



**Plant protection products in hops 2018 in Slovenia;  
20 March 2018**

The plant protection products in hops 2018 has produced a list of registered plant protection products in Slovenia (20 March 2018) and Germany (November 2017) 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-Al	1500	45	1440
Aliette flash	Fosetyl-Al	1500	45	1440
Aliette WG	Fosetyl-Al	1500	45	1440
Fongani gold	metalaxyl-M	15	20	10
Profiler	Fosetyl-Al + fluopicolide	1500 + 0.7	45 + 30	1440 + 0.7

**Downy mildew (*Pseudoperonospora humuli*) – secondary infection**

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
Aliette	Fosetyl-Al	1500	45	1440
Aliette flash	Fosetyl-Al	1500	45	1440
Aliette WG	Fosetyl-Al	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
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
Kumuluf DF	sulfur	yes	yes	yes
Microthiol SC	sulfur	yes	yes	yes
Pepelin	sulfur	yes	yes	yes
Vindex 80 WG	sulfur	yes	yes	yes
Systhane 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
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
Confidor 70 WG	imidacloprid	10	6	7
Kohinor SL 200	imidacloprid	10	6	7
Tepeki	flonicamid	3	20	5
Karate Zeon 5 CS	lambda-cyhalothrin	10	10	10
Karis 10 CS	lambda-cyhalothrin	10	10	10

### 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

### Herbicides/defoliant

Product	Active ingredient	Maximum residue level (ppm)		
		EU	USA	Japan
-	-	-	-	-

### Repellent

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