Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.2 Application

Application Number: 2021-4001
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data Policy – Equivalency/Data Compensation Assessment
Product: PurDOX BCD
Registration Number: 34856
Active ingredient (a.i.): Sodium Chlorate
PMRA Document Number: 3437224

Purpose of Application

The purpose of this application was to register PurDOX BCD, an end-use product for use in closed chlorine dioxide generators to control microorganisms in labelled industrial process fluids, based on a registered precedent product.

Chemistry Assessment

PurDOX BCD is formulated as a solution containing sodium chlorate at a concentration of 40.0%. This end-use product has a relative density of 1.387 and pH of 4.47. The required chemistry data for PurDOX BCD have been provided, reviewed and found to be acceptable.

Health Assessments

PurDOX BCD is considered to be of low toxicity via the oral and dermal routes and of slight acute toxicity via the inhalation route. It is minimally irritating to the skin, slightly irritating to the eyes, and is not considered a dermal sensitizer.

The registered use pattern of PurDOX BCD is identical to the registered use pattern of the precedent product. Therefore, potential exposure for mixers, loaders, applicators, bystanders and postapplication workers is not expected to exceed the current exposure to the registered products containing this active ingredient. No health risks of concern are expected for workers and bystanders when label directions, precautions and restrictions are followed.

A dietary exposure assessment was not required for this application.

Environmental Assessment

The use of PurDOX BCD as a precursor chemical solution used in closed system chlorine dioxide generators to control microorganisms in recirculating cooling systems, pulp and paper mills process waster, and pulp and paper white water influent water falls within the currently registered use pattern of precedent products containing sodium chlorate. The

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environmental risks associated with the use of PurDOX BCD are acceptable when the product is used according to the label directions.

Value Assessment

A comparison of the formulation of PurDOX BCD to the precedent product, and the subsequent comparison of the registered use pattern, demonstrated that the differences between the two formulations are not expected to have an impact on the product's efficacy.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of PurDOX BCD.

References

PMRA Document Number	Reference
3260408	2020, PurDOX BCD: Preliminary Analysis, DACO: 3.4 CBI
3260409	2017, Physical and Chemical Properties of PurDOX-1: Color, Physical State, Odor, Oxidation/Reduction, Flammability, Storage Stability, Corrosion Characteristics, pH, Viscosity, Density, DACO: 3.5 CBI
3260410	2021, Supplemental PurDOX BCD Chemical Equivalency Analysis, DACO: 3.7 CBI
3336568	2022, PurDOX BCD Part 3.2: Formulation Process, DACO: 3.2 CBI
3336569	2022, PurDOX BCD: Enforcement Analytical Method, DACO: 3.4.1 CBI