

## Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

**Application Number:** 2016-2197  
**Application:** B.1.1: New Source Same Registrant  
 B.1.3: New Specifications  
**Product:** Kathon 886 Technical Microbicide  
**Registration Number:** 21799  
**Active ingredients (a.i.):** 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one  
**PMRA Document Number:** 2733039

### Purpose of Application

The purpose of this application was to register a new source for Kathon 886 Technical Microbicide.

### Chemistry Assessment

Accepted Names: Methylchloroisothiazolinone / Methylisothiazolinone  
 IUPAC\* Chemical Names: 5-Chloro-2-methyl-3(2H) isothiazolone / 2-Methyl-3(2H)isothiazolone  
 CAS† Chemical Names: 5-Chloro-2-methyl-4-isothiazolin-3-one / 2-Methyl-4-isothiazolin-3-one

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Kathon 886 Technical Microbicide has the following properties:

Property	Result
Colour and physical state	Pale yellow to amber liquid
Nominal concentration	10.5% of 5-chloro-2-methyl-4-isothiazolin-3-one 3.5% of 2-methyl-4-isothiazolin-3-one
Odour	Pungent
Density	1.296 g/mL
Vapour pressure	IST 1.8 x 10 <sup>-2</sup> Torr (2.4 Pa) ISL 6.2 x 10 <sup>-2</sup> Torr (8.2 Pa)
pH	1.9

<b>Property</b>	<b>Result</b>
Solubility in water	Completely soluble (product is an aqueous ISP)
n-Octanol/water partition coefficient	<u>active</u> <u>log Kow</u> IST                                0.401 ISL                                - 0.486

The required chemistry data for Kathon 886 Technical Microbicide have been provided, reviewed, and found to be acceptable.

### **Health, Environmental and Value Assessments**

Health, environmental and value assessments were not required for this application.

### **Conclusion**

The PMRA has reviewed the information provided in support of a new source for Kathon 886 Technical Microbicide. Based on this review, the new source of Kathon 886 Technical Microbicide is acceptable for registration.

## References

- 2635402 2016, 2.1\_Applicants Name and Address\_13Apr2016, DACO: 2.1  
2635403 2016, 2.2\_Manufacturers Name and Address\_13Apr2016, DACO: 2.2 CBI  
2635404 2016, GLP-2016-025 Kathon 886F [CBI removed] Product Chemistry, DACO:  
2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2 CBI  
2635405 2016, 2.12.1 Establishing Certified Limits-13Apr2016, DACO: 2.12.1 CBI  
2635406 2016, 2.13.3\_Kathon 886F [CBI removed]\_Five-Lot Analysis\_Dow\_Report GLP-  
2016-004, DACO: 2.13.3 CBI

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.