

## Evaluation Report for Category B, Subcategory 2.1 Application

**Application Number:** 2017-4587  
**Application:** New EP Product Chemistry-Guarantee  
**Product:** Purifitec  
**Registration Number:** 33304  
**Active ingredients (a.i.):** Device  
**PMRA Document Number:** 2943486

### Purpose of Application

The purpose of this application was to register a new copper ion generating device for the control of algae in domestic spas and swimming pools.

### Chemistry and Environmental Assessments

Chemistry and environmental assessments were not required for this application.

### Health Assessments

The Purifitec device is considered similar to the currently registered copper ion generating devices. Therefore, the toxicological profile is not expected to be significantly different and no toxicological data are required.

The concentrations of copper ions and other ions and elements in pool water resulting from the use of the device are expected to be very low, and it is not expected that exposure of handlers or swimmers to ions released from the device will increase over the currently registered copper ion generating devices. Consequently, occupational and bystander exposures to these ions and elements from the installation, operation, and/or maintenance of the device or from bathing in or accidentally ingesting pool water treated by the device are also expected to be very low.

Based on a consideration of these very low exposures and a review of published toxicity information and drinking water guidelines and standards, the risk of human health effects from the copper ions and other ions and elements released from the device into pool water is expected to be acceptable.

### Value Assessment

Efficacy data was submitted to confirm the copper output of the Purifitec copper ions releasing device. The device was able to generate between 7-9 grams of copper per day. For the maximum stated pool volume of 250,000 L, the minimum recommended rate of 0.20 ppm copper ions in

the pool water could be achieved within 5 days. As this device is for the control of algae in the pool, it is necessary to use with a registered pool or spa sanitizer. The Purifitec device was found to have acceptable value.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided and is able to support the registration of the Purifitec device.

## References

### Studies/Information Provided by Applicant/Registrant

<b>PMRA Document Number</b>	<b>Reference</b>
2843977	2017, Rapport d'analyse de la production de l'ionisateur de cuivre Purifitec, DACO: 10.2.3
2843978	2018, Alimentation électrique, DACO: 10.6
2933238	2018, Test de production Argent, DACO: 5.2

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2019

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.