

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2013-0495  
**Application:** New / Changes TGAI or ISP Prod Chemistry-New Source (site) same registrant  
**Product:** Aqucar™ BP 100 MUP Water  
**Registration Number:** 28215  
**Active ingredients (a.i.):** Bronopol  
**PMRA Document Number:** 2400334

### Purpose of Application

The purpose of this application was to add two new manufacturing sites.

### Chemistry Assessment

Common Name: Bronopol  
CAS Chemical Name: 2-bromo-2-nitro-1,3-propanediol  
IUPAC Chemical Name: 2-bromo-2-nitropropane-1,3-diol

Aqucar™ BP 100 MUP Water Treatment Microbiocide Technical has the following properties:

Property	Result
Colour and physical state	White granules
Nominal concentration	99.0%
Odour	Odourless
Density	1.22 g/cm <sup>3</sup> at 23°C
Vapour pressure	4.92 x 10 <sup>-3</sup> Pa at 20°C 1.01 x 10 <sup>-2</sup> Pa at 25°C
pH	5-7 (1% solution at 20°C)
Solubility in water	338 mg/mL at 25°C
n-Octanol/water partition coefficient (K <sub>ow</sub> )	log K <sub>ow</sub> ≤ 0.3

The chemistry requirements for Aqucar™ BP 100 MUP Water Treatment Microbiocide have been fulfilled.

## **Environmental, Health and Value Assessments**

Environmental, Health and Value assessments were not required for this application.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Aquacar™ BP 100 MUP Water Treatment Microbiocide, and has found the information sufficient to add two new manufacturing sites for Bronopol.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
1133922	2000, Physical and Chemical Characteristics of BIOBAN BP-M: Color, Physical State, Odor, Stability, pH, U/V Visible Absorption, Melting Point and Bulk Density - APPENDIX A, DACO: 2.14.1,2.14.12,2.14.13,2.14.2,2.14.3,2.14.4,2.14.6 CBI
1133924	2001, Physical and Chemical Characteristics of BIOBAN BP-M: Octanol/Water Partition Coefficient and Solubility - APPENDIX B, DACO: 2.14.11,2.14.7,2.14.8 CBI
1133925	2002, Vapor Pressure of Bronopol By Knudsen-Effusion Weight Loss Method - APPENDIX C, DACO: 2.14.9 CBI
1133926	2002, Physical and Chemical Characteristics of BIOBAN BP-M: Storage Stability, DACO 2.14.14 CBI
1133916	Manufacturing Methods for the TGAI, Manufacturing Summary, Description of Starting Materials, Detailed Production Process Description, DACO: 2.11.1,2.11.2,2.11.3 CBI
1133917	2002, Establishing Certified Limits, DACO: 2.12.1 CBI
1133923	Impurities of Toxicological Concern, Boiling Point/Boiling Range and Dissociation Constant - Not applicable, DACO: 2.11.4 CBI
2268574	24P-2012-031_Bronopol [CBI Removed]_5-Lot Analysis_Dow_Report GLP-2012-042_Complete., DACO: 2.13 CBI
2268575	24P-2012-032_Bronopol [CBI Removed]_5-Lot Analysis_Dow_Report GLP-2012-045_Complete., DACO: 2.13 CBI
2268577	TM # 11-174-02 Bronopol AI., DACO: 2.13.1 CBI
2394974	24P-2012-031_Bronopol [CBI Removed]_5-Lot Analysis_Dow_Report GLP-2012-042_Complete, DACO: 2.13.1 CBI
2394975	Dow Microbial Control Test Method # 12-187-02, DACO: 2.13.1 CBI
2394976	GLP Validation of DMC Analytical Test Method # 12-187-01 for the Analysis of Impurities in Bronopol technical, DACO: 2.13.1 CBI
2394977	Response to Clarification Request of 2014-02-06, DACO: 2.13.3 CBI
2394978	Response to Clarification Request of 2014-02-06, DACO: 2.13.3 CBI

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