

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2023-0857  
**Application:** Application Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy - Equivalency/Data Compensation Assessment  
**Product:** Min-Chem BCDMH  
**Registration Number:** 35347  
**Active ingredients (a.i.):** Available chlorine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins; and available bromine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins  
**PMRA Document Number:** 3582164

### Purpose of Application

The purpose of this application was to register Min-Chem BCDMH, a new source of available chlorine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins; and available bromine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins, based on a registered precedent product.

### Chemistry Assessment

Common Name: There is no ISO approved common name for this active.  
IUPAC\* Chemical Name: 1-bromo-3-chloro-5,5-dimethylpyrrolidine-2,4-dione  
CAS† Chemical Name: 2,4-imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Min-Chem BCDMH has the following properties:

Property	Result
Colour and physical state	Bright white solid
Nominal concentration	64.5 % available bromine and 28.9 % available chlorine, both present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins
Odour	Slight chlorine odour
Density	1.12 g/mL at 20 °C
Vapour pressure	Negligible

<b>Property</b>	<b>Result</b>
pH	3.97 for 0.1% solution
Solubility in water	0.20 g / 100 g
n-Octanol/water partition coefficient	Log K <sub>ow</sub> = 0.35

The required chemistry data for Min-Chem BCDMH 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 Min-Chem BCDMH.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3496943	2023, MIN-CHEM BCDMH, Sub -2023-0857, DACO: 2.13.3
3496944	2023, Analytical Report, DACO: 2.13.3
3496945	2023, Analytical Report, DACO: 2.13.3
3568576	2024, MIN-CHEM BCDMH, Sub -2023-0857, DACO: 2.0,2.13.3

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