

Diseases

Diseases	Application	Fungicides	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)
Collar rot	Seed treatment	Thiram 75 WS	5 g/kg seed	7-10
		Mancozeb 40 + Tebuconazole 1 WS	2-2.5 g/kg seed	--
Collar rot and Stem rot		Tebuconazole 5.4 FS	0.4 ml/kg seed	--
		Imidacloprid 18.5 + Hexaconazole 1.5 FS	2 ml/kg seed	--
Collar rot, Stem rot and Root rot		Pyraclostrobin 3.5 + Thiram 15 + Clothianidin 22.5 FS	7 ml/kg seed	--
		Tebuconazole 2 DS	1-1.25 g/kg seed	--
Collar rot and Dry root rot		Carboxin 37.5 + Thiram 37.5 WS	3 g/kg seed	--
		Prochloraz 5.7 + Tebuconazole 1.4 ES	0.3 ml/kg seed	--
Seed and Seedling rot		Carbendazim 12 + Mancozeb 63 WS	2.5 g/kg seed	--
		Carbendazim 25 + Mancozeb 50 WS	3-3.5 g/kg seed	--
Leaf Spot	Foliar Spray	Penflufen 13.28 + Trifloxystrobin 13.28 FS	1 ml/kg seed	--
Leaf Spot and Rust		Carbendazim 12 + Mancozeb 63 WP	10 g	72
		Difenoconazole 25 EC	10 ml	34
Tikka		Carbendazim 50 WP	10 g	--
		Hexaconazole 5 EC	30 ml	30
		Metiram 70 WG	40 g	16
		Pyraclostrobin 20 WG	10 g	29
		Sulphur 40 SC	75 ml	--
		Sulphur 80 WP	50 g	--
		Tebuconazole 38.39 SC	10 ml	32
Thiophanate methyl 41.7 SC	20 ml	27		

1

Diseases	Application	Fungicides	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)
Tikka	Foliar Spray	Fluxapyroxad 167 + Pyraclostrobin 333 SC	6 ml	25
		Mancozeb 50 + Thiophanate methyl 25 WG	30 g	24
		Metiram 55 + Pyraclostrobin 5 WG	30 g	42
		Pyraclostrobin 133 + Epoxiconazole 50 SE	14 ml	21
		Tebuconazole 10 + Sulphur 65 WG	25 g	31
		Dusting Powder	Sulphur 85 DP	15-20 kg/ha
Tikka and Rust	Foliar Spray	Bitertanol 25 WP	20 g	30
		Chlorothalonil 75 WP	15-20 g	14
		Hexaconazole 75 WG	1.33 g	31
		Mancozeb 75 WP	26 g	--
		Propiconazole 25 EC	6.67 ml	15
		Tebuconazole 25 WG	10 g	22
		Tebuconazole 25.9 EC	10 ml	49
		Azoxystrobin 18.2 + Difenoconazole 11.4 SC	10 ml	46
		Chlorothalonil 40.0 + Difenoconazole 4.0 SC	20 ml	47
		Flubendamide 3.5 + Hexaconazole 5 WG	30 g	31
		Mefentrifluconazole 133 + Fluxapyroxad 89 + Pyraclostrobin 178 SC	12.5 ml	37
		Mefentrifluconazole 200+ Pyraclostrobin 200 SC	10 ml	12
		Prochloraz 34.8 + Propiconazole 7.8 EC	15 ml	19
		Pydiflumetofen 6.89 + Difenoconazole 11.49 SC	6 ml	47
Stem rot and Tikka	Foliar Spray	Carbendazim 25 + Flusilazole 12.5 SE	16 ml	72

2

Insect-Pests

Insect Pests	Application	Insecticides	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)
Pod borer	Soil incorporation	Carbofuran 3 CG	50.0 kg/ha	--
White grub			33.3 kg/ha	--
Thrips and Leaf hoppers		Quinalphos 1.50 DP	23.3 kg/ha	30
			25.0 kg/ha	30
Red hairy caterpillar	Soil drenching	Thiamethoxam 1.2 GR	10.0 kg/ha	53
White grub and Termite		Thiamethoxam 0.4 + Bifenthrin 0.8 GR	12.0 kg/ha	105
		Thiamethoxam 0.9 + Fipronil 0.2 GR	12.0-15.0 kg/ha	48
White grub	Soil drenching	Chlorpyrifos 20 EC	10 ml	--
		Clothianidin 50 WDG	2.5 g	62
		Fipronil 40 + Imidacloprid 40 WG	3 g	106
Termite	Seed treatment	Thiamethoxam 75 SG	2.5 g	57
Termite		Imidacloprid 48 FS	2 ml/kg seed	--
Aphids, Thrips and Leaf hoppers	Seed treatment	Thiamethoxam 30 FS	3-5 ml/kg seed	--
		Thiamethoxam 30 WS	3-5 ml/kg seed	--
Leaf hoppers, Termite, Thrips and White grub	Seed treatment	Imidacloprid 18.50 + Hexaconazole 1.50 FS	2 ml/kg seed	--

3

Insect Pests	Application	Insecticides	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)	
Aphids, Leaf hoppers, Termite and White grub	Seed treatment	Pyraclostrobin 3.5 + Thiram 15.0 + Clothianidin 22.5 FS	7 ml/kg seed	--	
Aphids, Thrips and White grub	Foliar spray	Bifenthrin 8 + Clothianidin 10 SC	10 ml	83	
Aphids and Root grub		Chlorpyrifos 20 EC	10 ml	--	
		Chlorantraniliprole 18.5 SC	3 ml	28	
Tobacco caterpillar		Flubendiamide 20 WG	6 g	31	
		Quinalphos 20 AF	18 ml	30	
		Flubendiamide 3.50 + Hexaconazole 5 WG	30 g	31	
Tobacco caterpillar and Leaf miners		Chlorantraniliprole 47.85 SC	1.0 ml	34	
		Novaluron 5.25 + Indoxacarb 4.5 SC	17.5 ml	34	
Tobacco caterpillar and Gram pod borer					

4

Insect Pests	Application	Insecticides	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)
Tobacco caterpillar, Gram pod borer and Leaf miners	Foliar spray	Methoxyfenozide 21.8 SC	17.5 ml	26
		Methoxyfenozide 20 + Chlorantraniliprole 5 SC	10 ml	27
Deltamethrin 2.8 EC		12.5 ml	3	
Thiamethoxam 12.6 + Lambda-Cyhalothrin 9.5 ZC		2.5 ml	28	
Leaf miners				
Leaf hoppers and Defoliator pests				
Leaf miners, Leaf feeders, Thrips and Leaf hoppers	Foliar spray	Isocycloseram 9.2 DC	10 ml	48
Leaf miners, Leaf feeders and Thrips		Chlorantraniliprole 9.30 + Lambda-cyhalothrin 4.60 ZC	4 ml	20
Thrips, Leaf hoppers and Leaf miners		Lambda-cyhalothrin 5 EC	6 ml	10
		Quinalphos 25 EC	10 ml	30
Aphids and Leaf hoppers		Imidacloprid 17.8 SL	5 ml	40
Aphids and Leaf miners		Oxydemeton-methyl 25 EC	10 ml	--

5

Weeds				
Weeds	Application	Weedicide/Herbicide	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)
Narrow leaf weeds, Broad leaf weeds, Sedges	Pre-emergence	Diclosulam 84 WDG	0.65 g	77
		Flumioxazin 50 SC	5 ml	92
		Diclosulam 0.9 + Pendimethalin 35 SE	50 ml	102
Grasses	Post-emergence	Fenoxaprop-p-ethyl 9.3 EC	23.33 ml	89
Narrow leaf weeds		Propaquizafop 10 EC	12.5 ml	97
		Quizalofop-Ethyl 5 EC	20 ml	89
Narrow leaf weeds and Broad leaf weeds		Fluazifop-p-butyl 13.4 EC	25 ml	59
		Imazethapyr 10 SL	26 ml + MSO adjuvant at 2 ml/L of water	102
		Pendimethalin 38.7 CS	40 ml	103
		Imazethapyr 35 + Imazamox 35 WG	2.29 g + MSO Adjuvant @ 2ml/L of water	83
		Sodium Acifluorfen 16.5 + Clodinafop Propargyl 8 EC	20 ml	54
		Fluazifop-p-butyl 11.1 + Fomesafen 11.1 SL	20 ml	82
Narrow leaf weeds, Broad leaf weeds, Sedges		Fomesafen 12.5 + Quizalofopethyl 4.68 EC	26.67 ml	96
		Metamifop 8 + Imazethapyr 4 + Imazamox 3 ME	20 ml + Ammonium sulphate @750 gm/ha	83

6

Weeds	Application	Weedicide/Herbicide	Recommended Dose (Per 10 Liter Water)	*PHI/ WP (Days)
Monocot weeds and Broad leaf weeds	Post-emergence	Propaquizafop 2.5 + Imazethapyr 3.75 ME	40 ml	97
Broad leaf weeds, Sedges and Grasses		Quizalofopethyl 7.5 + Imazethapyr 15 EC	8.75 ml	90

***Pre-Harvest Interval (PHI) / Waiting Period (WP) :** It is the minimum time that must pass between the last pesticide application and the harvesting of the crop to ensure safe residue levels.

Safety Precautions for Pesticide Application in Groundnut Cultivation

- Apply pesticides only at the recommended dose and dilution.
- Avoid use of spurious pesticides.
- Avoid spraying during hot sunny periods and against the direction of wind.
- Do not spray just before or immediately after rainfall.
- Do not use emulsifiable concentrate (EC) formulations with battery-operated ULV sprayers.
- Use separate sprayers for weedicides and insecticides/fungicides.
- Thoroughly wash sprayers, buckets and equipment with soap water after spraying.
- Do not reuse pesticides containers or mixing utensils for domestic purposes.
- Restrict entry of workers and animals into the field immediately after spraying.

Source: Central Insecticide Board & Registration, Faridabad-121 001 (September-2025) (<https://www.pqs.gov.in/en/divisions/cib-rc/major-uses-of-pesticides>)

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7

LABEL CLAIMED PESTICIDES FOR CROP PROTECTION IN GROUNDNUT

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