

## Evaluation Report for Category B, Subcategory 2.3 Application

**Application Number:** 2009-2783  
**Application:** B.2.3 - New EP Product Chemistry-Identity of Formulants  
**Product:** Maquat 4450 CTI  
**Registration Number:** 29913  
**Active ingredients (a.i.):** Didecyl Dimethyl Ammonium Chloride  
**PMRA Document Number :** 1828393

### Purpose of Application

The purpose of this application was to register a new end-use product, Maquat 4450-CTI, which involves minor formulation changes to the currently registered Maquat 4450-CT (Registration Number 29199).

### Chemistry Assessment

Maquat 4450-CTI is a solution containing the active ingredient didecyl dimethyl ammonium chloride at a minimum concentration of 50%. This product has a density of 0.8507 g/mL and pH of 6-8. The chemistry requirements for Maquat 4450-CTI have been completed.

### Health Assessments

The formulation of Maquat 4450-CTI does not reveal a toxicological profile outside of what is currently registered in Canada.

A health assessment has been conducted for Maquat 4450-CTI, containing 50% didecyl dimethyl ammonium chloride. It is not expected that exposure to mixer/loader/applicator and post-application workers will increase over the exposure from the currently registered uses.

### Environmental Assessment

An environmental assessment was not conducted for this application because no additional environmental data were required to support the registration of Maquat 4450-CTI. As isopropyl alcohol is a List 4B formulant, the PMRA does not consider the proposed formulation change of water to isopropyl alcohol to pose an increased risk to the environment.

## **Value Assessment**

A new value assessment was not required as didecyldimethyl ammonium chloride is currently registered for use in cooling towers and oil field water flood systems, at the same label rates as Maquat 4450 CTI. The differences in formulation of Maquat 4450 CTI compared to the registered product Maquat 4450 CT, are not expected to have an impact on the efficacy of the proposed product.

## **Conclusion**

The PMRA has completed an assessment of all available information and was able to support to registration of Maquat 4450-CTI.

## **References**

- 1785392 2009, Product and applicant identification, DACO: 3.1.1,3.1.2
- 1785393 2009, DACO 3.2.1 Description of Starting Materials. DACO 3.3.2 Establishing Certified Limits DACO 3.4.1, Enforcement analytical Method, DACO: 3.2.1,3.3.1,3.3.2,3.4.1 CBI
- 1785394 2007, Physical and Chemical characteristics of Maquat 4450-CT, DACO: 3.5.11,3.5.6,3.5.7,3.5.8,3.5.9 CBI
- 1785396 2008, Physical and Chemical characteristics of Maquat 4450-CT, DACO: 3.5.10,3.5.14 CBI
- 1785397 2009, DACO 3.5.12 Explodability DACO, 3.5.13 Miscibility, DACO 3.5.15 Dielectric Breakdown Voltage, DACO: 3.5.12,3.5.13,3.5.15, CBI
- 1847276 2010, Clarification Response, DACO: 0.8.1

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2010

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.