

Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2020-2011
Application: New End-use Product (Product Chemistry) - Guarantee
Product: Preventol P 91
Registration Number: 34342
Active ingredients (a.i.): Bronopol, 2-methyl-4-isothiazolin-3-one, and 5-chloro-2-methyl-4-isothiazolin-3-one
PMRA Document Number : 3286373

Purpose of Application

The purpose of this application was to register a new material preservative end-use product, Preventol P 91, for use in adhesives, building materials, concrete admixtures, paints/coatings and polymer emulsions.

Chemistry Assessment

Preventol P 91 is formulated as a solution containing bronopol at 9.97%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.84%, and 2-methyl-4-isothiazolin-3-one at 0.27%. This end-use product has a density of 1.069 g/mL and pH of 4.42. The required chemistry data for Preventol P 91 have been provided, reviewed and found to be acceptable.

Health Assessments

Preventol P 91 is moderately acutely toxic by the oral route and of slight acute toxicity via the inhalation route. It is of low acute toxicity by the dermal route. It is corrosive to the eye, severe skin irritant, and considered as potential skin sensitizer.

The occupational exposures and risks from Preventol P 91 as a material preservative were assessed. No risks of concern are expected from the new product provided workers follow the label directions and wear the personal protective equipment identified on the label.

A dietary exposure assessment was not required for this application.

Environmental Assessment

When used in accordance with label directions, the environmental risks associated with the registration of Preventol P 91 as a material preservative are acceptable.

Value Assessment

Efficacy data demonstrating the ability of Preventol P 91 to control bacteria and fungi in adhesives, building materials, concrete admixtures, paints/coatings and polymer emulsions was reviewed. Overall, the data submitted demonstrated that Preventol P 91 has acceptable value.

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 Preventol P 91.

References

PMRA Document Number	Reference
3123811	2020, Preventol P 91 Value Summary, DACO: 10.2.1
3123806	2020, Microbiological Preservation Report for Preventol P-91 in Adhesives, DACO: 10.2.3.2
3123807	2020, Microbiological Preservation Report for Preventol P-91 in Building Materials, DACO: 10.2.3.2
3123808	2020, Microbiological Preservation Report for Preventol P-91 in Concrete Admixtures, DACO: 10.2.3.2
3123809	2020, Microbiological Preservation Report for Preventol P-91 in Paints & Coatings, DACO: 10.2.3.2
3123810	2020, Microbiological Preservation Report for Preventol P-91 in Polymer Emulsions, DACO: 10.2.3.2
3123801	2008, Physical and Chemical Characteristics: Colar, Physical State, Odor, pH, Viscosity, and Density/Relative Density, DACO: 3.5.1, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.9
3123802	2009, Storage Stability and Corrosion Characteristics, DACO: 3.5.10, 3.5.14
3123804	2020, Preventol P 91 Product Chemistry Supplement to Support PMRA Registration, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.5.4, 3.5.5 CBI
3123805	2020, Preventol P 91 Product Chemistry and Acute Toxicity Waiver Requests to Support PMRA Registration, DACO: 3.5.11, 3.5.12, 3.5.13, 3.5.15, 3.5.8,4.6.6
3283910	2021, Storage Stability and Corrosion Characteristics EXP P 117-91, DACO: 3.4.1,3.5.10,3.5.14 CBI
3123797	2008, Acute Oral Toxicity Up And Down Procedure In Rats, DACO: 4.6.1
3123795	2008, Acute Dermal Toxicity Study in Rats - Limit Test, DACO: 4.6.2
3123796	2008, Acute Inhalation Toxicity Study in Rats, DACO: 4.6.3
3123799	2008, Primary Eye Irritation Study in Rabbits, DACO: 4.6.4

PMRA Document Number	Reference
3123800	2008, Primary Skin Irritation Study in Rabbits, DACO: 4.6.5

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