

Methodology of hop protection – 2018 crop

obligatory for all Top Hop suppliers

| Trade Name (active substance) | Concentration (dose per 1 ha) | Protective Period | Date of Application |
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| DOWNY MILDEW OF HOPS (Pseudoperonospora humuli) | | | |
| Aliette 80 WP (fosetyl-Al) | 0,3 % | 14 days | At infection before introduction or after introduction of hop. |
| Ortiva (azoxystrobin) | 0,75 – 1,6 l | 14 days | The second half of June till the first half of July. |
| Bellis (pyraclostrobin + boscalid) | 0,9 -2,0 kgs (as per growing period) | 28 days | June – the first half of July. |
| Revus (mandipropamid) | 1,6 l | 14 days | After indtroduction till end of July. |
| Orvego (dimethomorf+ametoktradin) | 2,7 l | 10 days | The beginning of July till the beginning of August. |
| Kuprikol 250 SC (oxychloride-copper) | 10 l | 7 days | The second half of July till the beginning of August. |
| Flowbrix (oxychloride copper) | 3,5 – 6,6 kg | 7 days | The second half of July till the beginning of August. |
| Curzate K (cymoxanil + oxychlorid Cu) | 5 kg | 7 days | After indtroduction till end of June. |
| Curenox 50 (oxychloride copper) | 5 kg | 7 days | The second half of July till the beginning of August. |
| Cuprocaffaro micro (oxychloride copper) | 0,35 % | 7 days | The second half of July till the beginning of August. |
| Cuproxtat SC (alkaline copper sulfate) | 4 – 10 l | 14 days | In August. |
| Funguran progress (hydroxide copper) | 2,4 – 5,4 l | 7 days | The second half of July till the beginning of August. |
| Badge WG (hydroxide + oxychloride copper) | 7,14 kg | 14 days | The second half of July till the beginning of August. |
| Airone SC (hydroxide + oxychloride copper) | 7,35 l | 14 days | The second half of July till the beginning of August. |
| Coprantol Duo (hydroxide + oxychloride copper) | 7,14 kg | 14 days | The second half of July till the beginning of August. |
| Defender (hydroxide copper) | 2,4 – 5,4 l | 14 days | Till the formation of cones. |
| Defender Dry (hydroxide copper) | 2,4 – 5,4 kg | 7 days | Till the formation of cones. |
| Cobran (hydroxide copper) | 2,4 – 5,4 kg | 7 days | Till the formation of cones. |
| POWDERY MILDEW (Sphaerotheca humuli) | | | |
| Bellis (pyraclostrobin + boscalid) | 0,9 – 2,0 kgs (as per growing period) | 28 days | At detection of disease till the end of July. |
| Kumulus WG (sulphur) | 10 – 12,5 kgs | 7 days | After introduction till formation of cones. |
| APHIDES (Phorodon humuli) | | | |
| Warrant 700 WG (imidacloprid) | 0,008 % | 42 days | From 20 th June till 5 th July. |
| Confidor 200 OD (imidacloprid) | 0,6 l | 42 days | From 20 th June till 5 th July. |
| Movento 150 OD (spirotetramat) | 1 l | 21 days | From the second half of June till the finishing of the flowering. |

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| Tepeki (flonicamid) | 0,18 kg | 21 days | In June till first half of July. |
| Plenum (pymetrozin) | 0,8 kg | 14 days | According to warning. |
| RED SPIDER MITE (<i>Tetranychus urticae</i>) | | | |
| Nissorun 10 WP (hexythiazox) | 1,5 kg | 28 days | In May till first half of June. |
| Ortus 5 SC (fenpyroximate) | 0,125 % | 21 days | In June and July. |
| Kanemite 15 S (acequinocyl) | 0,15 % | 21 days | In June and July. |
| Acramite 480 SC (bifenazate) | 1,5 l | 14 days | Since end of July till beginning of August |
| Vertimec 1,8 EC Vertimec 1,8 SC (abamectin) | 0,04 % 0,85 l - 1,25 l | 28 days | Till July 20 th . |
| ALFALFA SNOUT BEETLE (<i>Otiorrhynchus ligustici</i>) | | | |
| Actara 25 WG (thiamethoxam) | 0,2 kg | -- | At the time of insect mass get up. |
| ROSY RUSTIC MOTH (<i>Hydraecia micacea</i>) | | | |
| Actara 25 WG (thiamethoxam) | 0,2 kg | -- | In April till the first half of May. |
| FLEA BEETLE (<i>Psylliodes attenuata</i>) | | | |
| Actara 25 WG (thiamethoxam) | 0,2 kg | -- | 5-10% damage of leaf |
| BUGS (<i>Miridae</i>) | | | |
| Karate Zeon techn. 5 CS (lambda-cyhalothrin) | 0,125 l | 14 days | At the appearance of hop's damage, before the flowering at the latest. |
| LEAF CURLING | | | |
| Zinc sulphate ZnSO ₄ · 7 H ₂ O | 0,15 % (1,5 kg - 3,0 kg) | -- | After the hop training. According to the symptoms additional 1-2 sprays. |
| Zinkosol forte (produced from ZnSO ₄) | 0,3 % (3,0 l - 4,5 l) | -- | |
| WEEDS CLEARANCE AFTER HARVEST | | | |
| Fusilade Forte 150 EC (fluazifop P-butyl) | 2,5 l - 3,0 l (couch grass) 1,0 l - 1,5 l (annual grass) | -- | After the harvest till September 15 th . |

Notices:

- 1) Usage of growth stimulators is prohibited.
- 2) Application of herbicides can be exceptionally allowed prior to the TOP HOP advice.
Herbicides based on MCPA are strictly prohibited!
- 3) Other substances which are not mentioned in this list must not be used!
- 4) It is prohibited to use generics despite the active substances are identical with substances mentioned in this Methodology.
- 5) During the chemical protection of plants hereabout hop gardens hops must not be affected in any case by applied chemicals (e.g. wind transmission)!