



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

MAJOR USES OF PESTICIDES
(Registered under the Insecticides Act, 1968)

(UPTO - 30/06/2020)

(Based on certificate issued)

Disclaimer: The document has been compiled on the basis of available information for guidance and not for legal purposes.

FUNGICIDES

1. Fungicides single product formulations use (Page No. – 02 to 32).
2. Fungicides combination uses (Page No. – 33 to 46)

1. Fungicides single product formulations use

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)	
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	Anthracnose, Powdery mildew	0.025%	0.1%	100 ml/ 100 Ltr. (depending upon size of tree)	5
Tomato	Early & Late blight	125 gm	500 ml	500	3
Potato	Late Blight	0.025% (125) gm	500 ml	500	12
Cucumber	Downey mildew, Powdery mildew	125 gm	500	500	5
Cumin	Blight & Powdery mildew	115 gm	500	500	28
Pomegranate	Leaf & Fruit spot	0.023%	0.1%	500 L/ha (or depending on size of tree)	5
Aureofungin 46.15% w/v SP					
Paddy(Rice)	Blast, Brown leaf spot	-	0.005%	500	30
Grapes	Downey mildew	-	0.005%	750	15

	Anthracnose	-	0.05%	750	
Citrus	Gummosis	-	1.0%	750 (Soil drench)	30
Apple	Powdery mildew	-	0.005%	10 lit./tree	30
	White root rot	-	0.2%	5-10 injection 2 gm/tree	
Potato	Early blight	-	0.005%	750	30
Bitertanol 25% WP					
Groundnut	Rust	250 gm	1000 gm	500	30
	Tikka	250 gm	1000 gm	500	30
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, Ornamental	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 gm	1000	NA
Paddy(Rice)	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)	15-25 gm 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 (Rice)	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 (Rice)	Blast	125-250 gm	250-500gm	750	(wet slurry treatment)
	Sheath blight	1gm/ kg seed	2 gm/ kg seed	1Lit./10 kg seed	(wet slurry treatment)
	Aerial phase	125-250 gm	250-500gm	750	(wet slurry treatment)
Wheat	Loose smut	1gm/kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Barley	Loose smut	1 gm/kg seed	2 gm/kg seed	1Lit./10 kg seed	(wet slurry treatment)
Tapioca	Set rot	0.5gm	1	1	-
Cotton	Leaf spot	125	250	750	-
Jute	Seedling blight	1 gm / kg seed	2 gm/kg seed	1Lit./10 kg seed	(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	Powdery mildew	125 gm	250 gm	600	-
Cluster Beans	Powdery mildew	175 gm	350 gm	750	-
Cucurbits	Powdery mildew	150 gm	300 gm	600	-
	Anthracnose	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	10Lit./tree	-
Grapes	Anthracnose	150 gm	300 gm	600	-
Walnut	Downy leaf spot	1.5 gm	3 gm	10 Lit./tree	-
Rose	Powdery mildew	0.5 gm	1 gm	2	-
Ber	Powdery mildew	5 gm	10 gm	10 Lit./tree	-

Chillies	Damping Off	1 gm/kg seed	2 gm/kg seed	1 Lit./tree	(wet slurry treatment)
Moong	Powdery mildew	250	500	750	-
	Leaf spot & Web blight	125-250	250-500	750	-
Cow Pea	Leaf Spot	150	300	600	-
	Collar rot	150	300	600	-
	Anthracnose	150	300	600	-
	Powdery Mildew	150	300	600	-
Tobaco	Frog eye spot	112.5	225	750	-
	Anthracnose	112.5	225	750	-
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	2-2.5gm/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
	Covered smut	1.5 - 1.875 gm/ kg seed	2-2.5 gm/ kg seed	N/A	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
Carpropamid 27.8% SC					
Rice (Paddy)	Blast	0.03%	0.1%	300-500 depending upon crop stage	
Chlorothalonil 75% WP					
Groundnut	Tikka leaf spot	0.66 - 0.863	0.88-1.150	600-800	14
	Rust	0.66 - 0.863	0.88-1.150	600-800	14

Potato	Early & Late blight	0.66 - 0.937	0.875-1.250	600-800	14
Apple	Scab	0.150% (150gm/10 Ltr. water)	0.200% (200gm/100 water)	10 Ltr. water per tree	45
Grapes	Anthracnose and Downy mildew	0.15%(150 gm/100 Ltr. water)	0.2%(200gm/ 100L water)	100	60
Chilli	Fruit rot	600	800	750	10
Cauliflower	Leaf spot	1.5 g a.i./Ltr.	2.0 g/Ltr.	500	3
Watermelon	Downy mildew and Leaf spot	1.5 g a.i./Ltr.	2.0 g/Ltr.	500	3

Copper Oxychloride 50% WG

Grape	Downy mildew	0.12% or 120 g/100Ltr. water	0.24% or 240g/100 Ltr. water	As required depending upon PP equipment used	30
Mango	Anthracnose	0.12% or 120g/100 Ltr. water	0.24% or 240g/100 Ltr. water	As required depending upon PP equipment used	10

Copper oxychloride 50% WP

Citrus	Leaf spot	1.25	2.5	750-1000	-
	Canker	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	-
Potato	Early blight	1.25	2.5	750-1000	-
	Late blight	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	-
Grapes	Downy mildew	1.25	2.5	750-1000	-
Coconut	Bud rot	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	-

Copper Hydroxide 53.8% DF

Potato	Late blight	525	1500	500	22
Grape	Downy mildew	525	1500	1000	12
Chilli	Anthracnose	350	1000	500	5
Rice (Paddy)	False smut, Bacterial leaf blight	525	1500	500	10

Copper Hydroxide 77% WP

Rice (Paddy)	False smut	1000 gm	2000 gm	750	
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Cymoxanil 50% WP

Grapes	Downey mildew	0.12%	0.24% or 240 gm/100 ltr. water	As required depending upon the crop stage and equipment used	15
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Cyazofamid 34.5% SC

Potato	Late blight	80 g	200 ml	500	27
Tomato	Late blight	80 g	200 ml	500	3-5
Grapes	Downy mildew	80 g	200 ml	500	7

Difenoconazole 3% WS

Wheat	Loose smut	6.0	200	This is used as seed dresser	This is used as seed dresser
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Difenoconazole 25% EC

Apple	Scab	0.004% or 4 g/100 ltr. water	0.015% or 15ml/100 ltr. water	As required depending upon the size of the plant and plant protection	14
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				equipment used	
Paddy (Rice)	Sheath blight	0.0125% or 12.5g/100 ltr. water	0.05% or 50 ml/100 ltr. water	500	25
Chilli	Die-back, Fruit rot	0.0125% or 12.5g/100 ltr. water	0.05% or 50 ml/100 ltr. water	500-1000 (as per the size of plant)	15
Cumin	Blight, Powdery mildew	0.0125% or 12.5 g/100 ltr.. water	0.05% or 50 ml/100 ltr.. water.	500	15
Onion	Purple blotch	0.025% or 25 g/100 ltr. water	0.1% or 100 ml/100 ltr.. water.	500	20
Pomegranate	Fruit rot	0.025% or 25g/100ltr. water	0.1% or 100 ml/100 ltr. water.	500	7
Grape	Anthracnose, Powdery mildew	0.0075% or 7.5 g/100 ltr. water	0.03% or 30ml/100 ltr. of water	500	10
Groundnut	Leaf spot	0.025% or 25g/100 ltr. water	0.1% or 100 ml/100 ltr..water.	As required depending upon the size of the plant and plant protection equipment used	34
Dimethomorph 50% WP					
Grapes	Downy mildew	500 gm	1000 gm	750 L	25
Potato	Late blight	500 gm	1000 gm	750 L	16
Dinocap 48% EC					
Mango	Powdery mildew	2.4 gm	5gm	10	-
Rose	Powdery mildew	0.96 gm	2ml	10 lit. water	-

Dithianon 75% WP					
Apple	Scab	1350 gm	1800 gms	2400 L	14-21
Dodine 40% SC					
Apple	Alternaria leaf blight/Blotch	0.05	0.075	10 ltr. / tree	21
	Premature leaf fall	0.05	0.075	10 ltr./ tree	21
Dodine 65%WP					
Apple	Scab	0.05%	0.075%	10	21
Ediphenphos 50% EC					
Paddy (Rice)	Blast	250-300	500-600	750-1000	21
	Brown leaf spot	250-300	500-600	750-1000	21
Flusilazole 40% EC					
Rice (Paddy)	Sheath blight	120g a.i./ha	300 ml/ha	500	24
Chilli	Powdery mildew	40-60 g a.i./ha	100-150 ml/ha	500	5
Fluxapyroxad 333 g/l FS					
Sorghum	Anthracnose	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A(Seed Dresser)
Soybean	Rhizoctonia root rot, Cotyledonary spot	0.33	1.0 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
Cotton	Seedling Disease	0.49	1.5 ml/kg seed	Sufficient to coat the seeds uniformly	N.A (Seed Dresser)
Fosetyl-AL 80% WP					
Grapes	Downey mildew	1120- 1600 gm	1400- 2000 gm	750-1000	30
Cardamom	Azukhal 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% (50ml/100lt)	As required	30
Rice (Paddy)	Blast, Sheath blight	50gm	1000 ml	500	40
Groundnut	Tikka leaf spot	75gm	1500 ml	500	30
Mango	Powdery mildew	0.005% (5g/100 lit)	0.1% (100ml/100 lt)	As required	30
Soybean	Rust	0.005% (5g/100 lit)	0.1% or (100ml/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	25-50 gm	500-1000 ml	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 (Paddy)	Sheath blight	0.01% (10 g/100lt. 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
Hexaconazole 75% WG					
Paddy (Rice)	Sheath blight & Sheath rot	50	66.7	500	30
Groundnut	Tikka leaf spot, rust	50	66.7	500	31
Chilli	Leaf spot, anthracnose,	50	66.7	500	7

	Powdery mildew				
Iprodione 50% WP					
Rapeseed/ Mustard	Alternaria blight	1.125Kg -1.5 kg	2.25kg-3kg	750-1000	50
Rice (Paddy)	Sheath blight	1.125kg	2.25kg	750	35
Tomato	Early blight	0.75kg	1.5kg	500	15
Grapes	Anthracnose	0.5-1.0 kg	1.0–2.0kg	500	20
Isoprothiolane 40% EC					
Rice (Paddy)	Blast	300	750	500-1000	60
Kasugamycin 3% SL					
Rice (Paddy)	Blast	30-50 gm 0.030% 0.050%	1000-1500 ml	750-1000	30
Tomato	Early blight	30-37.5 0.03- 0.0375%	1000-1250 ml	500-600	03
Kitazin 48% EC					
Rice (Paddy)	Blast, Sheath blight	0.10% or 100 gram in 100 ltr. 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 /die- back	0.10% or 100 gram in 100lit. 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 100lit. of water	0.20% or 200 ml in 200 lt. of water	As required depending upon crop stage and plant protection equipment used	5
Potato	Early blight	0.10% or 100 gram in 100 lit.	0.20% or 200 ml in 200 lit. of water	As required depending upon crop stage and plant	48

		of water		protection equipment used	
Onion	Purple blotch	0.10% or 100 gram in 100lit. 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	Anthracnose	0.10% or 100 gram in 100lit. 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	Anthracnose	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 (Rice)	Blast, Sheath blight	250gm	500 ml	500	30
Grapes	Powdery mildew, Downey mildew	300-350 gm	600-700ml	500	7
Chillies	Powdery mildew, Fruit rot , die back, twig blight	250	500	500	25
Soybean	Rust	250	500	500	25
Potato	Early blight & late blight	250	500	500	25
Cotton	Leaf spot, Grey mildew	250	500	500	25
Wheat	Rust, Leaf blight	250	500	500	25
Maize	Turicum leaf blight, Rust	250	500	500	25

Lime Sulphur 22% SC

Apple	Scale, Powdery	0.22%	The liquid is used at 1% in		2% pre & 1% post blossom
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	mildew		conventional sprayers.		
Cherry	Leaf spot	0.44-1.10/ha	2-5 lit/hectare		3 applications after petal fall , 2 weeks later & after harvest
Grapes	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		February followed by 2 dusting in summer
Pear	Black spot	0.44-1.10/ha	2-5 lit/hectare		At whit bud, Petal fall
Plum	Black spot	0.44-1.10/ha	2-5 lit/hectare		Delayed dormant spray
Rose	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		Delayed dormant spray
Bean	Rust	0.22%	The liquid is used at 1% in conventional sprayers.		2% pre & 1% post blossom
Peach	Powdery mildew	0.44-1.10/ha	2-5 lit/hectare		Only one application before the buds swell, 3 pre harvest application

Mancozeb 35% SC

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

Mancozeb 75% WG

Tomato	Early blight	750 gm	1000 gm	500 Ltr.	5-6
Potato	Late blight	750gm	1000gm	500 Ltr.	3-5

Apple	Scab, Pre-mature leaf fall, Alternaria spot/blight, sooty blotch	18.75-22.5/tree	25-30/tree	10 L/tree	40
Mancozeb 75% WP					
Wheat	Brown& black rust, Blight	1.125-1.5 kg	1.5-2kg	750 Ltr..	-
Maize	Leaf blight, Downy mildew	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Paddy (Rice)	Blast	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Jowar	Leaf spot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Potato	Late blight, Early blight	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Tomato	Late blight, Buck eye rot, Leaf spot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-
Chilies	Damping off	2.25 g	3 g (soil drench)	1000 Ltr.	-
	Fruit rot, Ripe rot, Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
Cauliflower	Collar rot	2.25 gm	3gm	1000 Ltr.	-
	Leaf spot	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
Groundnut	Tikka disease & rust	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
	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, Downy mildew, Anthracnose	1.125-1.5 kg	1.5-2 kg	750 Ltr.	-
Guava	Fruit rot	15 g/tree	20 g/tree	10 Ltr.	-
Banana	Cigar end rot, Tip rot, Sigatoka leaf spot	1.125-1.5 kg	1.5-2kg	750 Ltr.	-

Apple	Scab& sooty blotch	22.5 g /tree	30 gm/tree	10 Ltr.	-
Cumin	Blight	1.125-1.5 kg	1.5-2 kg	500 Ltr.	-

Mandipropamid 23.4% SC

Grapes	Downy mildew	0.2 ml/Ltr.	0.8 ml/Ltr.	500-1000	5
Potato	Late blight	0.2 ml/Ltr.	0.8 ml/Ltr.	500-750	40
Tomato	Late blight	0.02% or 0.2 ml/Ltr.	0.08% or 0.8ml/Ltr.	500	5

Metalaxyl-M 31.8% ES

Maize	Downey mildew	0.76 g/kg seed	2.4 ml/kg seed	This is used as seed dresser
Chilli	Damping Off	0.64 g/kg seed	2.0 ml/kg seed	This is used as seed dresser
Tomato	Damping Off	0.64 g/kg seed	2.0 ml/kg seed	This is used as seed dresser
Pearl millet	Downey mildew	0.64 g/kg seed	2.0 ml/kg seed	This is used as seed dresser
Sorghum	Downey mildew	0.64 g/kg seed	2.0 ml/kg seed	This is used as seed dresser
Sunflower	Downey mildew	0.64 g/kg seed	2.0 ml/kg seed	This is used as seed dresser
Mustard	Downey mildew and White rust	1.11	3.5ml/kg seed	This is used as seed dresser

Metalaxyl 35% WS

Maize	Sorghum Downy mildew, Sugarcane	Slurry seed treatment with 240g/	700g/100 Kg seed	0.75-1.0/100 Kg seed	3½-4 months Depending on the variety
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	downy mildew, Phillippine Downy mildew, Browny stripe downy mildew	100 kg seed			
Bajra	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75- 1.0/100kg seed	3-3½ months Depending on the variety
Sorghum	Downy mildew	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75- 1.0/100kg seed	3½-4months Depending on the variety
Sunflower	Downy mildew.	Slurry seed treatment with 200g/100 Kg seed	600g/100 Kg seed	0.75- 1.0/100kg seed	3½-4months Depending on the variety
Mustard	White rust	Slurry seed treatment with 200g/100 Kg seed	600gm/100 Kg seed	0.75- 1.0/100kg seed	3½-4months Depending on the variety

Metiram 70% WG

Tomato	Alternaria blight	1750gm	2500gm	500-700 Lt.	6
Groundnut	Tikka	1400gm	2000gm	500-700 Lt.	16
Potato	Late blight, Early Blight	1400 gm	2000 gm	500-750 Lt	21
Grape	Downey mildew	1400 gm	2000 gm	500-750 Lt	21

Metrafenone 500 g/l SC

Grape	Powdery mildew	125	250	750	22
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Mango	Powdery mildew	200	0.2ml/l	1000	35
Apple	Powdery mildew	187.5	0.15ml/l	2500	42
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
Oxathiapiprolin 10.1% OD					
Potato	Late blight	20	200	500	22 days
Grapes	Downey mildew	40	400	1000	5 days
Penconazole 10% EC					
Grapes	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100 Ltr. water	Depending upon the requirement	30
Apple	Scab	0.005% or 5 gm /100 Ltr. water	50ml/100 Ltr. water	10 Ltr. Water per tree	30
Mango	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100 Ltr. water	10 Ltr. Water per tree	30
Pulses (Black gram /Green gram)	Powdery mildew	0.005% or 5 gm/100 Ltr. water	50ml/100 Ltr. water	500 Ltr./ha	30
Penflufen 22.43% FS					

Potato	Black Scurf	0.02	0.083	83	800 kg seed tubers of potato are dipped in the solutions of fungicide for 10 minutes. Tubers after treatment are dried in shade and then sown.
Pencycuron 22.9% SC					
Rice (Paddy)	Sheath blight	150-187.5 gm	600-750 ml	500	69
Potato tuber	Black scurf	0.0625-0.125	0.25-0.50	-	78
Picoxystrobin 22.52% w/w SC					
Rice (Paddy)	Rice blast	150	600	500	12
Grape	Downey mildew, Powdery mildew	100	400	750-1000	7
Soybean	Rust(<i>Phakopsora pachyrhizi</i>) Leaf spot (<i>Cercospora kikuchii</i> & <i>Alternaria alternata</i>)	100	400	500	25
Cumin	Cumin blight (<i>Alternaria burnsi</i>)	100	400	500	20
Propiconazole 25% EC					
Wheat	Karnal bunt (<i>Neovossia indica</i>)	125gm	500gm	750	30
	Leaf rust / Brown Rust (<i>Puccinia recondite</i> F.sp. <i>tritici</i>)	125gm	500gm	750	30
	Stemrust (<i>B.graminis</i> f.sp. <i>. tritici</i>)	125gm	500gm	750	30

	Stripe rust /Yellow Rust (<i>P. striiformis</i>)	125gm	500gm	750	30
Rice (Paddy)	Sheath blight (<i>Rhizoctonia solani f. sesakii</i>)	125gm	500gm	750	30
Groundnut	Earlyleaf spot (<i>Cercospora arachidicola</i>)	125gm	500gm	750	15
	Lateleaf spot (<i>C. personata</i>)	125gm	500gm	750	15
	Rust (<i>Puccinia arachidis</i>)	125gm	500gm	750	15
Tea	Blister blight	31.25- 62.50gm	125-250gm	175-250	7
Soyabean	Rust(<i>Phakopsoa pachyrhizi</i>)	125gm	500gm	500	26
Cotton	Alternaria leaf spot	125gm	500gm	500	23

Propineb 70% WP

Apple	Scab	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. 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 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon size of the tree and plant protection equipment used	10
Potato	Early & Late blight	0.21% or 210g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	15

Chilli	Die-back	0.21% or 210 g/100 Ltr. water	0.5% or 500 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	10
Tomato	Buck eye rot	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	10
Grapes	Downy mildew	0.21% or 210 g/100 Ltr. water	0.30% or 300 gram/100 Ltr. water	As required depending upon crop stage and plant protection equipment used	40
Rice (Paddy)	Brown leaf spot and Narrow leaf spot	1050 to 1400 g	1500 to 2000 g	Use 500 Litres spray volume/hectare	-
Cotton	Alternaria leaf spot	875-1050	1250-1500	500 Ltr./ha	27
Pyraclostrobin 20% WG					
Tomato	Early blight	75-100 gm	375-500gm	500	3
Soybean	Frog eye leaf spot (Cercospora) & Alternaria leaf spot	75-100	375-500	500	26
Cotton	Alternaria Leaf blight	100	500	500	14
Groundnut	Tikka disease	100	500	500	29
Corn	Turicum leaf blight	100	500	500	40
Banana	Sigatoka leaf spot	150	750	500	103
Pyraclostrobin 100 g/l CS					
Paddy (Rice)	Blast Disease	100	1000	500	18

(Streptomycin Sulphate 90% + Tetracylin Hydrochloride 10%) 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.	-	-
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.	-	-
Potato	Blackleg 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	-	-

			<p>solution for half an hour.</p> <p>Spray: Two to three sprays of 40 to 50 ppm Solution at an interval of 20 days. First spray 30 days after planting.</p>		
Tobacco	Wildfire	-	<p>Spray Streptocycline 40 to100 ppm solution at two leaf stage of the plant.</p> <p>Repeated application at an interval of 7 days is necessary till the plants get established in the field.</p>	-	-
Tomato	Bacterial Leaf spot	-	<p>Spray seedlings with streptocycline 40 to100 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.</p>	-	-

Paddy (Rice)	Bacterial Leaf blight	-	<p>Seeds treatment: Prepare streptocycline 40 ppm solution and soak seeds for 12hours at room temperature before sowing.</p> <p>Seedling treatment: Dip the seeding in streptocycline 40 to100 ppm solution. The antibiotic will be absorbed through the injured roots and penetrate the vascular bundles insides 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 40gms with 350 to 420 gms copper</p>	-	-

			oxychloride (50% Wettable powder) in 67 liters of water per hectare with air blast sprayer, covering two rows on either side.		
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Sulphur 40% SC

Beans	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Cumin	Powdery mildew	1.40 g	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	1.50-2.00 Kg	3.75-5.00 Kg	1000	-
Opium	Powdery mildew	1.16 Kg	3.00 Kg	1000	-
Peas	Powdery mildew	2.25-3.00 Kg	5.65-7.50 Kg	750-1000	-
Roses	Powdery mildew	1.50-2.00 Kg	3.75-5.00 Kg	1000	-

Sulphur 52% Flowable

Pea	Powdery mildew	1.04 Kg	2.00 Ltr.	400	-
Chilli	Powdery mildew	1.04 Kg	2.00 Ltr.	400	-

Sulphur 55.16% SC

Grapes	Powdery mildew	0.165% or 165 g/10 Ltr. water	0.30% or 300 ml/100 Ltr. water	As required	10
Mango	Powdery mildew	0.165% or 165g/10 Ltr. water	0.30% or 300 ml/100 Ltr. 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	3-4g/Kg seed	1Lt/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	-

Sulphur 80% WDG

Grapes	Powdery mildew	1.50-2.00 kg	1.875-2.50 Kg	750-1000	-
Cowpea, Guar, 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	-
Wheat	Powdery mildew	2000	2500	500	24

Sulphur 85% DP

Grape	Powdery mildew	12.75-17 kg	15-20 kg	-	-
Groundnut	Tikka leaf spot	12.75-17 kg	15-20 kg	-	-
Beans	Powdery mildew	12.75-17 kg	15-20 kg	-	-
Cowpea, moong, Urd	Rust	12.75-17 kg	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	-	-
Cumin & 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/10kg seed	10 to 12.5Lt/10 kg seed		
Tebuconazole 5.36% FS					
Wheat	Loose smut	0.2	3.33/10 kg of seed	-	-
Tebuconazole 5.4% w/w FS					
Groundnut	Collar rot, Stem rot, Wilt	0.24 g/10 Kg of seed		-	Seed dresser
Chickpea	Root rot, Wilt	0.24 g/10 Kg of seed	4.0 ml/10 Kg of seed	-	Seed dresser
Wheat	Loose smut & flag smut	0.18 g/10 Kg of seed	3.0 ml/10 Kg of seed		Seed dresser
Tebuconazole 25.9% EC					
Chilli	Fruit rot, Powdery mildew	0.125- 0.1875 kg	0.500-0.750 lit	500	5
Groundnut	Tikka & rust	0.125- 0.1875 kg	0.500-0.750 lit	500	49
Rice (Paddy)	Blast, Sheath blight	0.1875 kg	0.750 lit	500	10
Onion	Purple blotch	0.1563- 0.1875	0.625-0.750	500	21
Soybean	Anthracnose (pod blight)	0.1563	0.625	500	14
Black gram	Leaf spot, Anthrocnose	187.5	750	500	17
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

Rice (Paddy)	Blast	0.1875	750	500	10
Wheat	Yellow rust	0.1875	0.750	500	41
Onion	Purple blotch	0.1875	0.1875	500	10
Cumin	Alternaria blight & Powdery mildew	0.1875	0.750	500	28

Tebuconazole 38.39% w/w SC

Wheat	Leaf blight	258	600	375-500	5
Cabbage	Alternaria leaf spot	258	600	375-500	5

Tetraconazole 3.8% w/w EW

Grape	powdery mildew	25-30	625-750	1000	30
Mango	powdery mildew	50	1250	1000	24
Watermelon	powdery mildew	38	1000	500	12

Tetraconazole 11.6% w/w (12.5% w/v) SL

Cotton	Root rot <i>(Rhizoctonia solani)</i>	15	120	Sufficient to coat the seed uniformly	NA (Seed dresser)
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Thifluzamide 24% SC

Rice (Paddy)	Sheath blight, <i>(Rhizoctonia solani)</i>	90gm	375 gm	500	28
Tomato	Early blight	120	500	500	7
Potato	Black Scurf	0.6g a.i./10 kg potato tuber	2.5ml/10 kg potato tuber	-	Used as seed treatment

Thiophanate Methyl 70% WP

Papaya	Powdery mildew	500gm	715gm	750-1000	4-8
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Apple	Scab	500gm	715gm	750-1000	3
Tomato	Ring rot	500gm	715gm	750-1000	7
Bottle gourd	Anthracnose	1000gm	1430gm	750-1000	1
Grapes	Powdery mildew,	500	715	750-1000	7
	Anthracnose,	500	715	750-1000	
	Rust	500	715	750-1000	

Thiophanate methyl 70% WG

Bottle gourd	Anthracnose	750-1000	1070-1430	750-1000	1
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Thiram 40% FS

Maize	Seedling blight	9.6gm/10 kg seeds	24ml/10 kg seeds	100 ml	Seed dresser
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Thiram 75% WS

Groundnut	Collar rot	37.5gm	50gm	1	7-10
Wheat	Flag smut	18.8-22.5 gm	25-30gm	1	7-10
	Karnal bunt	18.8-22.5 gm	25-30gm	1	7-10
Barley	Leaf stripe	18.8-22.5 gm	25-30gm	1	7-10
Maize	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Sorghum	Loose smut	18.8-22.5 gm	25-30gm	1	7-10
	Seedling blight	18.8-22.5 gm	25-30gm	1	7-10
Potato	Scab	18.8-22.5 gm	25-30gm	1	7-10
Rice (Paddy) & cotton	Seed born disease	18.8-22.5 gm	25-30gm	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
	Brown rust, Yellow rust, Black rust	250	1.0	750	25
Pea	Rust, Powdery mildew	0.025%	0.100%	750	25

Grapes	Powdery mildew	0.0025%	0.010%	750	25
Tricyclazole 75% WP					
Paddy (Rice)	Blast	225-300 gm	300-400 gm	500	30
Validamycin 3% L					
Rice (Paddy)	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	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
	Leaf blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Paddy (Rice)	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Wheat	Rust, blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Maize	Leaf blight	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Ragi (Bajra)	Blast	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Tobacco	Leaf spot	1.125-1.5KG	1.5-2KG	750-1000 Lt	
Onion	Downy mildew	1.125-1.5KG	1.5-2KG	750-1000 Lt	

	Blight	1.125- 1.5 KG	1.5-2KG	750-1000 Lt	
Potato	Early blight	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Late blight	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Tomato	Early blight	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Late blight	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Grey leaf mould	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Chillies	Fruit rot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Leaf spot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Brinjal	Blight	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Cucurbits	Downy mildew	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Anthracnose	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Leaf spot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Cauliflower	Leaf spot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Cumin	Early blight	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Apple	Scab	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
	Black rot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Citrus	Greasy spot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Cherries	Leaf spot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Grapes	Downy mildew	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Guava	Fruit rot	1.125- 1.5KG	1.5-2KG	750-1000 Lt	
Ziram 80% WP					
Grape	Downy mildew	1.2- 1.6 kg	1.5-2.0kg	750-1000	--
	Anthracnose	1.2- 1.6 kg	1.5-2.0kg	750-1000	--

Apple	scab	1.2- 1.6 kg	1.5-2.0kg	750-1000	21
Potato	Early blight	1.2- 1.6 kg	1.5-2.0kg	750-1000	3
Tomato	Early blight	1.2- 1.6 kg	1.5-2.0kg	750-1000	3

2. Fungicides combination uses

Crop	Common name of the disease	Dosage/ha (a.i.)	Dosage/ha (Formulation)	Dilution	Waiting Period
Azoxystrobin 4.8% w/w + Chlorothalonil 40% w/w SC					
Watermelon	Leaf spot, downy mildew and powdery mildew	1.344 (0.144+1.2)	3.0	500	5
Cucumber	Leaf spot, downy mildew and powdery mildew	1.344 (0.144+1.2)	3.0	500	3
Cauliflower	Leaf spot, downy mildew	1.344 (0.144+1.2)	3.0	500	3
Azoxystrobin 18.2% w/w + Cyproconazole 7.3% w/w SC					
Wheat	Rust, Powdery mildew	0.26	1	500	50
Maize	Downy mildew, Turcicum leaf blight, Rust	0.26	1	500	52
Ametoctradin 27% + Dimethomorph 20.27% w/w SC					
Grape	Downey mildew	420-525	800-1000 ml	750	34
Cucumber	Downey mildew	420-525	800-1000 ml	500	07
Potato	Late Blight	420-525	800-1000 ml	500	32
Tomato	Late Blight	420-525	800-1000 ml	500	03
Azoxystrobin 18.2% + Cyproconazole 7.3% w/w SC					
Wheat	Rust, Powdery mildew	0.26	1	500	50
Maize	Downy mildew, Turcicum leaf blight, Rust	0.26	1	500	52
Azoxystrobin 18.2% + Difenoconazole 11.4% w/w SC					
Chilli	Anthracnose & Powdery Mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	5
Tomato	Early blight & Late blight	0.03% or 0.3 g/l	0.1% or 1 ml /	500	5

			Litre water		
Paddy (Rice)	Blast & sheath blight	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	31
Maize	Blight & Downey Mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	26
Wheat	Rust & Powdery mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	35
Cotton	Leaf spot and Grey mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	12
Turmeric	Leaf blotch, leaf spot and Rhizome rot	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	60
Onion	Purple blotch, Stemphylium blight and Downy mildew	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	500	7
Sugarcane	Red rot, Smut and Rust	0.03% or 0.3 g/l	0.1% or 1 ml / Litre water	400	265
Azoxystrobin 8.3% + Mancozeb 66.7% WG					
Grape	Powdery mildew Leaf spot, Anthracnose	124.5+1000	1500	500-750(in water) depending on crop canopy	21
Chilli	Powdery mildew, Downy mildew, Anthracnose	124.5+1000	1500	500(in water)	7
Azoxystrobin 7.1% + Propiconazole 11.9% w/w SE					
Rice	Sheath Blight	37.5+62.5	500	500	43
Azoxystrobin 11% + Tebuconazole 18.3% w/w SC					
Chilli	Fruit rot, Powdery mildew, Die-back	72+120	600	500-750	5
Rice (Paddy)	Sheath Blight	82.5+137.25	750	800	-
Onion	Purple blotch	82.5+137.25	750	800	7

Apple	Scab, powdery mildew& premature leaf fall	0.11+0.183	1.0	8 – 12	10
Wheat	Yellow Rust	82.5+137.25	750	500	-
Tomato	Early blight	82.5+137.25	750	500	7
Potato	Early blight, Late blight	82.5+137.25	750	500	-
Grape	Downy mildew, Powdery mildew	82.5+137.25	750	500	10
Azoxystrobin 12.5% + Tebuconazole 12.5% SC					
Chilli	Powdery mildew & fruit rot	0.1+0.1 (0.2)	0.800	500	5
Benalaxyl 8% + Mancozeb 65% WP					
Cucumber	Downy mildew	200+1625	2500	500	5
Boscalid 25.2% +Pyraclostrobin 12.8% WG					
Grape	Downey Mildew& Powdery mildew	190-228	500-600	750-1000	34
Chilli	Powdery mildew	228	600	500	10
Apple	Powdery mildew	285	750	2500	41
Onion	Purple blotch, stemphylum blight	190	500	500	24
Tomato	Early blight	190	500	500	10
Captan 70% + Hexaconazole 5% WP					
Chillies	Fruit rot (Anthracnose)	375-750	500-1000	500	5
Potato	Early blight & Late blight	375-750	500-1000	500	21
Black gram	Powdery mildew,	562.5	750	500	20

	Rust				
Carbendazim 1.92% + Mancozeb 10.08% GR					
Paddy (Rice)	Blast, sheath blight	240+1260	12.5	Broadcasting	46
Carbendazim 12%+ Mancozeb 63% WP					
Groundnut	Leaf spot	375gm	500gm	500lt.	72
Paddy (Rice)	Blast	563gm	750gm	750lt.	57
Potato	Early blight , late blight , black scruff	1312.5	1750	500	47
Tea	Blister blight , grey blight , red rust , die-back , black rot	937.5	1250	250-500	7
Grape	Downey mildew, powdery mildew, anthracnose	0.11%	0.15%	As required depending on crop canopy	7
Mango	Powdery mildew and anthracnose	0.11%	0.15%	As required depending on crop canopy	7
Chilli	Leaf Spot, Fruit rot, and Powdery mildew	563	750	500	3
Maize	Downy mildew and Leaf blight	120+630	1000	500	37
Apple	Fruit scab & Powdery mildew	0.19%	0.25	As required depending upon crop canopy	20
Groundnut (Seed Treatment)	Tikka leaf spot, Collar rot and dry root rot	1.88	2.5	-	Seed treatment
Carbendazim 25%+ Mancozeb 50% WS					
Groundnut	Collar rot, Dry root rot, Tikka leaf spot	(7.5+15.0) to (8.75+17.5) (for	30-35/10 kg	0.1	

		10 kg seed)	seed		
Potato	Late blight, Black scurf	(1.5 + 3.0) to (1.75 + 3.5) (for 10 kg seed)	6 – 7/10 kg seed	2	
Paddy (Rice)	Brown Spot, Blast , Sheath Blight	(7.5+15) to (8.75+17.5)	30-35	0.1	
Wheat	Loose smut	(7.5+15) to (8.75+17.5)	30-35	0.1	

Carbendazim 25 % + Flusilazole 12.5% SE

Paddy (Rice)	Sheath blight	300-360	800-960	500	54
Groundnut	Stem rot, Early leaf spot, Late leaf spot	240-300	640-800	500	72
Chilli	Powdery mildew, Fruit rot, Die-Back	375	1000	375-500	05
Apple	Alternaria blotch and Premature leaf fall	0.03%	0.08%	650-1000	09

Carboxin 17.5% + Thiram 17.5% FF

Wheat	Loose smut	8.75 to 10.5 gm	25 to 30 gm	100 ml	Seed treatment
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Carboxin 37.5% + Thiram 37.5% WS

Wheat	Loose smut and other seed borne and early soil borne diseases	2.25gm/Kg seed	3.0 gm/Kg seed	-	About 3 months
Soybean	Collar rot, Charcoal rot and other seedling diseases	2.25gm/Kg seed	3.0 gm/Kg seed	-	About 3 months
Cotton	Root rot, Bacterial blight	2.5gm/Kg seed	3.5gm/Kg seed	-	About 3 months
Groundnut	Collar rot, Seed rot, Root rot, Stem rot	2.25gm/Kg seed	3.0gm/Kg seed	-	About 3 months
Pigeon pea	Seed rot, Root rot, Stem rot, Fusarium wilt	3gm/Kg seed	4.0gm/Kg seed	-	About 3 months
Potato	Black scurf	1.87gm/Kg seed	2.5gm/Kg seed	-	About 3 months

Chlorothalonil 40.0% w/w + Difenoconazole 4.0 w/w SC					
Tomato	Early blight, Late blight	440 [^] (400+40)	1000	500	7
Chilli	Powdery mildew, Anthracnose, Fruit rot	440 [^] (400+40)	1000	500	7
^ Calculated as 550 (500=50) gm a.i./ha on w/v basis					
Copper Sulphate 47.15% + Mancozeb 30% WDG					
Grape	Anthracnose, Powdery Mildew & Downy mildew	2357.5+1500	6000	750-1000 Depending on crop canopy	10
Cymoxanil 8%+ Mancozeb 64% WP					
Grapes	Downy mildew	1080-1440 gm	1500–2000 gm	500-1000	10 days
Potato	Late blight	1080 gm	1500 gm	500-750	10 days
Tomato	Late blight	1080 gm	1500 gm	500-750	10days
Cucumber	Downy mildew	1080 gm	1500 gm	500-600	10days
Citrus	Gemmossis (Foot Rot) (<i>Phytophthora palmivora</i>)	180 g/100L of water + 18 g/l of water of linseed oil	250 g/100L of water + 25 g/l of water of linseed oil	10 l/tree;50 ml (linseed oil) tree	82 days
Dimethomorph 12% + Pyraclostrobin 6.7% WG					
Grape	Downy mildew	280.5	1500	750-1000	34
Cucumber	Downy mildew	280.5	1500	500	10
Potato	Late blight	183.75	1250	500	26
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
Gherkin	Downy mildew	210	500	500-750	3
Fenamidone 4.44% + Fosetyl-AL 66.7% WDG					
Grape	Downy mildew	88.8+ 1334 - 111.0+ 1667.5 gm	2000-2500 gm	500-750 lt.	90 days
Fenamidone 10% + Mancozeb 50% WG					
Potato	Late blight	125+625- 150+750gm	1250-1500 gm	500 lt.	30
Grapes	Downy mildew	150+750 gm	1500 gm	500-750	85

Gherkin	Downy mildew	150+750 gm	1500 gm	375-500	5
Flubendiamide 3.5% + Hexaconazole 5% WG					
Paddy (Rice)	Sheath blight, Sheath rot	Flubendiamide- 35 & Hexaconazole- 50	1000	500	30
Fluopicolide 4.44% + Fosetyl aluminium 66.67% WG					
Grape	Downy mildew	(99.9 + 1500) to (111+ 1667)	2.25-2.5	750 ltr.	32
Fluopyram 17.7% w/w + Tebuconazole 17.7% w/w SC					
Grape	Powdery mildew and Anthraconase	Fluopyram112.5 +Tebconazole112.5	562.5	750-1000	10
Chilli	Powdery mildew and Anthracnose	Fluopyram100 +Tebconazole 100	500	500	5
Rice (Paddy)	False smut, Dirty panicle	Fluopyram110 +Tebconazole 110	550 g/ha	500	22
Fluxapyroxad 75 g/l + Difenoconazole 50 g/l SC					
Grape	Powdery mildew	100	800	1000	32
Apple	Scab and Powdery mildew	125	1000	2500	33
Fluxapyroxad 62.5 g/l + Epoxiconazole 62.5 g/L EC					
Rice (Paddy)	Sheath blight	78.12-93.75	625-750	500	33
Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC					
Grape	Powdery Mildew	100	200	1000	10
Apple	Premature leaf fall & Alternaria leaf spot	187.5	15 ml formulation/ 100 lit water	2500	29
Mango	Powdery mildew	75-100	150-200	1000	38
Cucumber	Powdery mildew	100-125	200-250	500	10

Chilli	Powdery mildew, Anthracnose	100-125	200-250	500	7
Tomato	Early blight, Septoria leaf spot	100-125	200-250	500	10
Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC					
Cotton	Alternaria leaf	150	300	500	27
Groundnut	Tikka	150	300	500	20
Soybean	Frog eye leaf spot	150	300	500	45
Fluxapyroxad 250 g/l + Pyraclostrobin 250 g/l SC					
Grapes	Powdery mildew	100	200	1000	10
Hexaconazole 4% + Carbendazim 16% SC					
Paddy (Rice)	Sheath blight, and Blast	(30+120)	750	400 - 500	40
Hexaconazole 5.00% + Validamycin 2.50% SC					
Paddy (Rice)	Blast & Sheath blight	50+25	1000	500	22
Hexaconazole 4% + Zineb 68% WP					
Paddy (Rice)	Sheath Blight, Brown Spot, Blast , Grain discoloration	720-900	1000-1250	500	34
Tea	Black Rot , Grey blight, Blister Blight	25+425 gm	625	250-500	7
Apple	Scab, Premature leaf fall, Alternaria leaf spot/blight, Powdery mildew, Core rot	200+3400	0.25% or 25 gm/10 lit. water	10 litre/tree	30
Imidacloprid 18.5% + Hexaconazole 1.5% FS					

Groundnut	Collar rot, Stem rot, Tikka leaf spot, Rust	37:3	200	NA	This is used as seed dresser
Wheat	Smut, Rust, Termites, Aphids	37:3	200	NA	This is used as seed dresser.
Iprodione 25% + Carbendazim 25% WP					
Rice (Paddy)	Sheath blight, Blast	250 gm	500 gm	500 lt.	30
Kasugamycin 5% + copper oxychloride 45% WP					
Grapes	Anthracnose, Bacterial leaf spot	375	750	400 – 1000	37 days
Rice (Paddy)	Leaf blast, Neck blast	350	700	375	26 days
Kresoxim-methyl 40% + Hexaconazole 8% WG					
Rice (Paddy)	Sheath blight, Leaf blast, Neck blast	Kresoxim-methyl- 200 & Hexaconazole - 40	500	500	22
Kresoxim-methyl 15% + Chlorothalonil 56% WG					
Chilli	Powdery mildew, Leaf spot, Anthracnose	Kresoxim-methyl- 150 & Chlorothalonil- 560	1000	500	5
Potato	Early blight and Late blight	Kresoxim-methyl- 150 & Chlorothalonil- 560	1000	500	23
Mancozeb 63% + Carbendazim 12% WS					
Groundnut	Tikka leaf spot, collar rot, dry root rot	1.88	2.5	----	----
Mancozeb 40% + Azoxystrobin 7% OS					
Tomato	Early Blight & light blight	600g+105g	1500 g	500 L	5
Metalaxyl M 4% + Mancozeb 64% WP					
Grapes	Downy mildew	0.17%	0.25%	500-1000 lt.	8
Potato	Late blight	0.17% or	0.25% or	500-1000 lt.	24

		1700 gm	2500 gm		
Black pepper	Phytophthora foot rot	0.17% or 1700 gm	0.25% or 2500 gm	2 litre as foliar spray or 3 litre as soil drench	21
Mustard	Downy mildew	0.17% or 1700 gm	0.25% or 2500 gm	1000lt.	60
Metalaxyl M 3.3% + Chlorothalonil 33.1% SC					
Potato	Late blight	0.073%	0.2%	500	34
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%	1000 lt.	Not less than 7 weeks
	Leaf blight/ Black Shank (Soil drench at sowing and spray at 30days after sowing)	1440 g or 0.14%	2000 g or 0.2%	1000 lt.	Not less than 7 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 0.25%	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%	2lt./vine (spraying) 5lt./vine (soil drenching)	Not less than 21 weeks
Pearl millet	Downy mildew	1440 gm or 0.28%	2000 gm or 0.4%	500lt.	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
Chilli	Anthracnose	900-1050	1500-1750	5	5
Onion	Purple blotch	900-1050	1500-1750	16	16
Cotton	Alternaria leaf spot	900-1050	1500-1750	45	45

Apple	Premature leaf fall disease & Alternaria leaf spot and blight	1750g/ha	100g/100L	1750	12
Pomegranate	Fruit spot	900-1050	1500-1750	500	67
Black gram	Leaf spot disease	900-1050	1500-1750	500	32
Cumin	Alternaria blight & Powdery mildew	900-1050	1500-1750	500	20
Greengram	Cercospora leaf spot	900-1050	1500-1750	500	18
Groundnut	Tikka disease	900-1050	1500-1750	500	42
Banana	Sigatoka leaf spot disease	900-1050	1500-1750	500	85
Cucumber	Downy mildew disease	900-1050	1500-1750	500	5
Bitter gourd	Downy mildew disease	900-1050	1500-1750	500	5

Penflufen 13.28% w/w + Trifloxystrobin 13.28% w/w FS

Groundnut	Seed and Seedling rot disease	12.32+12.32-15.4+15.4	80 – 100		
Soybean	Seed and Seedling rot disease	12.32+12.32-15.4+15.4	80 – 100		

Picoxystrobin 7.05% + Propiconazole 11.7% SC

Paddy (Rice)	Sheath blight, (<i>Rhizoctonia solani</i>) False smut, (<i>Ustilaginoides virens</i>) Dirty Panicle	200	1000	500	24
Wheat	Yellow Rust (<i>Puccinia striiformis</i> sp.)	200	1000	500	52

	<i>tritici)</i>				
Picoxystrobin 6.78% + Tricyclazole 20.33 %w/w SC					
Paddy (Rice)	Leaf Blast & Neck Blast	300	1000	500	29
Chilli	Anthracnose, Wet rot, Powdery mildew	300	1000	500	3
Prochloraz 24.4% + Tebuconazole 12.1% w/w EW					
Chilli	Fruit rot, Die-back & Powdery mildew	267+133	1000	500	5
Propiconazole 13.9% + Difenoconazole 13.9% EC					
Paddy	Sheath blight, dirty panicle	0.02% - 0.03% (0.07-0.1%) 0.7-1.0 ml/L		500	46
Propiconazole 10.7% w/w + Tricyclazole 34.2% w/w SE					
Paddy (Rice)	Sheath blight, Blast	262.5 to 393.75	500-700	500	46
Pyraclostrobin 133 g/l + Epoxiconazole 50g/l SE					
Groundnut	Tikka	114.37-137.25	625-700	500	21
Soybean	Cercospora leaf spot	137.25	750	500	27
Coffee	Rust	137.25	750	750	37
Wheat	Yellow rust	137.25	750	500	47
Cumin	Alternaria blight	137.25	750	500	22
Maize	Leaf blight	137.25	750	500	48
Banana	Sigatoka leaf spot	137.25	750	500	24
Tebuconazole 6.7% + Captan 26.9% w/w SC					
Chilli	Powdery mildew and Anthracnose	80+320	1000	500	5

Apple	Powdery mildew, Alternaria leaf spot/blight, Scab	124+496 0.02% + 0.08%	1550 0.25% or 2.5ml/l of water	10 L/tree	10
Tebuconazole 10% + Sulphur 65% WG					
Chilli	Powdery mildew & Fruit rot	937.50(125+812.5)	1250	500	5
Soybean	Leaf spot & Pod blight	937.50(125+812.5)	1250	500	26
Tebuconazole 50% + Trifloxystrobin 25% WG					
Rice (Paddy)	Sheath blight, Leaf, Neck Blast, Glume discoloration (dirty panicle)	100 + 50	200	375-500	21
Tomato	Early blight	175+87.5	350	500	5
Grapes	Powdery mlidew	87.5+43.75	175	1000	34
chilli	Powdery mildew, Anthracnose, Alternaria leaf spot	125+62.5	250	500	5
wheat	Yellow rust, powdery mildew	150+75	300	300-500	40
Mango	powdery mildew, Anthracnose	0.056% --0.075%	0.075%-- 0.1%(75— 100g/100lit water)	Spray fluid as required depending on size of tree	15
Thiophanate methyl 450 g/l + Pyraclostrobin 50 g/l FS					
Okra	Post emergent damping off	15	30	500	NA
Soybean	Seedling rot	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA
Groundnut	Stem rot	10-12.5	20-25	Sufficient to coat the seeds uniformly	NA

Potato	Black scurf	10	20	Sufficient to coat the seeds uniformly	NA
Tricyclazole 20.4% w/w + Azoxystrobin 6.8% w/w SC					
Rice (Paddy)	Blast, False smut, Sheath blight and Grain discoloration (Dirty Panicle)	300 (225+75)	1000	500	10
Tricyclazole 45% + Hexaconazole 10% WG					
Paddy (Rice)	Blast and Sheath blight	225+50	500	500	23
Tricyclazole 18.0% w/w + Tebuconazole 14.4% w/w SC					
Rice (Paddy)	Sheath blight, Blast, false smut and grain Discoloration	360 (200+160)	1000 ml/ha	---	44
Triticonazole 80 g/l + Pyraclostrobin 40 g/l (w/v) FS					
Wheat	Loose smut	0.12	1.0	Sufficient to coat the seeds uniformly	NA

* 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.
