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Re-evaluation Note

REV2018-10

# Re-evaluation Project Plan for (S)-Kinoprene

*(publié aussi en français)*

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## **Background**

In Canada, (S)-kinoprene is under re-evaluation by Health Canada's Pest Management Regulatory Agency (PMRA). The PMRA re-evaluates registered pesticides to determine whether the use of these products continues to be acceptable in terms of value, human health and the environment according to current standards.

(S)-kinoprene is an insect growth regulator used for agriculture to control insect pests throughout their life cycle. It is registered for use on greenhouse non-food crops and is applied as a foliar spray. There is one technical grade active ingredient and one commercial class end-use product.

Under the authority of section 16 of the *Pest Control Products Act*, the registrant of (S)-kinoprene was notified of the initiation of the re-evaluation of (S)-kinoprene. Following this, the registrant of (S)-kinoprene technical grade active ingredient in Canada indicated support of all uses included on the label of the end-use product in Canada.

The re-evaluation project plan below outlines the timeline, the anticipated areas of focus for the risk assessments, and the data requirements for the re-evaluation of (S)-kinoprene.

## **Re-evaluation Project Plan**

### **Anticipated Re-evaluation Timeline**

The re-evaluation of (S)-kinoprene is defined as a Category 1 as described in Regulatory Directive DIR2016-04, *Management of Pesticides Re-evaluation Policy*. However, because this re-evaluation was initiated prior to the publication of DIR2016-04, the proposed re-evaluation decision for (S)-kinoprene is anticipated to be published for consultation by December 2019. The re-evaluation timeline may be updated if the PMRA identifies additional areas of focus during the risk assessment that should be considered.

### **Human Health Risk Assessment**

New assessments will be conducted for toxicology, occupational exposure and residential exposure.

### **Environmental Risk Assessment**

New assessments will be conducted for environmental fate and environmental exposure.

### **Value**

The value of (S)-kinoprene will be considered. The viability of alternatives will be examined for certain uses if risks of concern requiring mitigation are identified.

### **Data Requirements**

The PMRA identified the need for the technical registrant to provide data for (S)-kinoprene related to health and the environment. Relevant data/studies were requested and received from

the technical registrant. A summary of the data call-in is found in the PMRA's Public Registry, in the Pesticides section of Canada.ca. For a list of data categories that were required, see Appendix I. In addition, information regarding the registered use pattern was requested and received from the registrant, to inform the risk assessments.

### **Additional Information**

PMRA documents can be found in the Pesticides section of Canada.ca. The PMRA documents are also available through the Pest Management Information Service:

|         |                                |  |
|---------|--------------------------------|--|
| Phone:  | 1-800-267-6315                 | within Canada, or                            |
|         | 1-613-736-3799                 | outside Canada (long distance charges apply) |
| Fax:    | 1-613-736-3798                 |  |
| E-mail: | hc.pmra.info-arla.sc@canada.ca |  |

## Appendix I Data Required Under Subsection 19(1) of the *Pest Control Products Act* for the Re-evaluation of (S)-kinoprene

### I. Toxicology Data

| DACO  | Title  |
|-------|--|
| 4.2.6 | Dermal Sensitization                         |
| 4.3.1 | Dermal Sensitization                         |
| 4.3.2 | Short-term Oral (90-day and/or 12-month dog) |
| 4.5.2 | Prenatal Developmental Toxicity (rodent)     |

### II. Environmental Chemistry, Fate and Toxicology Data

| DACO      | Title  |
|-----------|--|
| 8.2.2.1   | Analytical Methodology: soil                     |
| 8.2.2.3   | Analytical Methodology: water                    |
| 8.2.3.2   | Laboratory Studies of Transformation: hydrolysis |
| 8.2.3.4.2 | Aerobic Soil Metabolism                          |
| 9.2.4.2   | Bees/Pollinators: acute oral                     |
| 9.2.4.3   | Bee larvae toxicity                              |
| 9.2.4.4   | Bee adult chronic toxicity                       |
| 9.2.5     | Bees/Pollinators: predators                      |
| 9.2.6     | Bees/Pollinators: parasites                      |