

Date: 9th December, 2020

List of agrochemicals to be monitored for the grape season 2020-2021

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
1.	1-Naphthylacetamide and 1-naphthylacetic acid (sum of 1-naphthylacetamide and 1-naphthylacetic acid and its salts, expressed as 1-naphthylacetic acid)	0.06*
2.	2,4-D (sum of 2,4-D and its esters and its conjugates, expressed as 2,4-D)	0.10
3.	4-Bromo-2-chlorophenol (metabolite of Profenophos)	0.01*
4.	4-Chloro-3-methylphenol	0.01*
5.	4-CPA (4-Chlorophenoxy acetic acid)	0.01*
6.	6-Benzyl adenine	0.01*
7.	Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a)	0.01*
8.	Acephate	0.01*
9.	Acetamiprid (R)	0.50
10.	Afidopyropen	0.01*
11.	Alachlor	0.01*
12.	Aldrin (Aldrin and dieldrin combined expressed as dieldrin)	0.01*
13.	Allethrin and Bioallethrin	0.01*
14.	Ametoctradin	6.00
15.	Ametryn	0.01*
16.	Amisulbrom	0.50
17.	Anilofos	0.01*
18.	Atrazine	0.05*
19.	Azadirachtin	1.00
20.	Azimsulfuron	0.01*
21.	Azoxystrobin	3.00
22.	Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)	0.30
23.	Bendiocarb	0.01*
24.	Benomyl (see carbendazim)	0.30
25.	Bensulfuron-methyl	0.01*
26.	Bifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate) (F)	0.70
27.	Bifenthrin (sum of isomers) (F)	0.30
28.	Bispyribac	0.01*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
29.	Bitertanol (sum of isomers) (F)	0.01*
30.	Boscalid (F) (R) (A)	5.00
31.	Bupirimate	1.50
32.	Buprofezin (F)	0.01*
33.	Butachlor	0.01*
34.	Captafol	0.02*
35.	Captan (Sum of captan and tetrahydrophthalimide (THPI), expressed as captan) (R) (A)	0.03*
36.	Carbaryl (F)	0.01*
37.	Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim) (R)	0.30
38.	Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran) (R)	0.002*
39.	Carboxin (carboxin plus its metabolites carboxin sulfoxide and oxycarboxin (carboxin sulfone), expressed as carboxin)	0.03*
40.	Carfentrazone-ethyl (determined as carfentrazone and expressed as carfentrazone-ethyl)	0.01*
41.	Carpropamid	0.01*
42.	Cartap hydrochloride	0.01*
43.	Chlorantraniliprole	1.00
44.	Chlordane (cis & trans)	0.01*
45.	Chlorfenapyr	0.01*
46.	Chlorfenvinphos	0.01*
47.	Chlorfluazuron	0.01*
48.	Chlorimuron-ethyl	0.01*
49.	Chlormequat (CCC) (sum of chlormequat and its salts, expressed as chlormequat-chloride)	0.05
50.	Chlorothalonil	3.00
51.	Chlorpropham	0.01*
52.	Chlorpyrifos	0.01*
53.	Chlorpyrifos-methyl	0.01*
54.	Chromafenozide	1.50
55.	Cinmethylen	0.01*
56.	Clethodim (sum of Sethoxydim and Clethodim including degradation products calculated as Sethoxydim)	1.00
57.	Clofentezine (R)	0.02*
58.	Clomazone	0.01*
59.	Clothianidin	0.70

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
60.	Coumachlor	0.01*
61.	Coumatetralyl	0.01*
62.	Cyantraniliprole	1.50
63.	Cyazofamid	2.00
64.	Cyenopyrofen	0.01*
65.	Cyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid) (A) (R)	0.20
66.	Cyflumetofen	0.60
67.	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)	0.30
68.	Cyhalofop-butyl	0.02*
69.	Cymoxanil	0.30
70.	Cypermethrin (including other mixtures of constituent isomers, sum of isomers)	0.50
71.	Cyproconazole	0.20
72.	Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam)	0.02*
73.	DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)	0.05*
74.	Deltamethrin (cis-deltamethrin) (F)	0.20
75.	Diafenthuron	0.01*
76.	Diazinon	0.01*
77.	Dichlorvos	0.01*
78.	Diclofop (sum diclofop-methyl and diclofop acid expressed as diclofop-methyl)	0.05*
79.	Diclosulam	0.01*
80.	Dicofol (sum of p,p' and o,p' isomers)	0.02*
81.	Dieldrin (see Aldrin)	0.01*
82.	Difenoconazole	3.00
83.	Diflubenzuron	0.01*
84.	Dimethoate	0.01*
85.	Dimethomorph (sum of isomers)	3.00
86.	Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap) (F)	0.02*
87.	Dinotefuran	0.90
88.	Diquat	0.01*
89.	Dithianon	3.00
90.	Dithiocarbamates (dithiocarbamates expressed as CS2, including maneb, mancozeb, metiram, propineb, thiram and ziram)	5.00

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91.	Diuron	0.01*
92.	Dodine	0.01*
93.	Edifenphos	0.01*
94.	Emamectin benzoate B1a, expressed as emamectin	0.05
95.	Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulphan sulphate expressed as endosulphan)	0.05*
96.	Endrin	0.01*
97.	Epoxiconazole	0.05*
98.	Ethephon	1.00
99.	Ethion	0.01*
100.	Ethiprole	0.01*
101.	Ethofenprox (Etofenprox)	4.00
102.	Ethoxysulfuron	0.01*
103.	Etoxazole	0.50
104.	Etrimfos	0.01*
105.	Famoxadone	2.00
106.	Fenamidone	0.60
107.	Fenarimol	0.30
108.	Fenazaquin	0.20
109.	Fenhexamid (F)	15.00
110.	Fenitrothion	0.01*
111.	Fenobucarb	0.01*
112.	Fenoxaprop-p	0.10*
113.	Fenpropathrin	0.01*
114.	Fenpyroximate (A) (F) (R)	0.30
115.	Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent)	0.01*
116.	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R)	0.30
117.	Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)	0.005*
118.	Flonicamid (sum of flonicamid, TNFG and TNFA expressed as flonicamid) (R)	0.03*
119.	Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)	0.01*
120.	Flubendiamide	2.00
121.	Flucetosulfuron	0.01*
122.	Fluchloralin	0.01*
123.	Fluensulfone	0.01*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
124.	Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent)	0.05*
125.	Flufenoxuron	1.00
126.	Flufenzin	0.02*
127.	Flumioxazine	0.05*
128.	Fluopicolide	2.00
129.	Fluopyram	1.50
130.	Flupyradifurone	0.80
131.	Flusilazole	0.01*
132.	Fluthiacet-methyl	0.01*
133.	Fluxapyroxad	3.00
134.	Fomesafen	0.01*
135.	Forchlorfenuron (CPPU)	0.01*
136.	Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl)	100.00
137.	Glufosinate-ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents)	0.15
138.	Glyphosate	0.50
139.	Halosulfuron methyl	0.01*
140.	Haloxifop (Sum of haloxifop, its esters, salts and conjugates expressed as haloxifop (sum of 0.01the R- and S- isomers at any ratio)) (F) (R)	0.01*
141.	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)	0.01*
142.	Hexachlorocyclohexane (HCH), alpha-isomer (F)	0.01*
143.	Hexachlorocyclohexane (HCH), beta-isomer (F)	0.01*
144.	Hexaconazole	0.01*
145.	Hexazinone	0.01*
146.	Hexythiazox	1.00
147.	Homobrassinolide	0.01*†
148.	Imazamox (Sum of imazamox and its salts, expressed as imazamox)	0.05*
149.	Imazethapyr	0.01*
150.	Imidacloprid	1.00
151.	Indaziflam	0.01*
152.	Indoxacarb (sum of indoxacarb and its R enantiomer) (F)	2.00
153.	Iodosulfuron-methyl (sum of iodosulfuron-methyl and its salts, expressed as iodosulfuron-methyl)	0.01*
154.	Iprobenphos	0.01*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
155.	Iprodione	0.01*
156.	Iprovalicarb	2.00
157.	Isoprothiolane	0.01*
158.	Isoproturon	0.01*
159.	Kasugamycin	0.01*
160.	Kresoxim methyl	1.50
161.	Lambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers) (F)	0.08
162.	Lindane (Gamma-isomer of hexachlorocyclohexane (HCH)) (F)	0.01*
163.	Linuron	0.01*
164.	Lufenuron (any ratio of constituent isomers) (F)	0.01*
165.	Malathion (sum of malathion and malaoxon expressed as malathion)	0.02*
166.	Mandipropamid (any ratio of constituent isomers)	2.00
167.	Matrine & Oxymatrine	0.01*
168.	Mepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)	0.02*
169.	Meptyldinocap (sum of 2,4-DNOPC and 2,4-DNOP expressed as meptyldinocap)	1.00
170.	Metaflumizone (sum of E- and Z- isomers)	0.05*
171.	Metalaxyl and Metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers))	2.00
172.	Metamifop	0.01*
173.	Metamitron	0.10*
174.	Methabenzthiazuron	0.01*
175.	Methamidophos	0.01*
176.	Methomyl	0.01*
177.	Methoxyfenazide	1.00
178.	Metolachlor and S-Metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))	0.05*
179.	Metrafenone	7.00
180.	Metribuzin	0.10*
181.	Milbemectin (sum of milbemycin A4 and milbemycin A3, expressed as milbemectin)	0.02*
182.	Monocrotophos	0.01*
183.	Myclobutanil	1.00
184.	Nereistoxin	0.01*
185.	Nitenpyram	0.01*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
186.	Novaluron	0.01*
187.	Omethoate	0.01*
188.	Orthosulfamuron	0.01*
189.	Oxadiargyl	0.01*
190.	Oxadiazon	0.05*
191.	Oxathiapiprolin	0.70
192.	Oxycarboxin	0.01*
193.	Oxydemeton- methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)	0.01*
194.	Oxyfluorfen	0.10
195.	Paclobutrazol (sum of constituent isomers)	0.01*
196.	Paraquat	0.02*
197.	Parathion - methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion -methyl)	0.01*
198.	Parathion ethyl	0.05*
199.	Penconazole	0.50
200.	Pencycuron	0.05*
201.	Pendimethalin	0.05*
202.	Penoxsulam	0.01*
203.	Permethrin (sum of isomers)	0.05*
204.	Phenthoate	0.01*
205.	Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)	0.01*
206.	Phosalone	0.01*
207.	Phosphamidon	0.01*
208.	Picoxystrobin	0.01*
209.	Pinoxaden	0.02*
210.	Pirimiphos-methyl	0.01*
211.	Pretilachlor	0.01*
212.	Profenophos	0.01*
213.	Propamocarb (sum of propamocarb and its salt expressed as propamocarb)	0.01*
214.	Propanil	0.01*
215.	Propargite	0.01*
216.	Propetamphos	0.01*
217.	Propiconazole (sum of isomers) (F)	0.30
218.	Propineb (expressed as propilendiamine)	1.0
219.	Propoxur	0.05*
220.	Pymetrozine	0.02*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
221.	Pyraclostrobin	1.00
222.	Pyrazosulfuron-ethyl	0.01*
223.	Pyridaben	0.01*
224.	Pyridalyl	0.01*
225.	Pyriproxyfen	0.05*
226.	Pyrithiobac-sodium	0.01*
227.	Pyroxasulfone	0.01*
228.	Quinalphos	0.01*
229.	Simazine	0.20
230.	Spinetoram	0.50
231.	Spinosad (sum of Spinosyn A+D)	0.50
232.	Spirodiclofen	2.00
233.	Spiromesifen	0.02*
234.	Spirotetramat (Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramat (R))	2.00
235.	Sulfentrazone	0.01*
236.	Sulfosulfuron	0.01*
237.	Sulfoxaflor (sum of isomers)	2.00
238.	<i>tau</i> -Fluvalinate	1.00
239.	Tebuconazole	0.50
240.	Tembotrione	0.02*
241.	Temephos	0.01*
242.	Tetraconazole	0.50
243.	Thiabendazole	0.01*
244.	Thiacloprid	0.01*
245.	Thiamethoxam	0.40
246.	Thifluzamide	0.01*
247.	Thiobencarb (4-chlorobenzyl methyl sulfone) (A)	0.01*
248.	Thiocyclam	0.01*
249.	Thiodicarb	0.01*
250.	Thiometon	0.01*
251.	Thiophanate-methyl	0.10*
252.	Tolfenpyrad	0.01*
253.	Topramezone	0.01*
254.	Transfluthrin	0.01*
255.	Triadimefon	0.01*
256.	Triadimenol (any ratio of constituent isomers)	0.30
257.	Triafamone	0.01*

Sr. No.	Chemicals	Harmonized EU-MRL (mg/kg)
258.	Tri-allate	0.10*
259.	Triasulfuron	0.01*
260.	Triazophos	0.01*
261.	Trichlorfon	0.01*
262.	Tricyclazole	0.01*
263.	Tridemorph	0.01*
264.	Trifloxystrobin	3.00
265.	Triflumezopyrim	0.01*
266.	Trifluralin	0.01*
267.	Uracil	1.00†

http://ec.europa.eu/sanco_pesticides/public/index.cfm?event=substance.selection

* Indicates lower limit of analytical determination

† These are natural products. EU-MRL does not exist for these chemicals. Hence, their MRL is set at the LOQ of the method developed and validated at the National Referral Laboratory of the ICAR-NRC for Grapes.