



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2006-7817
Application: Category B.1.1 (New site by same registrant)
Product: Kathon 886 Technical Microbiocide
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: 1576410

Background

This source of 5-chloro-2-methyl-4-isothiazolin-3-one (IST) and 2-methyl-4-isothiazolin-3-one (ISL) (Reg. No. 21799), containing 5-chloro-2-methyl-4-isothiazolin-3-one at 10.5 % nominal and 2-methyl-4-isothiazolin-3-one at 3.5 % nominal was first registered in 1990. The two active ingredients were subject to re-evaluation under submissions 2003-1365 (IST) and 2003-1364 (ISL) respectively, and were deemed acceptable for continued registration under RRD2005-11.

Purpose of Application

The purpose of this category B 1.1-S-A-TGAI submission is to register a new site of production of the ISP by a current registrant.

Chemistry Assessment

Common Names: IST: Methylchloroisothiazolinone
ISL: Methylisothiazolinone

Chemical Names: IST: 5-Chloro-2-methyl-4-isothiazolin-3-one
ISL: 2-Methyl-4-isothiazolin-3-one

Kathon 886 Technical Microbiocide Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Pale yellow to amber liquid
Nominal concentration	IST: 10.5 % ISL: 3.5 %
Odour	Pungent
Density	1.30 g / mL
Vapour pressure	IST: 2.4 Pa ISL: 8.2 Pa
pH	1.9
Solubility in water	completely soluble
<i>n</i> -Octanol–water partition coefficient	IST: 0.401 ISL: -0.486

Health Assessments

The health risk profile of this source of Kathon 886 Technical Microbiocide is expected to be similar to that of the original registered source of Kathon 886 Technical Microbiocide.

Environmental Assessment

The environmental risk profile of this source of Kathon 886 Technical Microbiocide is expected to be similar to that of the original registered source of Kathon 886 Technical Microbiocide..

Value Assessment

A value assessment is not required for an ISP.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that based on the three criteria for chemical equivalence, the proposed ISP is chemically equivalent to the ISP registered under PCP #21799.

References

Chemistry Assessment

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- 1557426 1993, Characterization of Test Substance: Kathon 886F, an MUP, to be Used for Submission to Regulatory Agencies in Europe, Biocides Technical Report No. 93-30, DACO: 2.14.12
- 1558169 1990, Technical Chemistry file ISL-ROJ-1/IST-ROI-4. Octanol Water Partitioning Results, Appendix I and II Octanol/Water Partition Coefficient for RH-573 and RH-651., 34-90-65;34-90-68, DACO: 2.14.11 CBI
- 1568227 2005, Kathon 886 MW Biocide: Two Year Ambient Temperature Storage Stability, 0616/034-D2149, DACO: 2.14.14 CBI

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