

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.12 Application

Application Number: 2012-1086
Application: B.2.1 (New EP Product chemistry – guarantee)
B.2.3 (New EP Product chemistry – identity of formulants)
B.2.4 (New EP Product chemistry – proportion of formulants)
B.3.12 (New Product labels – new site or host)
Product: Acticide LA 1209 Microbiocide Liquid
Registration Number: 31740
Active ingredients (a.i.): bronopol, 2-methyl-4-isothiazolin-3-one, and 5-chloro-2-methyl-4-isothiazolin-3-one
PMRA Document Number : 2211236

Purpose of Application

The purpose of this application was to register Acticide LA 1209 Microbiocide Liquid, a new material preservative for the in-can preservation of a number of aqueous-based materials.

Chemistry Assessment

Acticide LA 1209 Microbiocide Liquid is formulated as a solution containing bronopol at 8.8% minimum, 2-methyl-4-isothiazolin-3-one at 0.28% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.84%. This end-use product has a density of 1.06 g/cm³ and pH of 5.3. The chemistry requirements for this product are complete.

Health Assessments

Acticide LA 1209 Microbiocide Liquid is of slight acute toxicity by the oral and inhalation routes. It is of low acute toxicity by dermal route. It is corrosive to the eyes and skin and is considered a skin sensitizer.

The use of the commercial end-use product Acticide LA 1209 Microbiocide Liquid in aqueous polymer emulsions/solutions, aqueous paints and coatings, adhesives, pesticide products, inks/ink components, aqueous liquid and semi-solid building materials, dispersed pigments/mineral slurries, liquid household consumer, industrial and janitorial products, and industrial wash waters is not expected to result in an increase in occupational, residential and bystander exposures over the registered uses of bronopol, 2-methyl-4-isothiazolin-3-one, and 5-chloro-2-methyl-4-isothiazolin-3-one. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

No increased risk to the environment from the use pattern on the Acticide LA 1209 Microbiocide

Liquid label is anticipated; nor will this new use pattern significantly increase environmental exposure to the active ingredients. Existing environmental label statements are expected to mitigate known risks.

Value Assessment

Data from seventeen laboratory trials were provided testing a broad range of different aqueous-based materials. The studies were scientifically valid and representative of the uses. Acticide LA 1209 Microbiocide Liquid was found to be an effective preservative in these materials against bacteria, surface fungi and yeast.

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 the end-use product Acticide LA 1209 Microbiocide Liquid as a new material preservative for the in-can preservation of a number of aqueous-based materials.

References

PMRA Document Number	Reference
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2169919	2010, Determination of 2-Bromo-2-nitro-1,3-propanediol (Bronopol), DACO 3.4.1
2169921	2011, Determination of 5-Chloro-2-methylisothiazolin-3-one (CIT), DACO 3.4.1
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ISSN: 1911-8082

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