Evaluation Report for Category B.4.1 Application

Application Number: 2008-3597
Application: Conversion to full without consultation
Product: Klarix 4000 Industrial Microbicide
Registration Number: 27673
Active ingredients (a.i.): 4,5-dichloro-2-n-octyl-3(2h)-isothiazolone, ISZ
PMRA Document Number : 2297481

Purpose of Application

The purpose of this application was to convert the registration of Klarix 4000 Industrial Microbicide from conditional to full registration. The conditions for fulfillment included the results of storage stability data and corrosion characteristics and the conversion to full registration of the technical active ingredient, Kathon 287 Technical Microbicide (Registration Number 27418).

Chemistry Assessment

The chemistry data for both the technical and the end-use product were previously assessed and found to be complete with no chemistry conditions of registration.

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 the octanol / water partition coefficients for the major transformation products were provided were provided. They range 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 proposed use pattern, they will be diluted and degraded through the water treatment system. Consequently, the environmental exposure to the end use product or its transformation products is not expected to pose environmental concerns.

Value Assessment

Laboratory and operational studies were conducted to evaluate the ability of Klarix 4000 Industrial Microbiocide to reduce microbial activity in recirculating process waters. The laboratory trial was conducted using a wide variety of microorganisms typical of the microbial population in cooling water. The operational study demonstrated that the product concentration found effective in laboratory settings were still effective under real-use conditions. The data

demonstrated that Klarix 4000 Industrial Microbiocide is effective at reducing bacterial, fungal and algal counts under representative use conditions.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Klarix 4000 Industrial Microbicide, and has found the information sufficient to support the conversion to full registration.

References

PMRA document number	Reference
1528237	2007, The Antimicrobial Efficacy of the Active Ingredient Dichloro-octylisothiazolinone (DCOIT) in Klarix 4000 Microbicide "Minimum Inhibitory Concentrations (MIC) Studies versus Algae, Fungi, and Bacteria", DACO: 10.2.3.3 CBI
1189398	1998, Klarix 4000 Microbicide for Industrial Recirculating Water Cooling Towers, Paper Mill Systems, Pulp Mill Systems, Dispersed Pigments Preservation, Air Washer Systems. DACO: 10.2.3.3

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