

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

**Application Number:** 2017-2588  
**Application:** New TGAI, New Source and Specifications – same registrant  
**Product:** Kathon MVF Industrial Microbicide  
**Registration Number:** 32936  
**Active ingredients (a.i.):** 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one  
**PMRA Document Number:** 2808993

### Purpose of Application

The purpose of this application was to register a new TGAI (Kathon MVF Industrial Microbicide) as a new source of 2-methyl-4-isothiazolin-3-one and 5-chloro-2-methyl-4-isothiazoline-3-one.

### Chemistry Assessment

Accepted Names: Methylchloroisothiazolinone / Methylisothiazolinone  
 IUPAC\* Chemical Names: 5-Chloro-2-methyl-3(2H)isothiazolone / 2-Methyl-3(2H)isothiazolone [ISL]  
 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 MVF Industrial Microbicide has the following properties:

Property	Result
Colour and physical state	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
Specific Gravity	1.269 at 20°C
Vapour pressure at 25°C	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	4.05

Property	Result
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 MVF Industrial 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 Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of Kathon MVF Industrial Microbicide.

## References

### PMRA

#### Document

Number	Reference
2765087	2017, Applicants Name and Office Address_11May2017, DACO: 2.1
2765088	2017, Manufacturing Methods for the TGAI_11May2017, DACO: 2.11 CBI
2765089	2017, Manufacturers Information, DACO: 2.2
2765090	2016, Product Chemistry Report GLP-2016-028, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2 CBI

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