

## **Evaluation Report for Category B, Subcategory 1.2 Application**

Application Number:2006-0458Application:B.1.2Product:Mergal BIT PasteRegistration Number:1,2-benzisothiazolin-3-one (BZZ)PMRA Document Number:1771055

#### Background

The original source of 1,2-benzisothiazolin-3-one technical grade active ingredient, "Proxel CRL Microbiostat Solution" (Reg. 11822) was first registered in 1973.

#### **Purpose of Application**

The purpose of this application is to register a new technical source of 1,2-benzisothiazolin-3-one.

#### **Chemistry Assessment**

Common Name:	1,2-benzisothiazolin-3-one
Chemical Name:	1,2-benzisothiazol-3(2H)-one

filling and the fill of the following properties.	Mergal BIT	Paste has	the following	properties:
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Property	Result
Colour and physical state	Off-white paste
Nominal concentration	72.00%
Odour	None
Density	$0.58 - 0.71 \text{ g/cm}^3$
Vapour pressure	0.15 mPa
pН	4.25 for a 1% solution
Solubility in water	1.1 mg/mL
n-Octanol/water partition coefficient	$\log K_{ow} = 1.40$



The chemistry requirements for Mergal BIT Paste have been completed.

### **Health Assessments**

A health assessment is not required for this technical grade active ingredient product.

#### **Environmental Assessment**

An environmental assessment is not required for this technical grade active ingredient product.

#### Value Assessment

A value assessment is not required for technical grade active ingredient products.

#### Conclusion

The PMRA has completed its evaluation of the subject application and has determined that Mergal BIT Paste is eligible for full registration.

#### References

#### 7.1.1 Studies/Information Provided by Applicant/Registrant

- 1135353 2006, Product Chemistry Requirements Mergal BIT Paste, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
- 1135354 Manufacturing Summary, Materials Used to Produce the Product-XBINX, Detailed Production Process Description, Discussion of Formation of Impurities - Mergal BIT Paste, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
- 1135355 Establishing Certified Limits Mergal BIT Paste, DACO: 2.12.1 CBI
- 1135356 1988, Assay of XBINX, Method 19-137 Mergal BIT Paste, DACO: 2.13.1 CBI
- 1135357 XBINX Assay by Spectrophotometry Method 19-020593, DACO: 2.13.2 CBI
- 1135358 2005, Batch Data (5 Batch Analysis). Certificate of Analysis. Confidential Attachment. Preliminary Analysis, DACO: 2.13.3 CBI
- 1135359 1994, Physical and Chemical Properties of 1,2-Benzisothiazol-3 (2H)-one (BIT) and information on Manufacturing Use Product see - Mergal BIT Paste, Physical and Chemical Characteristics: Colour, Odor, Oxidation/Reduction, Flammability, pH, and Density/Bulk
- 1135360 UV/Visible Absorption Spectra, DACO: 2.14.12 CBI
- 1135361 Samples of Analytical Standards provided upon request, DACO: 2.15 CBI
- 1135363 Impurities of Toxicological Concern Not applicable, DACO: 2.13.4 CBI
- 1326709 2006, Addendum to Product Chemistry Mergal Paste, DACO: 2.11.2 CBI
- 1326711 2006, Documentation for Canadian Registration, DACO: 2.11.3 CBI
- 1326712 2006, Batch Data-Mergal BIT Paste, DACO: 2.13.3 CBI
- 1326713 2006, Chemical & Physical Properties, DACO: 2.14 CBI
- 1485021 2007, Detailed Process Description, DACO: 2.11.3 CBI
- 1485022 2005, Preliminary Analysis, DACO: 2.13.3 CBI
- 1568440 2008, Description of Starting Materials Amendment, DACO: 2.11.2 CBI
- 1568441 2008, Batch Data Amendment, DACO: 2.13.3
- 1568442 2008, Impurities of Toxicological Concern, DACO: 2.13.4
- 1597367 2008, BIT Technical: Analysis of [CBI REMOVED], DACO: 2.13.4

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