



Evaluation Report for Category B.4.1 Application

Application Number: 2008-2881
Application: Conversion to full without consultation
Product: Kathon 287 Technical Microbicide
Registration Number: 27418
Active ingredients (a.i.): 4,5-dichloro-2-N-octyl-3(2H)-isothiazolone, ISZ
PMRA Document Number : 2391576

Purpose of Application

The purpose of this application was to convert the registration of Kathon 287 Technical Microbicide from conditional to full registration. The conditions for fulfillment included the experimentally determined octanol / water partition coefficients, analytical methodologies for detection of the active ingredient and its transformation products, determination of bioaccumulation of the transformation products in fish and operation trials conducted in an operating cooling tower.

Chemistry Assessment

The chemistry data for both the technical and the end-use product were previously assessed and found to be complete.

Health Assessments

No health assessments were required for this application.

Environmental Assessment

The requested analytical methodology for the detection of 4,5-dichloro-2-n-octyl-3(2h)-isothiazolone and octanol / water partition coefficients were provided. The Log K_{ow} ranged from 1.5 to 3.15, indicating that major transformation products should not bioaccumulate. Based on the original risk assessment and this new information, residues of Kathon 287 Technical Microbicide are not expected to be persistent or to bioaccumulate and, following the accepted use pattern, they will be diluted and degraded through the water treatment system. Consequently, the environmental exposure to the active ingredient or its transformation products is not expected to pose environmental concerns.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Kathon 287 Technical Microbicide, and has found the information sufficient to support the conversion to full registration.

References

PMRA	Reference
1621341	2007, QSAR Estimated values for DCOIT Metabolites, DACO: 2.14.11 CBI
1621342	2004, Validation of CIS Analytical Methods Numbered 03-83-01 and 04-87-01 to determine Active Ingredient (AI) 4,5 dichloro-2-n-octyl-4-isothiazolin-3-one (DCOIT or RH-287) in Soil Sediment samples (respectively), DACO: 8.2.2.2 CBI
1621343	2003, Test method to determine 2,4 Dichloro-n-octyl-isothiazolone (DCOIT) in Drinking, Surface and Sea Water, DACO: 8.2.2.3 CBI
1621344	2003, Test method to determine 2,4 Dichloro-n-octyl-isothiazolone (DCOIT) in Fish and Shellfish, DACO: 8.2.2.4 CBI

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