

## Evaluation Report for Category B, Subcategories 2.1, 2.3, 2.4, 2.6, 3.1, 3.12 Application

**Application Number:** 2020-3535  
**Application:** New Product Chemistry-Guarantee, Identity of Formulants, Proportion of Formulants, New Combination of Technical Grade Active Ingredients  
New Product Labels-Application Rate Increase or Decrease, New Site or Host  
**Product:** Preventol BM 5  
**Registration Number:** 34643  
**Active ingredients (a.i.):** 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one  
**PMRA Document Number :** 3391508

### Purpose of Application

The purpose of this application was to register a new end use product, Preventol BM 5, for use as a material preservative.

### Chemistry Assessment

Preventol BM 5 is formulated as a solution containing 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one, both at a concentration of 2.5 %. This end-use product has a density of 1.017 g/mL and pH of 8.33. The required chemistry data for Preventol BM 5 have been provided, reviewed and found to be acceptable.

### Health Assessments

Preventol BM 5 is considered to be of moderate acute toxicity via the oral and inhalation routes, and of low acute toxicity via the dermal route. It is considered to be corrosive to the eyes, mildly irritating to the skin and a potential dermal sensitizer.

The exposures and risks from Preventol BM 5 containing 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one as material preservatives were assessed. No risks of concern are expected from the product as long as 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

The use pattern for Preventol BM 5 is within those of currently registered precedent products. The environmental risks are acceptable for use of Preventol BM 5 as a material preservative in

paints, coatings, adhesives, polymer latex emulsions, household, institutional and industrial cleaning products, and pesticide products in commercial uses when used in accordance with label directions.

## **Value Assessment**

Efficacy data demonstrating the ability of Preventol BM 5 to control bacteria and fungi in adhesive, paints and coatings, polymer latex emulsions, household, institutional, and industrial cleaning products, and pesticide products was reviewed. Overall, the data submitted and subsequent review was sufficient to demonstrate that the product has acceptable value.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of Preventol BM 5.

## **References**

### **PMRA**

#### **Document**

<b>Number</b>	<b>Reference</b>
3144076	2020, Preventol BM 5 Product Chemistry Supplement to Support PMRA Registration, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.2,3.2.1,3.2.2,3.2.3,3.3.1,3.5.4,3.5.5 CBI
3144078	2020, Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH, Viscosity and Density/Relative Density, DACO: 3.5.1, 3.5.2,3.5.3,3.5.6,3.5.7,3.5.8,3.5.9
3144079	2020, Preventol BM 5 Product Chemistry Waiver Requests to Support PMRA Registration, DACO: 3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15
3238244	2021, Preventol BM 5 Enforcement Analytical Method, DACO: 3.4.1 CBI
3276361	2021, Preventol BM 5 Accelerated Storage Stability with Corrosion Characteristics, DACO: 3.5.10,3.5.14
3144080	2020, Preventol BM 5 Acute Toxicity Bridging Request to Support PMRA Registration, DACO: 4.6
3144082	2018, Acute Oral Toxicity Study of Preventol BM 75 in Rats, DACO: 4.6.1
3144083	2018, Acute Dermal Toxicity Study of Preventol BM 75 in Rats, DACO: 4.6.2
3144084	2018, Acute Inhalation Toxicity Study of Preventol BM 75 in Rats, DACO: 4.6.3
3144085	2018, Acute Eye Irritation Study of Preventol BM 75 in Rabbits, DACO: 4.6.4
3144087	2018, Acute Dermal Irritation Study of Preventol BM 75 in Rabbits, DACO: 4.6.5
3144088	2018, Skin Sensitisation Study of Preventol BM 75 by Local Lymph Node Assay, DACO: 4.6.6
3144070	2020, Preventol BM 5 Value Summary, DACO: 10.1,10.2.1,10.2.2,10.2.3.2(A),10.3.2
3144071	2020, Microbial Preservative Report for: Preventol BM5 in Adhesives, DACO:10.2.3.2(A)
3144072	2020, Microbial Preservative Report for: Preventol BM5 in HI&I, DACO: 10.2.3.2(A)

- 3144073 2020, Microbial Preservative Report for: Preventol BM5 in Paints and Coatings, DACO: 10.2.3.2(A)
- 3144074 2020, Microbial Preservative Report for: Preventol BM5 in Polymer Emulsions, DACO: 10.2.3.2(A)
- 3144075 2020, Microbial Preservative Report for: Preventol BM5 in Pesticide Products, DACO: 10.2.3.2(A)

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