

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2022-6617  
**Application:** Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment  
**Product:** ACTICIDE BIT 85  
**Registration Number:** 35095  
**Active ingredient (a.i.):** 1,2-benzisothiazolin-3-one  
**PMRA Document Number :** 3518541

### Purpose of Application

The purpose of this application was to register ACTICIDE BIT 85, a new source of the technical grade active ingredient 1,2-benzisothiazolin-3-one, based on a registered precedent product.

### Chemistry Assessment

Common Name: 1,2-benzisothiazolin-3-one  
IUPAC\* Chemical Name: 1,2-benzisothiazol-3(2H)-one  
CAS† Chemical Name: 1,2-benzisothiazolin-3-one

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ACTICIDE BIT 85 has the following properties:

Property	Result
Colour and physical state	Beige to brown solid
Nominal concentration	86.1%
Odour	Mild
Density	1.483 g/cm <sup>3</sup> at 20°C
Vapour pressure	0.059 mPa at 20°C
pH	3.8 at 23.6°C
Solubility in water	0.1118% at 20°C
n-Octanol/water partition coefficient	log K <sub>ow</sub> = 1.4

The required chemistry data for ACTICIDE BIT 85 have been provided, reviewed, and found to be acceptable.

## Health, Environmental and Value Assessments

Health, 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 acceptable to support the registration of ACTICIDE BIT 85.

## References

### PMRA

#### Document

Number	Reference
2925571	2018, Description of Starting Materials, DACO: 2.11.2 CBI
2925572	2018, Detailed Production Process, DACO: 2.11.3 CBI
2925573	2018, Discussion of Formation of Impurities, DACO: 2.11.4 CBI
2925583	2016, Determination of the pH value and the acidity of a 1% aqueous solution of BIT, DACO: 2.14.15,830.7000 CBI
2925588	2002, Determination of the Density of 1,2-benzisothiazol-3(2H)-one (BIT), DACO: 2.14.6 CBI
2925592	2017, Product Identity and Composition of Acticide BIT 85, DACO: 2.16 CBI
2925593	2014, Chemical Identification and Properties of BIT, DACO: 2.16
3420451	2021, Acticide BIT 85 Manufacturing Summary, DACO: 2.11.1 CBI
3420452	2021, Validation of the sample specific parameters of the analytical method for the determination of BIT in BIT 85% Big Bags, DACO: 2.13.1,2.13.2 CBI
3420453	2016, Analysis and Certification of Product Ingredients in ACTICIDE BIT 85, DACO: 2.13.3 CBI
3420454	2017, Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans Analysis of Acticide BIT, DACO: 2.13.4 CBI
3420455	2022, FINAL REPORT AMENDMENT GLP-SP-376 Analysis of [CBI Removed] in Acticide BIT, DACO: 2.13.4 CBI
3420456	2022, Completed Signature Page for the 410 page GLP Study included at DACO 2.14.4, DACO: 2.13.4 CBI

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