



**Plant protection products in hops 2019 in Slovenia;
13 May 2019**

The plant protection products in hops 2019 has produced a list of registered plant protection products in Slovenia (13 May 2019) and Germany (April 2019) and maximum residue levels of pesticides on the hops in the EU, USA and Japan.

Downy mildew (*Pseudoperonospora humuli*) – primary infection

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Aliette	Fosetyl-AI	1500	45	1440
Aliette flash	Fosetyl-AI	1500	45	1440
Aliette WG	Fosetyl-AI	1500	45	1440
Fongamil gold	metalaxyl-M	15	20	10
Profiler	Fosetyl-AI + fluopicolide	1500 + 0.7	45 + 15	1440 + 0.7

Downy mildew (*Pseudoperonospora humuli*) – secondary infection

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Aliette	Fosetyl-AI	1500	45	1440
Aliette flash	Fosetyl-AI	1500	45	1440
Aliette WG	Fosetyl-AI	1500	45	1440
Champ Formula 2 FLO	copper hydroxide	1000	yes	yes
Champion 50 WG	copper hydroxide	1000	yes	yes
Cuprablau Z 35 WP	copper oxychloride	1000	yes	yes
Badge WG	copper hydroxide + copper oxychloride	1000	yes	yes
Folpan 80 WDG	folpet	400	120	120
Mirador 250 SC	azoxystrobin	30	20	30
Ortiva	azoxystrobin	30	20	30
Zaftra AZT 250 SC	azoxystrobin	30	20	30
Revus	mandipropamid	90	50	50

Powdery mildew (*Podosphaera macularis*)

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Cosan	sulfur	yes	yes	yes
Kumulus DF	sulfur	yes	yes	yes
Microthiol SC	sulfur	yes	yes	yes
Pepelin	sulfur	yes	yes	yes
Vindex 80 WG	sulfur	yes	yes	yes
Sythane 20 EW	myclobutanil	5	10	10
Vitisan	potassium hydrogen carbonate	yes	yes	0.01 (default)
Vivando	metrafenone	80	70	70

Phoma exigua

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Mirador 250 SC	azoxystrobin	30	20	30
Ortiva	azoxystrobin	30	20	30
Zaftra AZT 250 SC	azoxystrobin	30	20	30



Cercospora cantuariensis

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Zato 50 WG	trifloxystrobin	40	11	40

Hop damson aphids (*Phorodon humuli*)

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Chess 50 WG	pymetrozine	15	6	15
Tepeki	flonicamid	3	20	5
Karate Zeon 5 CS	lambda-cyhalothrin	10	10	10
Karis 10 CS	lambda-cyhalothrin	10	10	10
Movento SC 100	spirotetramat	15	10	15

Hop flea beetle (*Psylliodes attenuatus*)

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Karate Zeon 5 CS	lambda-cyhalothrin	10	10	10
Karis 10 CS	lambda-cyhalothrin	10	10	10

European corn borer (*Ostrinia nubilalis*)

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Karate Zeon 5 CS	lambda-cyhalothrin	10	10	10
Karis 10 CS	lambda-cyhalothrin	10	10	10
Lepinox plus	<i>Bacillus thuringiensis</i> var. <i>kurstaki</i>	0.01 (default)	yes	0.01 (default)
Agree WG	<i>Bacillus thuringiensis</i> var. <i>aizawai</i>	0.01 (default)	yes	0.01 (default)

Spider mite (*Tetranychus urticae*)

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Nissorun 10 WP	hexythiazox	20	20	25
Vertimec PRO	abamectin	0.1	0.2	0.2
Milbeknock	milbemectin	0.2	-	0.1
Koromite	milbemectin	0.2	-	0.1
Kanemite SC	acequinocyl	15	15	15
Movento SC 100	spirotetramat	15	10	15

Herbicides/defoliant

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Beloukha	pelargonic acid	yes	yes	-

Repellent

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Trico	sheep fat	yes	yes	yes