

PESTICIDES RECOMMENDED FOR THE CONTROL OF VARIOUS DISEASES AND INSECT PESTS OF TABLE GRAPES FOR EXPORT TO THE EUROPEAN UNION IN 2008-2009



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S. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	EU (mg/kg)	MRL	Pre-harvest Interval (PHI in days)
I	Downy Mildew					
1.	Mancozeb 75 WP	NS	1.50-2.00 g/L	5.0		35 (Avoid using after fruit set)
2.	Ziram 80 WP, 27SC	NS	1.50-2.00 g/L, 3.5 mL/L	0.10		66 (Avoid using after fruit set)
3.	Propineb 70 WP	NS	3.00 g/L	1.0		40 (Avoid using after fruit set)
4.	COC 50 WP	NS	2.50 g/L, 2.40g/L	50.0		42 (Avoid using after fruit set)
5	Copper hydroxide 77 WP	NS	2.00 g/L	50.0		42 (Avoid using after fruit set)
6.	Bordeaux Mixture (Copper Sulphate+ Lime (ISI mark chemicals preferred))	NS	Pre-sprouting 1.00 % Post-sprouting 0.50%	50.0		42 (Avoid using after fruit set)
7.	Captan 50 WP, 75 WP	NS	2.50 g/L, 1.67 g/L	0.02		60
8	Chlorothalonil 75 WP	NS	2.00 g / L	1.0		60
9.	Fosetyl AL 80 WP	S	1.40-2.00 g/L	100.0		30
10.	Metalaxyl + Mancozeb 8+64 WP	S+NS	2.50 g/L	2.0 + 5.0		66
10a.	Metalaxyl M + Mancozeb 4+64 WP	S+NS	2.50 g/L	2.0 + 5.0		66
11.	Cymoxanil + Mancozeb 8+64 WP	S+NS	2.00 g/L	0.2 + 5.0		66
12	Dimethomorph 50 WP + Mancozeb 75WP as tank mixture	S + NS	0.50 to 0.75 g/L + 2.00g/L	3.0 + 5.0		66

¹ Recommendation of pesticides for the management of various insect pests and diseases along with their dose, PHI and MRL values are of advisory nature for the good viticulture practices and therefore, not covered under any legal scrutiny.

S. No.	Pesticide recommended for major disease and pest				
13	Fenamidone + Mancozeb 10+50 WG	S + NS	2.5 to 3 g/L	0.5 + 5.0	66
14.	Azoxystrobin 23 SC	S	200.00 mL /Acre	2.0	7
II	Powdery Mildew				
15.	Penconazole 10 EC	S	0.50 mL/L	0.2	50
16.	Triadimefon 25 WP	S	0.50-1.00 g/L	2.0	45
17.	Myclobutanil 10 WP	S	0.40 g/L	1.0	30
18.	Flusilazole 40 EC	S	25.00 mL / 200.00L	0.05	50
19.	Fenarimol 10 EC	S	0.40 mL / L	0.3	30
20.	Difenoconazole 25EC	S	0.50 mL / L	0.5	45
21.	Dinocap 48 EC	NS	0.30 - 0.35 mL/L	0.05	50 (avoid when tender shoots are present in canopy)
22.	Sulfur 40 SC, 55.16 SC, 80 WP, 80 WDG, 85 WP	NS	3.00 mL, 3.00mL, 2.50 g, 1.87-2.50 g, 1.50-2.00 g per L respectively	50.0	15
23.	Potassium carbonate bi-	NS	5.00 to 10.00 g / L	--	--
24.	Azadirachtin 0.03% (Tricure)	Neem based EC formulation	4.00 mL/L	1.0	2
14a.	Azoxystrobin 23 SC	S	200.00 mL / Acre	2.0	7
III	Anthracnose				
2a.	Ziram 80 WP, 27SC	NS	1.50-2.00 g/L, 3.50 mL/L	0.10	66
3a	Propineb 70 WP	NS	3.00 g/L	1.0	40
4a.	COC 50 WP	NS	2.50 g/L, 2.40g/L	50.0	42 (Avoid using after fruit set)
5a.	Copper hydroxide 77 WP	NS	2.00 g/L	50.0	42 (Avoid using after fruit set)
25.	Iprobenphos (Kitazine) 48 EC	S	2.00 mL/L	0.01	50
26.	Carbendazim 50 WP, 46.27 SC	S	1.00 g/L, 1.00 mL/L	0.3	50
IV	Post harvest berry rots				
27.	Iprodione 50 WP	NS	2.00 g / L	10.0	7
V	Flea beetles				
28.	Imidacloprid 200 SL	S	0.30 mL/L	1.0	60

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29.	Thiamethoxam 25 WG	S	0.25 g/L	0.5	40
30.	Lambda-cyhalothrin 05 EC/CS	NS	0.50 mL/L	0.2	30
31.	Clothianidin 50 WDG	S	0.12 g/L	0.60	40
VI	Thrips and Jassids				
29a.	Thiamethoxam 25 WG	S	0.25 g/L	0.5	40
32.	Spinosad 45 SC	NS	0.25 mL/L	0.5	28
33.	Emamectin benzoate 05 SG	NS	0.22 g/mL/L	0.01	25
34.	Dimethoate 30 EC	S	1.00 mL/L	0.02	100 (Should not be used after blossom)
24a.	Azadirachtin 1% and 5% (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulation	1% & 5% @ 2.00 & 1.00 mL/L	1.0	3
28a.	Imidacloprid 200 SL	S	0.30 mL/L	1.0	60
30a.	Lambda-cyhalothrin 05 EC/CS	NS	0.50 mL/L	0.2	30
31a.	Clothianidin 50 % WDG	S	0.12 g/L	0.60	40
35.	Fipronil 5 SC	S	0.80 mL/L	0.005	45
	Fipronil 80 WG		0.05 g/L		
VII	Mealy bugs				
36.	Chlorpyrifos 20 EC	NS	2.00 mL/L	0.5	40
37.	Buprofezin 25 SC	NS	1.25 mL/L	1.0	40
28b.	Imidacloprid 200 SL	S	1.50 mL/L/vine as soil drench	1.0	60
28c.	Imidacloprid 70 WG	S	0.45 g/L/vine as soil drench	1.0	60
24b.	Azadirachtin 1% and 5% (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulations	1% & 5% @ 2.00 & 1.00 mL/L	1.0	3
VIII	Caterpillars				

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36a.	Chlorpyrifos 20 EC	NS	2.00 mL/L	0.5	40
32a.	Spinosad 45 SC	NS	0.25 mL/L	0.5	28
30b.	Lambda-cyhalothrin 05 EC/CS	NS	0.50 mL/L	0.2	30
24c.	Azadirachtin 1% and 5%	Neem based EC formulations	1% & 5% @ 2.00 & 1.00 mL/L	1.0	3
IX Mites					
38.	Abamectin 1.9 EC	NS	0.50 mL/L	0.01	7
39.	Fenpyroximate 5 SC	S	1.5 mL/L	0.30	45
24d.	Azadirachtin 1% and 5 % (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulations	1% & 5% @ 2.00 & 1.00 mL/L	1.0	3

NS= Non systemic, S= Systemic, -- = MRL not applicable

Note

- All the doses mentioned above are for high volume sprayers, where normal spray volume is 1000 L/ha. Spray volume can however be changed as per the efficiency of sprayers used. However, the amount of each pesticide (active ingredient) recommended for 1 ha on the basis of 1000 L spray solution should be strictly maintained to minimize pesticide residues.
- Recommended PHI will be valid only if maximum 2 sprays are applied per fruiting season at 7-15 days interval at recommended doses except for Flusilazole. The PHI of flusilazole pertains to one application by foliar spray only.