

Provisional Annexure-9**Date: 31st August, 2019****List of agrochemicals to be monitored for the grape season 2019-2020**

| 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-Chloro-3-methylphenol | 0.01* |
| 4. | 4-bromo-2-chlorophenol (metabolite of Profenophos) | 0.01* |
| 5. | 4-CPA (4-Chlorophenoxy acetic acid) | 0.01* |
| 6. | 6-Benzyl adenine | 0.01* |
| 7. | Abamectin (sum of avermectin B1a, avermectinB1b 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. | Atrazine | 0.05* |
| 16. | Azadirachtin | 1.00 |
| 17. | Azoxystrobin | 3.00 |
| 18. | Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers) | 0.30 |
| 19. | Bendiocarb | 0.01* |
| 20. | Benomyl (see carbendazim) | 0.30 |
| 21. | Bifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate) (F) | 0.70 |
| 22. | Bifenthrin (sum of isomers) (F) | 0.30 |
| 23. | Bitertanol (sum of isomers) (F) | 0.01* |
| 24. | Boscalid (F) (R) (A) | 5.00 |
| 25. | Buprofezin (F) | 0.01* |
| 26. | Butachlor | 0.01* |
| 27. | Cadmium | 0.05# |
| 28. | Captafol | 0.02* |
| 29. | Captan (Sum of captan and THPI, expressed as captan) (R) (A) | 0.03* |
| 30. | Carbaryl (F) | 0.01* |
| 31. | Carbendazim (including Benomyl) | 0.30 |
| 32. | Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran) (R) | 0.002* |

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|----------------|--|----------------------------------|
| 33. | Carboxin | 0.03* |
| 34. | Cartap hydrochloride | 0.01* |
| 35. | Chlorantraniliprole | 1.00 |
| 36. | Chlordane (cis & trans) | 0.01* |
| 37. | Chlorfenapyr | 0.01* |
| 38. | Chlorfenvinphos | 0.01* |
| 39. | Chlorfluazuron | 0.01* |
| 40. | Chlormequat (CCC) (sum of chlormequat and its salts, expressed as chlormequat-chloride) | 0.05 |
| 41. | Chlorothalonil | 3.00 |
| 42. | Chlorpropham | 0.01* |
| 43. | Chlorpyrifos | 0.01* |
| 44. | Chlorpyrifos methyl | 1.00 |
| 45. | Clothianidin | 0.70 |
| 46. | Clofentezine (R) | 0.02* |
| 47. | Cyantraniliprole | 1.50 |
| 48. | Cyazofamid | 2.00 |
| 49. | Cyflumetofen | 0.60 |
| 50. | Cyfluthrin (including other mixtures of constituent isomers sum of isomers) | 0.30 |
| 51. | Cymoxanil | 0.30 |
| 52. | Cypermethrin (including other mixtures of constituent isomers sum of isomers) | 0.50 |
| 53. | Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam) | 0.02* |
| 54. | DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT) | 0.05* |
| 55. | Deltamethrin (cis-deltamethrin) (F) | 0.20 |
| 56. | Diafenthiuron | 0.01* |
| 57. | Diazinon | 0.01* |
| 58. | Dichlorvos | 0.01* |
| 59. | Dicofol (sum of p,p' and o,p' isomers) | 0.02* |
| 60. | Dieldrin (see Aldrin) | 0.01* |
| 61. | Difenoconazole | 3.00 |
| 62. | Diflubenzuron | 0.01* |
| 63. | Dimethoate | 0.01* |
| 64. | Dimethomorph (sum of isomers) | 3.00 |
| 65. | Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap) (F) | 0.02* |
| 66. | Dinotefuran | 0.90 |
| 67. | Diquat | 0.01* |
| 68. | Dithianon | 3.00 |
| 69. | Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb and Ziram collectively estimated as CS2) | 5.00 |
| 70. | Diuron | 0.01* |

| Sr. No. | Chemicals | Harmonized EU-MRL (mg/kg) |
|----------------|---|-----------------------------------|
| 71. | Dodine | 0.01* |
| 72. | Edifenphos | 0.01* |
| 73. | Emamectin benzoate B1a, expressed as emamectin | 0.05 |
| 74. | Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulphan sulphate expressed as endosulphan) | 0.05* |
| 75. | Endrin | 0.01* |
| 76. | Epoxiconazole | 0.05* |
| 77. | Ethephon | 1.00 |
| 78. | Ethion | 0.01* |
| 79. | Ethiprole | 0.01* |
| 80. | Ethofenprox (Etofenprox) | 4.00 |
| 81. | Etoxazole | 0.50 |
| 82. | Etrimfos | 0.01* |
| 83. | Famoxadone | 2.00 |
| 84. | Fenamidone | 0.60 |
| 85. | Fenarimol | 0.30 |
| 86. | Fenazaquin | 0.20 |
| 87. | Fenhexamid (F) | 15.00 |
| 88. | Fenitrothion | 0.01* |
| 89. | Fenobucarb | 0.01* |
| 90. | Fenpropathrin | 0.01* |
| 91. | Fenpyroximate (A) (F) (R) | 0.30 |
| 92. | Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent) | 0.01* |
| 93. | Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R) | 0.30 |
| 94. | Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil) | 0.005* |
| 95. | Flonicamid (sum of flonicamid, TNFG and TNFA expressed as flonicamid) (R) | 0.03* |
| 96. | Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop) | 0.01* |
| 97. | Flubendiamide | 2.00 |
| 98. | Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent) | 0.05* |
| 99. | Flufenoxuron | 1.00 |
| 100. | Flufenzin | 0.02* |
| 101. | Fluopicolide | 2.00 |
| 102. | Fluopyram | 1.50 |
| 103. | Flusilazole | 0.01* |
| 104. | Flupyradifurone | 0.80 |
| 105. | Fluxapyroxad | 3.00 |
| 106. | Forchlorfenuron (CPPU) | 0.01* |
| 107. | Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl) | 100 |

| Sr. No. | Chemicals | Harmonized EU-MRL (mg/kg) |
|----------------|--|----------------------------------|
| 108. | Glufosinate-ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents) | 0.15 |
| 109. | Glyphosate | 0.50 |
| 110. | Hexachlorocyclohexane (HCH), alpha-isomer (F) | 0.01* |
| 111. | Hexachlorocyclohexane (HCH), beta-isomer (F) | 0.01* |
| 112. | Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor) | 0.01* |
| 113. | Hexaconazole | 0.01* |
| 114. | Hexythiazox | 1.00 |
| 115. | Homobrassinolide | 0.01*† |
| 116. | Hydrogen cyanamide (Cyanamide including salts expressed as cyanamide) | 0.01* |
| 117. | Imidacloprid | 1.00 |
| 118. | Indoxacarb (sum of indoxacarb and its R enantiomer) (F) | 2.00 |
| 119. | Iodosulfuron-methyl (sum of iodosulfuron-methyl and its salts, expressed as iodosulfuron-methyl) | 0.01* |
| 120. | Iprobenphos | 0.01* |
| 121. | Iprodione | 0.01* |
| 122. | Iprovalicarb | 2.00 |
| 123. | Isoprothiolane | 0.01* |
| 124. | Isoproturon | 0.01* |
| 125. | Kresoxim methyl | 1.00 |
| 126. | Lambda-cyhalothrin | 0.08 |
| 127. | Lead | 0.10 |
| 128. | Lindane (Gamma-isomer of hexachlorocyclohexane (HCH)) (F) | 0.01* |
| 129. | Linuron | 0.05* |
| 130. | Lufenuron | 0.01* |
| 131. | Malathion (sum of malathion and malaoxon expressed as malathion) | 0.02* |
| 132. | Mandipropamid | 2.00 |
| 133. | Mepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride) | 0.02* |
| 134. | Meptyldinocap (sum of 2,4 DNOPC and 2,4 DNOP expressed as meptyldinocap) | 1.00 |
| 135. | Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)) | 2.00 |
| 136. | Methamidophos | 0.01* |
| 137. | Methomyl | 0.01* |
| 138. | Metolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers)) | 0.05* |
| 139. | Metrafenone | 7.00 |
| 140. | Metribuzin | 0.10* |
| 141. | Milbemectin (sum of milbemycin A4 and milbemycin A3, expressed as milbemectin) | 0.02* |

| Sr. No. | Chemicals | Harmonized EU-MRL (mg/kg) |
|----------------|--|----------------------------------|
| 142. | Monocrotophos | 0.01* |
| 143. | Myclobutanil | 1.00 |
| 144. | Nitenpyram | 0.01* |
| 145. | Nereistoxin | 0.01* |
| 146. | Novaluron | 0.01* |
| 147. | Omethoate | 0.01* |
| 148. | Oxadiazon | 0.05* |
| 149. | Oxycarboxin | 0.01* |
| 150. | Oxydemeton- methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl) | 0.01* |
| 151. | Oxyfluorfen | 0.10 |
| 152. | Paclobutrazol | 0.05 |
| 153. | Paraquat | 0.02* |
| 154. | Parathion methyl (sum of Parathion methyl and paraoxon methyl expressed as Parathion methyl) | 0.01* |
| 155. | Parathion ethyl | 0.05* |
| 156. | Penconazole | 0.50 |
| 157. | Pencycuron | 0.05* |
| 158. | Pendimethalin | 0.05* |
| 159. | Permethrin (sum of isomers) | 0.05* |
| 160. | Phenthoate | 0.01* |
| 161. | Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate) | 0.01* |
| 162. | Phosalone | 0.01* |
| 163. | Phosphamidon | 0.01* |
| 164. | Picoxystrobin | 0.01* |
| 165. | Pirimiphos-methyl | 0.01* |
| 166. | Profenophos | 0.01* |
| 167. | Propamocarb (sum of propamocarb and its salt expressed as propamocarb) | 0.01* |
| 168. | Propanil | 0.01* |
| 169. | Propargite | 0.01* |
| 170. | Propetamphos | 0.01* |
| 171. | Propiconazole (sum of isomers) (F) | 0.30 |
| 172. | Propoxur | 0.05* |
| 173. | Pymetrozine | 0.02* |
| 174. | Pyraclostrobin | 1.00 |
| 175. | Pyridaben | 0.50 |
| 176. | Pyriproxyfen | 0.05* |
| 177. | Quinalphos | 0.01* |
| 178. | Simazine | 0.20 |
| 179. | Spinetoram | 0.50 |
| 180. | Spinosad (sum of Spinosyn A+D) | 0.50 |
| 181. | Spirodiclofen | 2.00 |

| Sr. No. | Chemicals | Harmonized EU-MRL (mg/kg) |
|----------------|--|-----------------------------------|
| 182. | Spiromesifen | 0.02* |
| 183. | Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramat (R) | 2.00 |
| 184. | Sulfoxaflor (sum of isomers) | 2.00 |
| 185. | <i>tau</i> -Fluvalinate | 1.00 |
| 186. | Tebuconazole | 0.50 |
| 187. | Temephos | 0.01* |
| 188. | Tetraconazole | 0.50 |
| 189. | Thiabendazole | 0.01* |
| 190. | Thiacloprid | 0.01* |
| 191. | Thiamethoxam | 0.40 |
| 192. | Thiobencarb (4-chlorobenzyl methyl sulfone) (A) | 0.01* |
| 193. | Thiodicarb | 0.01* |
| 194. | Thiometon | 0.01* |
| 195. | Thiocyclam | 0.01* |
| 196. | Thiophanate-methyl | 0.10* |
| 197. | Tolfenpyrad | 0.01* |
| 198. | Transfluthrin | 0.01* |
| 199. | Triadimefon | 0.01* |
| 200. | Triadimenol (any ratio of constituent isomers) | 0.30 |
| 201. | Triazophos | 0.01* |
| 202. | Trichlorfon | 0.01* |
| 203. | Tricyclazole | 0.01* |
| 204. | Tridemorph | 0.01* |
| 205. | Trifloxystrobin | 3.00 |
| 206. | Trifluralin | 0.01* |
| 207. | Uracil | 1.00† |

* EU-MRL set at LOQ (mg/kg) as per

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

† 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.

Reference: Commission Regulation (EC) No 1881/2006 of 19th December 2006.