kg of compost/ farmyard manure and spread uniformly over 1 hectare of land	
<i>Trichoderma viride</i> 1% WP (TNAU Strain Accession no. ITCC 6914)					
Cowpea	Wilt (<i>Fusarium oxysporum</i>)		4 gm/kg seed	(Seed treatment) Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 1% WP and ensure uniform coating, shade dry and sow.	
<i>Trichoderma viride</i> 5% WP					
Groundnut	Stem rot <i>(Sclerotium rolfsii)</i>		4 gm Formulated <i>Trichoderma viride</i> 1% WP / kg of seed (Seed Treatment) 2.5 kg Formulated <i>Trichoderma viride</i> 1% WP /hectare (Soil	Seed treatment) Mix required quantity of the seeds with the required quantity of <i>Trichoderma viride</i> 1% WP and ensure uniform coating, shade dry and sow. Apply 2.5 kg <i>Trichoderma viride</i> 1% WP in 500 kg Castor cake in furrow at the time of	

			Treatment)	sowing.	
Trichodrma viride 5% WP					
Groundnut	Stem rot (<i>Sclerotium rolfsii</i>)		4 gm /kg seed + 2.5 kg/ha	Seed treatment: Mix required quantity of the seeds with the required quantity of product and ensure uniform coating, shade dry and sow Soil treatment : Apply 2.5 kg product in 500 kg castor cake in furrow at the time of sowing	-
Tricyclazole 75% WP					
Paddy	Blast	225-300 gm	300-400 gm	500	30
Validamycin 3% L					
Rice	Sheath Blight	60 gm	2000 gm	750	There should be no residues on grains and straw of paddy 14 days before the harvest.
Zineb 75% WP					
Jowar	Red leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	

	Leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Leaf blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Paddy	Blast	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Wheat	Rust Blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Maize	Leaf Blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Ragi (Bajra)	Blast	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Tobacco	Leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Onion	Downy mildew	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Potato	Early blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Late blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Tomato	Early blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Late blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Grey leaf mould	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Chillies	Fruit rot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Brinjal	Blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Cucurbits	Downy mildew	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Anthraco- nose	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Cauliflower	Leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Cumin	Early blight	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Apple	Scab	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
	Black rot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	

Citrus	Greasy spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Cherries	Leaf spot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Grapes	Downy mildew	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Guava	Fruit rot	1.125- 1.5 KG	1.5-2 KG	750-1000 Lt	
Ziram 80% WP					
Grape	Downy mildew	1.2-1.6 kg	1.5-2.0 kg	750-1000	--
	Anthraco nose	1.2-1.6 kg	1.5-2.0 kg	750-1000	--
Apple	scab	1.2-1.6 kg	1.5-2.0 kg	750-1000	21
Potato	Early blight	1.2-1.6 kg	1.5-2.0 kg	750-1000	3
Tomato	Early blight	1.2-1.6 kg	1.5-2.0 kg	750-1000	3

Combination fungicides

Crop	Common name of the disease	Dosage per ha (a.i.)	Dosage/ha (Formulation)	Dilution	Waiting Period
Captan 70% + Hexaconazole 5% WP					
Chillies	Fruit rot (Anthracnose)	375-750 gm	500-1000 gm	500 lt.	5 days
Potato	Early blight & Late blight	375-750gm	500-1000 gm	500 lt.	21 days
Carbendazim 12% + Mancozeb 63% WP					
Groundnut	Leaf spot, blast	375 gm	500 gm	500 lt.	72
Paddy	Blast	563 gm	750 gm	750 lt.	57
Carbendazim 25%+ Mancozeb 50% WS					
Groundnut	Collar rot Dry root rot Tikka leaf spot	(7.5+15.0)To (8.75+17.5) (for 10 kg seed)	30-35	0.1	This is used as seed treatment

Potato	Late blight Black scurf	(1.5 + 3.0) To (1.75 + 3.5) (for 10 kg seed)	6 - 7	2	This is used as seed treatment
Carbendazim 25 %+ Flusilazole 12.5% SE					
Paddy	Sheath blight	300-360	800-960	500	54
<u>Carboxin 37.5% + Thiram 37.5% DS</u>					
Wheat	Loose smut and other seed borne and early soil borne diseases	2.25 gm/Kg seed	3.0 gm/Kg seed	0	About 3 Month
Soybean	Collar rot, Charcoal rot and other seedling diseases	2.25 gm/Kg seed	3.0 gm/Kg seed	0	About 3 Month
Cotton	Root rot, Bacterial bight	2.5 gm/Kg seed	3.5 gm/Kg seed	0	About 3 Months
Groundnut	Collar rot,Seed rot,Root rot, Stem rot	2.25gm/ Kg seed	3 gm/Kg seed	0	About 3 Months
Pigeon pea	Seed rot, Root rot, Stem rot, Fusarium wilt	3 gm/Kg seed	4 gm/Kg seed	0	About 3 Months
Potato	Black scurf	1.87gm/Kg seed	2.5 gm/Kg seed	0	About 3 Months
Cymoxanil 8% + Mancozeb 64% WP					
Grapes	Downy mildew	1080-1440 gm	1500 ó 2000gm	500-1000.	10 days
Potato	Late blight	1080 gm	1500 gm	500-750	10 days
Tomato	Late blight	1080 gm	1500 gm	500-750	10 days
Cucumber	Downy mildew	1080 gm	1500 gm	500-600	10 days
Famoxadone 16.6% + Cymoxanil 22.1% SC					
Grapes	Downy mildew	210	500	500-750	27

Potato	Late blight	210	500	500	40
Tomato	Early and Late Blight	210	500	500	3
Fenamidone 4.44% + Fosetyl AI 66.7% WG					
Grape	Downy mildew	88.8 + 1334 - 111.0+ 1667.5 gm	2000-2500 gm	500-750 lt.	90 days
Fenamidone 10% + Mancozeb 50% WDG					
Potato	Late blight	125+625-150+750 gm	1250-1500 gm	500 lt.	30
Grapes	Downy mildew	150+750 gm	1500 gm	500 -750	85
Iprodione 25% + Carbendazim 25% WP					
Rice	Sheath Blight Blast	250 gm	500 gm	500 lt.	30
Metalaxyl M 4% + Mancozeb 64% WP					
Grapes	Downy mildew	0.17 %	0.25%	500-1000 lt.	8 days
Potato	Late blight	0.17 % or 1700 gm	0.25% or 2500 gm	500-1000 lt.	24 days
Black pepper	Phytophthora foot rot	0.17 % or 1700gm	0.25% or 2500 gm	2 lt./vine as foliar spray or 3 lt./vine as soil drench	21 days
Mustard	Downy mildew & White rust	0.17 % or 1700gm	0.25% or 2500 gm	1000 lt.	60 days.
Metalaxyl 8% + Mancozeb 64% WP					
Grapes	Downy mildew	2000 g or 0.4%	2500 g or 0.5%	500 lt.	Not less than 7 weeks
Tobacco Nursery	Damping off	3600 g or 0.072%	5000 g or 0.1%	5000 lt.	Not less than 7 weeks
	Leaf blight/ Black Shank	1440 g or 0.14%	2000 g or 0.2%	1000 lt.	Not less than 7

	(Soil drench at sowing and spray at 30 days after sowing)				weeks
Potato	Late blight	1800 gm or 0.18%	2500 gm or 0.25%	1000 lt.	Not less than 7 weeks
Mustard	White rust and Alternaria blight	1800 gm or 0.18%	2500 gm or 0.5%	1000 lt.	Not less than 8 weeks
Black Pepper	Phytophthora foot rot	1.8 g.a.i/vine or 0.09%	2.5 gm/vine or 0.125%	2 lt./vine (spraying) 5 lt. / vine (soil drenching)	Not less than 21 weeks
Pearl millet	Downy mildew	1440 gm or 0.28%	2000 gm or 0.4%	500 lt.	Not less than 7 weeks
Metiram 55% + Pyraclostrobin 5% WG					
Tomato	Early blight	900-1050	1500-1750	500	5
Potato	Late blight	900-1050	1500-1750	500	15
Grape	Downy Mildew	900-1050	1500-1750	750	34
Propiconazole 13.9% + Difenoconazole 13.9% EC					
Paddy	Sheath blight, dirty panicle	0.02% - 0.03%	(0.07-0.1%) 0.7-1.0ml/l	500	46
Tebuconazole 50% + Trifloxystrobin 25% WG					
Rice	Sheath blight, Leaf and Neck Blast, Glume discoloration (dirty panicle)	100 + 50	200	375-500	21 days

* Warning: When used as a foliar spray on Red Delicious variety of apples. This product may cause resetting.

** In case of fruit trees the values given pertain to the concentration of a.i. in spray solution and volume of spray solution required per tree.