

## Evaluation Report for Category B, Subcategory 3.4 Application

**Application Number:** 2015-1711  
**Application:** B.3.4 - New Application Method  
**Product:** Devrinol 2-XT Selective Herbicide  
**Registration Number:** 31688  
**Active ingredients (a.i.):** Napropamide  
**PMRA Document Number :** 2592978

### Purpose of Application

The purpose of this application was to amend the Devrinol 2 XT Selective Herbicide to allow this product as a chemigation application to control labelled weeds in cranberries.

### Chemistry Assessment

Chemistry assessment was not required for this application.

### Health Assessments

The occupational exposure and risk from the addition of chemigation on cranberries to the Devrinol 2-XT Selective Herbicide label was assessed. No health risks of concern are expected from the chemigation use, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

Previously reviewed residue data from field trials conducted in the United States with ground application of napropamide on cranberries were reassessed in the framework of this petition. Based on this assessment, residues of napropamide in/on cranberries treated by chemigation according to the approved use directions for Devrinol 2-XT Selective Herbicide should be <0.05 ppm and will be covered by the MRL of 0.1 ppm currently established for napropamide in/on cranberries as per Health Canada's MRL Database (<http://pr-rp.hc-sc.gc.ca/mrl-lrm/index-eng.php>). Hence, an update to the MRL for napropamide in/on cranberries is not required and the addition of chemigation as an application method for this end-use product will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

### Environmental Assessment

United Phosphorus Inc. has applied to add chemigation application to cranberry crops in addition to the existing field sprayer application technique on the Devrinol 2-XT Herbicide label. Devrinol 2-XT Herbicide is fully registered for use in identified agricultural crops. There are no outstanding data required for the technical active ingredient napropamide.

The addition of chemigation application on cranberry to the label is at the same rate registered for field sprayer application. There is no additional exposure or risk anticipated

to the environment over the existing use on cranberry. Napropamide is toxic to aquatic organisms and terrestrial plants. To mitigate against potential adverse effects of downwind drift on sensitive habitats, appropriate spray drift buffer zones for chemigation application are required on the product label.

### **Value Assessment**

Since Devrinol 2-XT Selective Herbicide requires adequate soil moisture for its activation, irrigation is required if soil moisture is insufficient at the time of application and rainfall does not occur within a few days. Chemigation would save the grower's time and cost by having to complete only one task (chemigation) rather than two (application and irrigation).

The value information demonstrated that the product performance, in terms of efficacy and crop tolerance, would not be significantly affected with the chemigation versus the labelled soil surface or incorporated application.

Based on the weight of evidence, the inclusion of the chemigation on the Devrinol 2-XT Selective Herbicide label is deemed to have value and can be supported for registration.

### **Conclusion**

The PMRA has conducted a review of the information provided in support of the use of this product as a chemigation application. Based on this review, the use of this product as a chemigation application is acceptable for full registration.

### **References**

PMRA # 2528887      2015, Rationale to waive efficacy data to add chemigation of Devrinol 2-XT Selective Herbicide on cranberry, DACO: 10.1.

ISSN: 1911-8082

**8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2016**

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.