# Plant protection products (PPPs) for hop productions in Slovenia for 2025; March 2025

The list of plant protection products (PPPs) for hops in 2025 has been compiled with registered PPPs in Slovenia (10 March 2025), along with the maximum residue levels (MRL) of pesticides permitted on hops in the EU, USA, Japan, China, Korea, and Great Britain.

**\*Remark: At the moment, the Chinese are establishing their own MRL system. So far, they care about MRLs of established active ingredients (a.i.) only. For others a.i. seems that China unofficially adheres to Codex MRLs, but this is not yet published.**

Table 1: Downy mildew (*Pseudoperonospora humuli*) – primary infection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Aliette flash | fosetyl-Al | 1500 | **45** | 1440 | - | **50**  import tolerance | 2000 |
| Profiler | fosetyl-Al + fluopicolide | 1500 + **0.15** | **45** + 15 | 1440 + 0.7  import tolerance | - | **50** +  15  import tolerance | 2000 +  **0.15** |

Table 2: Downy mildew (*Pseudoperonospora humuli*) – secondary infection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Aliette flash | fosetyl-Al | 1500 | 45 | 1440 | - | 50  import tolerance | 2000 |
| Badge WG | copper hydroxide + copper oxychloride | 1000  proposed | exempt | exempt | - | exempt | 1000 |
| Cuprablau Z 35 WP | copper oxychloride | 1000  proposed | exempt | exempt | - | exempt | 1000 |
| Folpan 80 WDG | folpet | 400 | 120 | 120 | - | 0.01  default | 400 |
| Folpan gold | folpet +  metalaxyl-M | 400  15 | 120  20 | 120  10 | -  10 | 0.01 - default  10 | 400  15 |
| Mirador 250 SC | azoxystrobin | 40 | 20 | 30 | 30 | 30  import tolerance | 30  Proposed import tolerance |
| Ortiva | azoxystrobin | 40 | 20 | 30 | 30 | 30  import tolerance | 30  Proposed import tolerance |
| Orondis EVO | azoxystrobin+ oxathiapiprolin | 40  8 | 20  5 | 30  5 | 30  - | 30 import tolerance  5  import tolerance | 30  Proposed import tolerance  5 |
| Polyversum | *Pythium oligandrum* | exempt | exempt | exempt | exempt | exempt | exempt |
| Revus | mandiropamid | 90 | 50 | 90 | 90 | 90  import tolerance | 90 |
| Zaftra AZT 250 SC | azoxystrobin | 40 | 20 | 30 | 30 | 30  import tolerance | 30  Proposed import tolerance |

Table 3: Powdery mildew (*Podosphaera macularis*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Cosan | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Kumulus DF | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Microthiol SC | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Pepelin | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Vindex 80 WG | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Karbicure | potassium bicarbonate | exempt | exempt | exempt | - | 0.01  default | exempt |
| Vitisan | potassium bicarbonate | exempt | exempt | exempt | - | 0.01  default | exempt |
| Luna sensation | fluopyram+  trifloxystrobin | 60  40 | 60  11 | 60  40 | -  40 | 50 import tolerance  40  import tolerance | 50  40 |
| Vivando | metrafenone | 80 | 70 | 70 | -  Proposed 70 | 70  import tolerance | 80 |

Table 4: Phoma exigua = Boeremia exigua var. exigua

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Mirador 250 SC | azoxystrobin | 40 | 20 | 30 | 30 | 30  import tolerance | 30  Proposed import tolerance |
| Ortiva | azoxystrobin | 40 | 20 | 30 | 30 | 30  import tolerance | 30  Proposed import tolerance |
| Zaftra AZT 250 SC | azoxystrobin | 40 | 20 | 30 | 30 | 30  import tolerance | 30  Proposed import tolerance |

Table 5: Cercospora cantuariensis = Phaeomycocentrospora cantuariensis

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| - | - | - | **-** | - | - | - | - |

Table 6: Hop damson aphids (*Phorodon humuli*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Afinto | flonicamid | 3 | 20 | 20 | 20 | 20  import tolerance | 3 |
| Teppeki | flonicamid | 3 | 20 | 20 | 20 | 20  import tolerance | 3 |
| Asset five | pyrethrins | 0.5 | - | - | - | - | - |
| Karate Zeon 5 CS | lambda-cyhalotrin | 10 | 10 | 10 | - | 0.7 | 10 |
| Movento SC 100 | spirotetramat | 15 | 10 | 15 | 15 | 4  import tolerance | 15 |

Table 7: Hop flea beetle (*Psylliodes attenuatus*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Asset five | pyrethrins | 0.5 | - | - | - | - | - |
| Exirel | cyantraniliprole | 0.05 | 70 | 0.01  default | - | 0.01  Default;  Proposed  10 | 0.05 |
| Karate Zeon 5 CS | lambda-cyhalotrin | 10 | 10 | 10 | - | 0.7 | 10 |

Table 8: European corn borer (*Ostrinia nubilalis*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Agree WG | *Bacillus* *Thuringhiensis* var. *Aizawai* | 0.01 default | exempt | 0.01 default | exempt | 0.01  default | 0.01  default |
| Lepinox plus | *Bacillus* *Thuringhiensis* var. *Kurstaki* | 0.01 default | exempt | 0.01 default | -  exempt | 0.01  default | 0.01  default |
| Karate Zeon 5 CS | lambda-cyhalotrin | 10 | 10 | 10 | - | 0.7 | 10 |

Table 9: Cabbage moth (*Mamestra brassicae*) and potato stem borer/rosy rustic moth (*Hydraecia micacea*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Agree WG | *Bacillus Thuringhiensis* var. *Aizawai* | 0.01 default | exempt | 0.01 default | exempt | 0.01  default | 0.01  default |

Table 10: Two-spotted spider mite (*Tetranychus urticae*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Nissorun 10 WP | hexythiazox | 3 | 20 | 25 | 3 | 20  import tolerance | 20 |
| Nissorun 250 SC | hexythiazox | 3 | 20 | 25 | 3 | 20  import tolerance | 20 |
| Milbeknock | milbemectin | 0.2 | - | 0.1 | - | 0.2  import tolerance | 0.2 |
| Kanemite SC | acequinocyl | 20 | 15 | 15 | 0.01 | 15  import tolerance | 15 |
| Movento SC 100 | spirotetramat | 15 | 10 | 15 | 15 | 4  import tolerance | 15 |
| Cosan | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Pepelin WG | sulfur | exempt | exempt | exempt | - | exempt | exempt |
| Vindex 80 WG | sulfur | exempt | exempt | exempt | - | exempt | exempt |

Table 11: Alfaalfa snout weevil (*Otiorhynchus ligustici*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Exirel | cyantraniliprole | 0.05 | 70 | 0.01 default | - | 0.01  default | 0.05 |

Table 12: Herbicides/defoliants

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Beloukha | pelargonic acid | -  exempt | -  exempt | 0.01 default | - | -  exempt | -  exempt |

Table 13: Repellents

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Trico | sheep fat | exempt | exempt | exempt | exempt | exempt | exempt |

Table 14: Limacids

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Active ingredient | EU | USA | Japan | China\* | Korea | Great Britain |
| Ferrocious | Iron phosphate | exempt | exempt | exempt | exempt | exempt | exempt |
| Hierro | Iron phosphate | exempt | exempt | exempt | exempt | exempt | exempt |