

Dear Sirs/Madam,

This is further to our e-mail of 29th December, 2006 issuing Amendment-1 in RMP Grape-2007. In this connection the following amendments are made in the residue monitoring document for the 2007 grape season :

1. Para 1.6 of the main document : Bulgaria and Romania are added as new member states of the European Union.
2. Annexure-7 is further revised with the revised MRL values for the 2007 grape season. The revised annexure is enclosed.

You are requested to kindly take note of the above amendments.

With regards,

S. Dave

Director - APEDA

**PESTICIDES RECOMMENDED FOR THE CONTROL OF VARIOUS DISEASES AND
INSECT PESTS BASED ON THE STUDIES AT NRC GRAPES AND AICRP ON
GRAPES OF ICAR (2006-2007)**



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S. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	MRL (mg/kg)				Pre-harvest Interval in Days (PHI)
				EU	UK	NL	Germany	
I	Downy Mildew							
1.	Mancozeb 75 WP, (Indofil M-45, Dithane M-45)	NS	1.5-2.0 g/L	2.00	2.00	3.00	2.00	35
2.	Ziram 80 WP (Cuman L)	NS	1.5-2.0 g/L, 3.5 ml/L	2.00	#	3.00	2.00	66
3.	Propineb 70 WP (Antracol)	NS	3 g/L	2.00	2.00	3.00	2.00	40
4.	COC 50 WP (Blitox, Fytolan, Blue Copper)	NS	2.5 g/L, 2.4g/L	#	#	Cu = 20.00	40.00	42 (Avoid using after fruit set)
5	Copper hydroxide 77 WP (Kocide 101)	NS	2.0 g/L	#	#	Cu = 20.00	40.00	42 (Avoid using after fruit set)
6.	Bordeaux Mixture (Copper sulphate + Lime ISI mark chemicals preferred)	NS	Pre-sprouting 1.0 % Post-sprouting 0.5%	#	#	Cu = 20.00	40.00	42 (Avoid using after fruit set)
7.	Captan 50 WP, 75 WP (Captaf)	NS	2.5 g/L, 1.67 g/L	0.02	0.02	0.02	0.02	60
8	Chlorothalonil 75 WP (Kavach)	NS	2.0 g / L	1.00	1.00	1.00	1.00	60
9.	Fosetyl AL 80 WP (Aliette)	S	1.4-2 g/L	#	#	0.20	5.00	30
10.	Metalaxyl + Mancozeb 8+64 WP (Ridomil MZ, Tata Master)	S+NS	2.5 g/L	2.00+ Mancozeb 2.00	2.00+ Mancozeb 2.00	2.00+ Mancozeb 3.00	2.00 + Mancozeb 2.00	66
11.	Cymoxanil + Mancozeb 8+64 WP (Curzate M-8)	S+NS	2 g/L	# + Mancozeb 2.00	0.10 + Mancozeb 2.00	0.05 + Mancozeb 3.00	0.20 + Mancozeb 2.00	66
12	Dimethomorph 50 WP + Mancozeb (Acrobat +Mancozeb)	S + NS	0.5 to 0.75 g/L + 2g/L	# + Mancozeb 2.00	# + Mancozeb 2.00	0.05 + Mancozeb 3.00	2.00 + Mancozeb 2.00	66

S. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	MRL (mg/kg)				Pre-harvest Interval in Days (PHI)
				EU	UK	NL	Germany	
13.	Azoxystrobin 23 SC (Amistar)	S	200 ml /Acre	2.00	2.00	2.00	2.00	7
II	<u>Powdery Mildew</u>							
14.	Penconazole 10 EC (Topas)	S	0.5 ml/L	0.20	0.20	0.20	0.20	50
15.	Triadimefon 25 WP (Bayleton)	S	0.5-1.0 g/L	2.00	2.00	2.00	2.00	45
16.	Hexaconazole 5 EC, 5 SC (Contaf)	S	1.0 ml / L or 0.5 ml/L along with 5 g / L potassium bicarbonate	0.10	0.10	0.10	0.10	38
17.	Myclobutanil 10 WP (Systhane)	S	0.4 g/L	1.00	1.00	1.00	1.00	30
18.	Flusilazole** 40 EC (Nustar)	S	25 ml / 200L	#	#	0.05	0.01	50 **
19.	Fenarimol 10 EC (Rubigan)	S	0.4 ml / L	0.30	0.30	0.30	0.30	30
20.	Difenoconazole 25EC (Score)	S	0.5 ml / L	#	#	0.05	0.05	45
21.	Dinocap 48 EC (Karathane)	NS	0.3 - 0.35 ml/L	#	#	0.05	0.50	50
22.	Sulfur 40 SC, 55.16 SC, 80 WP, 80 WDG, 85 WP (Sulfex, Kumulus, Sultaf, Thiovit)	NS	3 ml, 3ml, 2.5 g, 1.87-2.5 g, 1.5-2 g per L respectively	#	#	50.00	50.00	Avoid using after fruit set
23.	Potassium bi-carbonate (Available as Potassium Bicarbonate)	NS	5 to 10 g / L	—	—	—	--	--
24.	Azadirachtin 0.03% (Tricure)	Neem based EC formulation	4 ml/L	--	--	--	-	2
13a.	Azoxystrobin 23 SC (Amistar)	S	200 ml / Acre	2.00	2.00	2.00	2.00	7
III	<u>Anthraco</u>							
2a.	Ziram 80 WP(Cuman L)	NS	1.5-2.0 g/L, 3.5 ml/L	2.00	#	3.00	2.00	66
3a.	Propineb 70 WP (Antracol)	NS	3 g/L	2.00	2.00	3.00	2.00	40
4a.	COC 50 WP (Blitox, Fytolan, Blue Copper)	NS	2.5 g/L, 2.4g/L	#	#	Cu = 20.00	40.00	42 (Avoid using after fruit set)

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				EU	UK	NL	Germany	
5a.	Copper hydroxide 77 WP (Kocide 101)	NS	2.0 g/L	#	#	Cu = 20.00	40.00	42 (Avoid using after fruit set)
25.	Iprobenphos 48 EC (Kitazin)	S	2.0 ml/L	#	#	#	0.01	50
26.	Carbendazim 50 WP, 46.27 SC (Bavistin)	S	1 g/L, 1 ml/L	0.30	0.30	0.30	0.30	50
IV	Post harvest berry rots							
27.	Iprodione 50 WP (Rovral)	NS	2.0 g / L	10.00	10.00	10.00	10.00	7
V	Flea beetles							
28.	Carbaryl 50 WP (Sevin)	NS	2.0 g/L	0.05	0.05	3.00	3.00	42
29.	Imidacloprid 200 SL (Confidor)	S	0.3 ml/L	#	#	1.00	0.05	60
30.	Thiamethoxam 25 WG (Actara)	S	0.25 g/L	#	#	0.05	0.01	40
31.	Lambda-cyhalothrin 05 EC/CS (Karate EC & Karate Zeon CS)	NS	0.50 ml/L	0.20	0.20	0.20	0.20	30
32.	Clothianidin 50 WDG (Dantop)	S	0.12 g/L	#	#	#	0.01	40
VI	Thrips and Jassids							
30a.	Thiamethoxam 25 WG (Actara)	S	0.25 g/L	#	#	0.05	0.01	40
33.	Spinosad 45 SC (Tracer)	NS	0.25 ml/L	#	0.50	0.20	0.20	28
34.	Emamectin benzoate 05 SG (Proclaim)	NS	0.22 g/ml/L	#	#	#	0.01	25
35.	Difenthiuron 50 SC (Polo)	S	0.80 g/ml/L	#	#	#	0.01	45
36.	Dimethoate 30 EC (Rogor)	S	1 ml/L	0.02	0.02	0.02	0.02	100 (Should not be used after blossom)
37.	Endosulfan 35 EC (Thiodan)	NS	2ml/L	0.50	0.50	0.50	0.50	65
24a.	Azadirachtin (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulation	1% & 5% @ 2 & 1ml/L	--	--	--	-	3

S. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	MRL (mg/kg)				Pre-harvest Interval in Days (PHI)
				EU	UK	NL	Germany	
31a.	Lambda-cyhalothrin 05 EC/CS (Karate EC & Karate Zeon CS)	NS	0.50 ml/L	0.20	0.20	0.20	0.20	30
29a.	Imidacloprid 200 SL (Confidor)	S	0.30 ml/L	#	#	1.00	0.05	60
32a.	Clothianidin 50 % WDG (Dantop)	S	0.12 g/L	#	#	#	0.01	40
VII	Mealy bugs							
38.	Chlorpyrifos 20 EC (Dursban)	NS	2.0 ml/L	0.50	0.50	0.50	0.50	40
39.	Malathion 50 EC (Malathion)	NS	2.0 ml/L	0.50	0.50	0.50	0.50	40
40.	Phosalone 35 EC (Zolone)	NS	2.0 ml/L	1.00	1.00	1.00	1.00	40
41.	Methomyl 40 SP (Lannate)	NS	1.0 g/L	0.05	0.05	0.05	0.05	61
42.	Dichlorvos 76 EC (Nuvan)	NS	1.0 ml/L	0.10	0.10	0.10	0.10	15
43.	Cartap Hydrochloride 50 SP (Padan)	S	2.0 g/L	#	#	1.00	0.01	40
44.	Buprofezin 25 SC (Applaud)	NS	1.25 ml/L	#	#	0.05	0.02	30
24b.	Azadirachtin (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulations	1% & 5% @ 2 & 1 ml/L	--	--	--	--	3
VIII	Caterpillars							
40a.	Phosalone 35 EC (Zolone)	NS	2.0 ml/L	1.00	1.00	1.00	1.00	40
38a.	Chlorpyrifos 20 EC (Dursban)	NS	2.0 ml/L	0.50	0.50	0.50	0.50	40
41a.	Methomyl 40 SP (Lannate)	NS	1.0 g/L	0.05	0.05	0.05	0.05	61
33a.	Spinosad 45 SC (Tracer)	NS	0.25 ml/L	#	0.50	0.20	0.20	28
31b.	Lambda-cyhalothrin 05 EC/CS (Karate EC & Karate Zeon CS)	NS	0.50 ml/L	0.20	0.20	0.20	0.20	30
24c.	Azadirachtin (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulations	1% & 5% @ 2 & 1 ml/L	--	--	--	--	3
IX	Mites							

S. No.	Pesticide recommended for major disease and pest	Nature of pesticide	Dose on formulation basis	MRL (mg/kg)				Pre-harvest Interval in Days (PHI)
				EU	UK	NL	Germany	
45.	Dicofol 18.5 EC (Kelthane)	NS	1.0 ml/L	2.00	2.00	2.00	2.00	100
35a.	Difenthiuron 50 SC (Polo)	S	0.8 ml/L	#	#	#	0.01	45
24d.	Azadirachtin (Neemazal T/S 1%, Neemazal F 5%, Econeem plus 1%, Ozoneem Thrishul 1%)	Neem based EC formulations	1% & 5% @ 2 & 1 ml/L	--	--	--	--	3

NS= Non systemic

S= Systemic

= No MRLs given as yet

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 Efficiency of sprayers used.
- After fruit set, all fungicides containing Mancozeb or dithiocarbamates and Sulphur should be avoided.
- Dinocap should not be used when tender shoots are present in canopy.
- Recommended PHI will be valid only if maximum 2 sprays are applied per fruiting season at 7-15 days interval at recommended doses.

****** The PHI of flusilazole pertains to one application by foliar spray only. For export to Germany, the use of pesticides has to be managed very carefully in last 60 days before harvest to ensure the MRL compliance.

“Combination Products” which contains two or more active ingredients as given in the above list can be used. However, the dose of the individual active ingredient should not exceed the recommended dose.