



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MAY 29 2014

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Ms. Katy Coba, Director  
Oregon Department of Agriculture  
635 Capitol Street NE  
Salem, Oregon 97301-2532

**Date Amended:** May 29, 2014  
**Expiration Date:** December 31, 2014  
**Report Due:** June 30, 2015  
**File symbol:** 14OR02

**Attn:** David Priebe

\*\*\*\*\* AMENDMENT \*\*\*\*\*

The U.S. Environmental Protection Agency (EPA) hereby amends the subject specific emergency exemption previously granted under the provisions of section 18 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended, to the Oregon Department of Agriculture for the use of potassium salt of hop beta acids in honeybee colonies to control varroa mites.

This specific exemption is amended to change the current HopGuard<sup>®</sup> product to an improved HopGuard II strip. Use of the new HopGuard<sup>®</sup> II product reduces the maximum number of applications from six to three. Conditions #2, 3, 4, 5, 6, 7 and 8 detailed in your February 27, 2014 authorization letter are amended as follows:

2. The unregistered product, HopGuard<sup>®</sup> II (containing 16% potassium salt of hop beta acids), manufactured by BetaTec Hop Products, a subsidiary of John I. Haas, Inc., may be applied. All applicable directions, restrictions, and precautions on the revised container label as well as the section 18 use directions submitted with your May 20, 2014 amendment request must be followed.

3. A maximum of 720,000 strips treated with potassium salt of hop beta acids may be used.

4. HopGuard<sup>®</sup> II applications may be made by inserting cardboard strips treated with potassium salt of hop beta acids between brood frames within the honeybee colony or applications may be made by inserting cardboard strips treated with potassium salt of hop beta acids into packages of adult worker bees prior to installation in a honey bee colony.

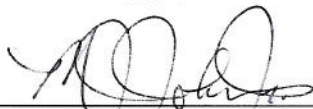
5. HopGuard® II may be applied using treated cardboard strips at a rate of one strip (4.0 grams of potassium salt of hop beta acids/strip) per five deep combs covered with bees in each brood (super) chamber. For example, two strips are needed for a 10-frame brood super (chamber) when all the combs are covered with bees.

6. For packaged beehives, HopGuard® II may also be applied at the rate of three half strips per 2 lb. or 3 lb. package of adult worker bees, with each half strip containing approximately 2.0 grams of potassium salt of hop beta acids.

7. A maximum of three applications may be made per year (6 strips or approximately 24.0 grams of potassium salt of hop beta acids) during spring, summer or fall. Application timing should be based on the levels of varroa mite observed in the colony. This limit includes all applications to the package (if applicable) and to the colony.

8. Colony - Strips must be applied at the rate of one strip per five deep combs covered with bees in each brood super or for example, two strips per ten frame brood super (chamber) when all combs are covered with bees. Strips are to be placed only in the brood chamber (not in the honey super). Folded strips must be opened and hung over one of the center brood frame with one-half of the strip on each side of the frame. If using a second strip, apply it to an adjacent center frame about four inches away from the first strip. Do not lay the strips on top of the frames. Place strips hanging between frames and within the colony cluster. Six strips or approximately 24.0 grams of potassium salt of hop beta acids (a maximum of three applications per year) per ten frame brood super (chamber) is allowed. As an advisory and for optimal results, apply HopGuard® II when little or no brood is present in the hive. Remove the strip if it remains in the hive more than 30 days.

All other conditions and restrictions as stated in your February 27, 2014 authorization letter still apply.



Marion J. Johnson, Jr. Branch Chief  
Risk Integration, Minor Use and Emergency  
Response Branch, Registration Division

Date: 5/29/14

cc: USEPA Region 10, Chad Schulze  
USEPA Region 10 Pesticide Tribal Coordinator, Gabriella Carvalho