

## **International Hop Growers Convention - Committee on Regulatory Harmonization**

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Ann George, Chair

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In this initial report to the IHGC, efforts that are currently underway to address regulatory harmonization issues that impact the international trade of hops, particularly in the area of chemical (pesticide) residue tolerances will be reviewed.

Two primary organizations are currently engaged in efforts to harmonize pesticide regulatory standards between hop exporters and customers:

1. The US Hop Industry Plant Protection Committee was formed in 1988 with an initial goal of seeking domestic registrations for new pesticides to deal with hop pests and diseases. The USHIPPC's focus expanded to include international harmonization of pesticide maximum residue levels (MRLs), as well as management of local and national regulatory issues pertaining to pesticide usage. The committee's membership includes hop growers from Washington, Oregon and Idaho, as well as hop merchant representatives from all major companies and hop plant protection researchers. Administrative support is provided by Ann George, Administrator, Hop Growers of America and Washington Hop Commission, Yakima, WA. Technical support is provided by Matthew Lantz, Bryant Christie Inc., Seattle, WA.
2. The European Union recognized the need to assist growers in coordinating efforts on pesticide registration and regulation, and launched the Commodity Expert Group program in 2012. CEGs have now been formed for Rice, Vegetables, Fruits, Tobacco, Ornamentals, and Hops. CEGs have been meeting two times each year, with the last meeting in Berlin during February 2014. The Hop CEG is chaired by Dr. Wolfgang Sichelstiel, Bavarian State Research Center for Agriculture Institute for Crop Science and Plant Breeding, Huell. Representatives from all European hop growing countries participate, including many members of the IHGC Scientific Commission. Coordination of activities is supported by Dr. Mario Wick, Julius Kühn-Institute (JKI), Federal Research Centre for Cultivated Plants, Working Group Minor Uses, Germany.

For many years the US Hop Industry Plant Protection Committee has collaborated with European scientists and hop industry officials to coordinate activities pertaining to the harmonization of MRLs (maximum residue levels) between the USA and European countries. Formal efforts have also addressed discrepancies in Canadian and Japanese standards, as well as the Codex Alimentarius Commission, which sets international standards on behalf of the World Health Organization.

However, the formation of the European Union Commodity Expert Group for Hops has allowed an increase in communications and collaboration, by providing all European hop growing countries to have a formal role in the process. Ann George or Matthew Lantz participate in CEG-Hops meetings, to insure communications and cooperation between USA and EU on the setting of priorities and project planning.

The European Union has established a detailed Minor Uses database that allows participating country representatives to prioritize chemicals for registration and harmonization. Information on this database is attached. The USHIPPC maintains a MRL comparison chart to track pesticide standards in key markets (summary chart is also attached). This chart is updated monthly.

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## Welcome to the EU Minor Uses Database (EUMUDA)

### Minor Use Tools:

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### Map Legend:

Northern Zone  
Central Zone  
Southern Zone  
non-EU Member

**International Hop MRLs**

Updated March 26, 2014 - For informational purposes only.  
 U.S. Hop Industry Plant Protection Committee  
 Contact Ann George, 509-453-4749, ageorge@wahops.org

Default MRLs:	
EU	0.01 ppm
Japan	0.01 ppm
Canada	0.1 ppm
(indicated as "---" below)	

Common Name	Pesticide Type	Trade Name	Registrant	US MRL (ppm)	Codex MRL (ppm)	EU MRL (ppm)	Japan MRL (ppm)	Canada MRL (ppm)	Australia MRL (ppm)
<b>A. Domestic registrations with regular usage by commercial hop growers:</b>									
2,4-D	Herbicide	2,4-D	---	0.2	---	0.1	0.08	---	---
Abamectin	Miticide	Agriemek, Vertimec	Syngenta	0.2	0.1	0.05	0.2	---	0.1
Acequinocyl	Miticide	Kanemite	Arysta	4	---	15	15	---	---
Ametoctradin	Fungicide	Zampro (ametoctradin + dimethomorph)	BASF	10	30	15	---	10	---
Bifenazate	Miticide	Acramite	Chemtura	15	20	20	20	15	3
Bifenthrin	Insecticide	Capture, Brigade, Discipline 2E	FMC	10	20	10	10	---	10
Boscalid	Fungicide	Pristine/Bellis (pyraclostrobin + boscalid)	BASF	35	60	60	35	35	0.5
Carfentrazone-ethyl	Desiccant	Aim	FMC	0.1	---	0.02	0.3	---	0.05
Chlorantraniliprole	Insecticide	Coragen	DuPont	90	40 (proposed)	0.02	90	---	20
Clethodim	Herbicide	SelectMax, Shadow	Valent, Arysta	0.5	---	0.1	---	---	0.1
Clopyralid	Herbicide	Stinger	Dow	5	---	5	5	5	2
Cyazofamid	Fungicide	Ranman	FMC	10	---	0.02	10	---	---
Cymoxanil	Fungicide	Curzate	DuPont	7	---	2	2	---	---
Dimethenamid-P	Herbicide	Outlook	BASF	0.05	---	0.02	0.05	---	---
Dimethomorph	Fungicide	Acrobat/Forum	BASF	60	80	80	80	40	---
Ethoprop	Insecticide	Mocap EC	Bayer	0.02	---	0.02	---	---	---
Etozazole	Miticide	Zeal	Valent	7	15	15	15	---	---
Famoxadone	Fungicide	Tanos (famoxadone+cymoxanil)	DuPont	80	---	0.05	---	---	---
Fenpyroximate	Miticide	FujiMite	Nichino	10	10	10	15	---	---
Fonicamid	Insecticide	BeLeaf, Teppeki	FMC	7	---	2	5	7	---
Flumioxazin	Herbicide	Chateau	Valent	0.05	---	0.1	---	---	---
Folpet	Fungicide	Folpan	MANA	120	---	150	120	---	---
Fosetyl-Al	Fungicide	Aliette	Bayer	45	---	1500	1440	---	---
Glyphosate	Herbicide	Roundup Original II; Honcho Plus	Monsanto	7	---	0.1	0.1	---	0.1
Hexythiazox	Miticide	Savey, Ordovol	Gowan	2	3	20	30	---	---
Imidacloprid	Insecticide	Provado, Admire, Confidor	Bayer	6	10	10	7	6	10
Mandipropamid	Fungicide	Revus	Syngenta	50	90 (proposed)	50	50	18	---
Metalaxyl/ Mefenoxam	Fungicide	Ridomil (Gold)	Syngenta	20	10	10	10	8	---
Myclobutanil	Fungicide	Rally, Systhane	Dow	10	2	2	10	---	2
Norflurazon	Herbicide	Solicam	Syngenta	3	---	---	3	---	---
Paraquat	Herbicide	Gramoxone	Syngenta	0.5	0.1	0.05	0.2	---	0.2
Propargite	Miticide	Omite	Chemtura	100	100	100	100	30	3
Pymetrozine	Insecticide	Fulfill/Plenum	Syngenta	6	---	15	15	6	10
Pyraclostrobin	Fungicide	Pristine/Bellis (pyraclostrobin + boscalid)	BASF	23	15	15	15	23	---
Quinoxifen	Fungicide	Quintec/Fortress	Dow	3	1	2	1	2.5	5
Spinetoram	Insecticide	Delegate WG	Dow	22	---	0.1	---	---	1
Spinosad	Insecticide	Entrust 80W (organic form)	Dow	22	---	22	---	---	5
Spirodiclofen	Miticide	Envidor	Bayer	30	40	40	40	40	---
Spirotetramat	Insecticide	Ultor/Movento	Bayer	10	15	15	15	10	---
Spiroxamine	Fungicide	Accrue	Bayer	50	---	0.1	50	---	---
Tebuconazole	Fungicide	Folicur	Bayer	35	40	40	30	---	0.5
Thiamethoxam	Insecticide	Platinum	Syngenta	0.1	---	0.1	0.1	0.1	---
Trifloxystrobin	Fungicide	Flint	Bayer	11	40	30	40	---	---
Triflumizole	Fungicide	Procure	Chemtura	50	30 (proposed)	0.1	0.05	---	---
<b>B. Domestic registrations with little or no commercial usage on bearing hops:</b>									
Beta-cyfluthrin	Insecticide	Baythroid	Bayer	20	---	20	---	---	---
Cyfluthrin	Insecticide	Baythroid	Bayer	20	---	20	20	---	---
Dicofol	Miticide	Dicofol	MANA	65	---	50	50	---	5
Fenarimol	Fungicide	Rubigan/Focus	Gowan	5	5	5	5	---	---
Malathion	Insecticide	Fyfanon	---	1	---	0.02	1	---	---
Naled	Insecticide	Dibrom	---	0.5	---	---	0.1	---	---
Pyridaben	Miticide	Pyramite	Gowan	10	---	10	10	---	---
Trifluralin	Herbicide	Treflan	Dow	0.05	---	0.05	0.05	---	0.05
<b>C. Allowable negligible residues resulting from irrigation water containing residues from applications near aquatic sites:</b>									
Diquat	Herbicide	Reglone	---	0.2	---	0.1	0.04	---	0.2
<b>D. Tolerances for import purposes only (no domestic registration):</b>									
Azoxystrobin	Fungicide	Abound,Ortiva	Syngenta	20	30	30	30	20	10
Dithianon	Fungicide	Aktuan	---	100 (import)	---	---	---	---	---
Endothall	Desiccant	Des-I-Cate	---	0.1	---	---	0.1	---	---
Methomyl	Insecticide	Lannate/Nudrin	DuPont	12	---	10	8	---	0.5
Milbemectin	Miticide	Mesa	Mitsui	---	---	0.1 0.2 on 7/6/14	0.1	---	---

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(indicated as "---" below)	

Common Name	Pesticide Type	Trade Name	Registrant	US MRL (ppm)	Codex MRL (ppm)	EU MRL (ppm)	Japan MRL (ppm)	Canada MRL (ppm)	Australia MRL (ppm)
Tolyfluanid	Fungicide	Euparen M	---	30	50	1	50	---	---
Lambda cyhalothrin	Insecticide	Karate	Syngenta	10	---	10	10	0.01	---
Phorate	Insecticide	Rampart	---	2	---	0.05	0.3	---	---
<b>E. Tolerances for new products in US registration pipeline:</b>									
Fenazaquin	Miticide	Magister	Gowan	2.0 (proposed)	---	---	---	---	---
Fluopicolide	Fungicide	Presidio	Valent	---	---	0.02	---	---	---
Fluopyram + trifloxystrobin	Fungicide	Luna Sensation 500SC	Bayer	100 (proposed) fluopyram	---	0.01	---	---	---
Flupyradifurone	Bayer	---	---	20 (proposed)	---	---	---	---	---
Metrafenone	PM Fungicide	Vivando	BASF	---	---	---	---	---	---
Pendimethalin	Herbicide	Prowl	BASF	---	---	0.1	---	---	0.1
Pyraflufen-ethyl	Herbicide	Venue/Quickdown	Nichino	---	---	0.05	0.05	---	---
<b>F. Tolerance exempt domestic registrations with usage by commercial hop growers:</b>									
Bacillus subtilis (strain QST 713)	Fungicide	Serenade	---	exempt	---	exempt	---	---	---
Bacillus thuringiensis(kurstaki)2	Insecticide	Dipel, Javelin, Crymax	---	exempt	---	---	---	---	---
Copper hydroxide & oxychloride	Fungicide	various	---	exempt	---	1000	exempt	---	---
Gibberilic Acid	Growth Regulator	various	---	exempt	---	5	---	---	---
Harpin Protein	Fungicide	Messenger	---	exempt	---	---	---	---	---
Neem oil, plant extract oils	---	---	---	exempt	---	---	---	---	---
Pelargonic acid	Herbicide	Scythe	---	exempt	---	exempt	---	---	---
Peroxyacetic acid	Fungicide	OxiDate 2.0	BioSafe Systems	exempt	---	---	---	---	---
Potassium bicarbonate	Fungicide	Kaligreen, Armicarb	---	exempt	---	---	exempt	---	---
Reynoutria sachalinensis extract	Bioprotectant fungicide	Regalia	Marrone Bio Innovations	exempt	---	---	---	---	---
Sorbitol octanoate	Bioinsecticide-miticide	SorbiShield 90	Natural Forces	exempt	---	---	---	---	---
Soybean oil	Biofungicide	Oleotrol M	Natural Forces	exempt	---	---	---	---	---
Stylet Oil, crop oils (petroleum)	Fungicide	JMS Stylet Oil & others	---	exempt	---	---	exempt	---	---
Sulfur	---	various	---	exempt	---	---	exempt	---	---