

Evaluation Report for Category B, Subcategory 2.1, 3.1, 3.12 Application

Application Number: 2018-5327
Application: Changes to End-use Product: Product Chemistry – Guarantee;
Changes to Product Labels: Application Rate Increase, New Site
Product: Bioban (TM) O 45 Antimicrobial
Registration Number: 23955
Active ingredient (a.i.): 2-n-octyl-4-isothiazolin-3-one
PMRA Document Number: 3059215

Purpose of Application

The purpose of this application was to add the use in coatings, and to increase the use rate in building materials, aqueous adhesives and tackifier for Bioban (TM) O 45 Antimicrobial, a material preservative product.

Chemistry Assessment

Bioban (TM) O 45 Antimicrobial is formulated as a solution containing 2-n-octyl-4-isothiazolin-3-one at a concentration of 45%. This end-use product has a density of 1.03 g/mL and pH of 2.4 (10 % aq soln.). The required chemistry data for Bioban (TM) O 45 Antimicrobial have been fulfilled.

Health Assessments

As no new toxicology studies were provided and as the formulation of the product did not change, a toxicological evaluation was not undertaken.

A quantitative risk assessment was conducted for primary handlers (mixers/loaders) and secondary handlers (professionals and residential) applying 2-n-octyl-4-isothiazolin-3-one - treated paints/coatings and building materials. No risks of concern were identified when primary handlers follow label directions, including using closed transfer systems in manufacturing facilities, and when professional painters applying paint using an airless sprayer wear additional personal protective equipment, coupled with an outreach/stewardship program. For secondary handlers (professional and residential) applying building materials treated at the maximum label rate, no risks of concern were identified.

A dietary exposure assessment was not required for this application.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to add the use on coatings, and to increase the use rate in caulks, sealants, aqueous emulsions and adhesives to the label of Bioban (TM) O 45 Antimicrobial.

References

PMRA

Document

Number	Reference
2296582	2012, A Study for Measurement of Potential Dermal and Inhalation Exposure, DACO: 5.4
2849401	2018, A Study for Measurement of Potential Dermal and Inhalation Exposure During Application of a Latex Paint Containing an Antimicrobial Pesticide Product Using a Brush and Roller for Indoor Surface Painting, DACO: 5.4
3003682	2019, A Study for Measurement of Potential Dermal and Inhalation Exposure During the Application of Paint Containing and Antimicrobial using an Airless Sprayer, DACO: 5.6
2967976	2019, Analysis of Propiconazole Used as an In-Can Paint Preservative in Wall Wipe Samples, DACO: 5.4
2883917	2018, Analysis of 1,2-Benzisothiazolin-3-one (BIT) in Background Wall Wipe Samples from Indoor Wall Surfaces Painted with Latex Paint Using a Brush and Roller, May 10, 2018, DACO: 5.6
2992785	2017, Study Design: A Study for Measurement of Potential Dermal and Inhalation Exposure During the Application of Paint Containing an Antimicrobial using an Airless Sprayer, DACO: 0.7.1
3005439	1990, 14C-RH893: Effect of a Vehicle, Formulation or Occlusion on Dermal Bioavailability in Male Guinea Pigs, DACO: 4.7.7 CBI

Additional Information Considered

2409268	United States Environmental Protection Agency, 2012, Standard Operating Procedures for Residential Pesticide Exposure Assessment, DACO: 12.5.5
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