

## Evaluation Report for Category B, Subcategory 3.2, 3.3, 3.4, 3.11 and 3.12 Application

**Application Number:** 2014-0003  
**Application:** Changes to Product Labels - New pests, new site or host, application timing, application number or frequency and application method  
**Product:** Rampart Fungicide  
**Registration Number:** 30654  
**Active ingredients (a.i.):** Mono- and di-potassium salt of phosphorous acid  
**PMRA Document Number:** 2451037

### Background

Rampart Fungicide (Registration Number 30654; guarantee 53% mono- and di-potassium salt of phosphorous acid) is currently registered for the suppression of downy mildew on brassica leafy vegetables (Crop Group 5) and grapes and for control of late blight and pink rot on post-harvest (stored) potatoes.

### Purpose of Application

The purpose of this application was to amend the label of Rampart Fungicide to add a claim of suppression of late blight and pink rot when applied foliarly (ground and air) to potatoes prior or during the growing season, as well as a claim of suppression of downy mildew on blackberries.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

Rampart Fungicide is of low acute toxicity by the oral, dermal, and inhalation routes of exposure; mildly irritating to the eyes; non-irritating to the skin; and is not a dermal sensitizer.

Occupational exposure to Rampart Fungicide will be minimal if workers follow label directions. The registered label has a number of exposure reduction statements (e.g., personal protective equipment (PPE), clothing, hygiene statement) to protect workers against any unnecessary risk from exposure, including exposure from the aerial application.

Due to the low acute oral toxicity of Rampart Fungicide and no significant difference in the application rates and frequency of application from its registered uses, there is no concern for dietary exposure from the use.

Rampart Fungicide is not to be applied near or directly to water, and it is likely to be degraded in the environment rapidly should off-target exposure or drift occur; therefore, risk from exposure to drinking water is not of concern. Moreover, the label has a number of precautionary statements and use directions to prevent contamination of drinking water sources.

### **Maximum Residue Limit**

PMRA has not specified a maximum residue limit (MRL) for mono- and di-potassium salt of phosphorous acid.

### **Incident Reports**

Since April 26, 2007, registrants have been required by law to report incidents to the PMRA that include adverse effects to health and the environment. Information on the reporting of incidents can be found on the PMRA website. Incidents were searched and reviewed for the active ingredient mono- and di-potassium salt of phosphorous acid. As of November 24, 2014, there are no new incidents since the one already reported for the registration of Rampart Fungicide in the Proposed Registration Decision document, PRD2012-26: *Mono- and Di-Potassium Salts of Phosphorous Acid (Rampart)*.

### **Environmental Assessment**

Based on previous assessments, mono- and di-potassium salts of phosphorous acid are known to be practically non-toxic to terrestrial and aquatic non-target organisms in the environment. The addition of aerial application to the Rampart Fungicide label will increase exposure of non-target organisms in the environment to mono- and di-potassium salts of phosphorous acid. However, as the toxicity of mono- and di-potassium salts of phosphorous acid to terrestrial and aquatic non-target organisms is low, the risk to non-target organisms in the environment is, therefore, not expected to increase compared to the currently registered uses of mono- and di-potassium salts of phosphorous acid.

### **Value Assessment**

Value information was submitted as experimental trials and scientific literature to support the requested claims. Based on a weight of evidence approach, sufficient value information was provided to support suppression of late blight (*Phytophthora infestans*) and pink rot (*Phytophthora erythroseptica*) in potatoes when applied foliarly (by ground or aerial application) as well as suppression of downy mildew (*Peronospora sparsa*) in blackberries on the Rampart Fungicide label.

Rampart Fungicide is currently registered to control late blight and pink rot when applied as a post-harvest application to potato tubers. Growers will now be able to use Rampart Fungicide to suppress late blight and pink rot during the growing season. Additionally, as there were no

fungicides previously registered against downy mildew on blackberry, growers now have an option to suppress this disease. Mono- and dipotassium salts of phosphorous acid fungicides are systemic, can move both up and down within the plant to protect the roots and tubers and have residual activity. In addition, its complex mode of action makes it difficult for pathogens to develop resistance.

### **Conclusion**

The PMRA has completed a review of available information and has determined that it is sufficient to support the amendment of the Rampart Fungicide label to add a claim of suppression of late blight and pink rot when applied foliarly (ground and air) to potatoes prior or during the growing season, as well as a claim of suppression of downy mildew on blackberries.

## References

PMRA Document Number	Reference
2389503	2014, Efficacy and Crop Tolerance of Rampart™ Fungicide Reg. No. 30654 (Active ingredient Mono- and dipotassium salts of phosphorous acid) for control of pink rot and late blight in potato, downy mildew in blackberry, Phytophthora on strawberries. DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3(D), 10.3, 10.3.2, 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
2389498	2014, Use Description/Scenario (application and post-application), DACO: 5.2

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