

Plant protection products (PPPs) for hop productions in Slovenia for 2024; February 2024

The list of plant protection products (PPPs) for hops in 2024 has been compiled with registered PPPs in Slovenia (23 February 2024), 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	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Aliette flash	Fosetyl-Al	2000	45	1440	-	50 import tolerance	2000
Profler	Fosetyl-Al + fluopicolide	2000 + 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	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Aliette flash	Fosetyl-Al	2000	45	1440	-	50 import tolerance	2000
Badge WG	copper hydroxide + copper oxychloride	1000	exempt	exempt	-	exempt	1000
Cuprablau Z 35 WP	copper oxychloride	1000	exempt	exempt	-	exempt	1000
Folpan 80 WDG	folpet	400	120	120	-	0.01 default	400
Mirador 250 SC	azoxystrobin	30	20	30	30	30 import tolerance	30
Ortiva	azoxystrobin	30	20	30	30	30 import tolerance	30
Polyversum	Pythium oligandrum	exempt	exempt	exempt	exempt	exempt	exempt
Revus	mandiropamid	90	50	90	90	90 import tolerance	90
Zaftra AZT 250 SC	azoxystrobin	30	20	30	30	30 import tolerance	30

Table 3: Powdery mildew (*Podosphaera macularis*)

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Cosan	sulfur	exempt	exempt	exempt	-	exempt	exempt
Kumuluf 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
Karbicare	potassium bicarbonate	exempt	exempt	exempt	-	0.01 default	exempt
Vitisan	potassium bicarbonate	exempt	exempt	exempt	-	0.01 default	exempt
Vivando	metrafenone	80	70	70	-	70 import tolerance	80

Table 4: *Phoma exigua* = *Boeremia exigua* var. *exigua*

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Mirador 250 SC	azoxystrobin	30	20	30	30	30 import tolerance	30
Ortiva	azoxystrobin	30	20	30	30	30 import tolerance	30
Zaftra AZT 250 SC	azoxystrobin	30	20	30	30	30 import tolerance	30

Table 5: *Cercospora cantuariensis* = *Phaeomycocentrospora cantuariensis*

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Zato 50 WG	trifloxystrobin	40	11	40	40	40 import tolerance	40

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

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Tepeki	flonicamid	3	20	20	20	20 import tolerance	3
Afinto	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	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Asset five	pyrethrins	0.5	-	-	-	-	-
Exirel	cyantraniliprole	0.05	-	0.01 default	-	0.01 default	0.05
Karate Zeon 5 CS	lambda-cyhalotrin	10	10	10	-	0.7	10

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

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Agree WG	<i>Bacillus Thuringhiensis</i> var. <i>Aizawai</i>	0.01 default	exempt	0.01 default	exempt	0.01 default	0.01 default
Lepinox plus	<i>Bacillus Thuringhiensis</i> var. <i>Kurstaki</i>	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	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Agree WG	<i>Bacillus Thuringhiensis</i> var. <i>Aizawai</i>	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	Maximum residue level (ppm)					
		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
Vertimec PRO	abamectin	0.1	0.2	0.2	0.1	0.15 import tolerance	0.1
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	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	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Exirel	cyantraniliprole	0.05	-	0.01 default	-	0.01 default	0.05

Table 12: Herbicides/defoliants

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Beloukha	pelargonic acid	- exempt	- exempt	0.01 default	-	- exempt	- exempt

Table 13: Repellents

Product	Active ingredient	Maximum residue level (ppm)					
		EU	USA	Japan	China*	Korea	Great Britain
Trico	sheep fat	exempt	exempt	exempt	exempt	exempt	exempt