

Evaluation Report for Category B, Subcategory 3.1 Application

Application Number: 2019-2362
Application: Changes to Product Labels - Application Rate Increase
Product: Mergal MC14 Microbiocide
Registration Number: 31233
Active ingredients (a.i.): 2-methyl-4-isothiazolin-3-one and
5-chloro-2-methyl-4-isothiazolin-3-one
PMRA Document Number: 3062856

Purpose of Application

The purpose of this application is to increase the use rate of Mergal MC14 Microbiocide as a material preservative in adhesives, building materials, dispersed pigments, metalworking fluids, lattices, paints, coatings, and slurries.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The toxicology studies submitted were evaluated. It was determined that this new information would not impact the previously established toxicology reference value for use in the quantitative dermal sensitization risk assessment for this combination of active ingredients.

Dermal sensitization risks of concern were not identified for secondary handlers (professionals and residential) applying paints/coatings and building materials treated at the maximum application rates. However, risks were identified for workers handling metalworking fluids. Risks for workers were acceptable up to a maximum rate of 15 ppm for 2-methyl-4-isothiazolin-3-one and 5-chloro-2-methyl-4-isothiazolin-3-one in metalworking fluids.

A dietary exposure assessment was not required for this application.

Environmental Assessment

No new environmental data were submitted to support these submissions and none are required. No additional risk to the environment is expected from the increase in the maximum application rates for Mergal MC14 Microbiocide.

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 and has found the information sufficient to increase the use rate of MC14 Microbiocide as a material preservative in adhesives, building materials, dispersed pigments, metalworking fluids, lattices, paints, coatings, and slurries.

References

PMRA Document Number	Reference
2873262	1984, Human Repeat Insult Patch Test with Kathon CG 100ppm active ingredient, DACO: 4.6.6
2873263	1984, Repeated Insult Patch Test with Kathon CG 50ppm Active Ingredient, DACO: 4.6.6

Additional Information - Published

PMRA Document Number	Reference
2322946	M.A. Jayjock, G.A. Hazelton, P.G. Lewis, M.F. Wooder, 1996, Formulation effect on the dermal bioavailability of isothiazolone biocide, DACO: 4.5.9, 5.8
2703752	2011, US EPA Exposure Factor Handbook, DACO: 5.14

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