



## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2007-2177  
**Application:** Category B1.1-S-A-TGAI  
**Product:** Halobrom Technical Microbicide  
**Registration Number:** 23638  
**Active ingredients (a.i.):** Available bromine (present as bromo/chloro-dimethylhydantoin);  
 Available chlorine (present as bromo/chloro-dimethylhydantoin)  
**PMRA Document Number:** 1548075

### Background

The original source of bromo/chloro-dimethylhydantoin technical grade active ingredient, “Halobrom Technical Microbicide” (Reg. No. 23638), was first registered in 1994.

### Purpose of Application

The purpose of this Category B.1.1 submission is to register two new manufacturing sites by the current registrant. These new sources of technical grade active ingredient “Halobrom Technical Microbicide” (Reg. No. 23638) are intended for use in the manufacturing, formulating or repackaging.

### Chemistry Assessment

**Common Name:** No ISO approved common name  
**Chemical Name:** (a) 1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione;  
 (b) 3-bromo-1-chloro-5,5-dimethylimidazolidine-2,4-dione;  
 (c) 1,3-dibromo-5,5-dimethylimidazolidine-2,4-dione;  
 (d) 1,3-dichloro-5,5-dimethylimidazolidine-2,4-dione.

Halobrom Technical Microbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	Available bromine (present as bromo/chloro-dimethylhydantoin) 65.00%; Available chlorine (present as bromo/chloro-dimethylhydantoin) 28.95%.
Odour	faint halogenous odour

Property	Result
Specific gravity	1.8 - 2.0
Vapour pressure	Not available
pH	3.2 - 3.28 (1% solution)
Solubility in water	0.2 g/100g
n-Octanol/water partition coefficient ( $K_{ow}$ )	Not available

The chemistry requirements for Halobrom Technical Microbicide have been completed.

### Health Assessments

Health assessment is not required.

### Environmental Assessment

Environmental assessment is not required.

### Value Assessment

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

### Conclusion

The PMRA has completed an evaluation of the subject application and has determined that Halobrom Technical Microbicide is eligible for full registration.

### References

- 1395932 2007, Applicants and Manufacturers Names and Addresses, N/A, MRID: N/A, DACO: 2.1,2.2
- 1395933 2007, Transmittable Document, N/A, MRID: N/A, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9,2.15,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
- 1395934 2007, Establishing Certified Limits, N/A, MRID: N/A, DACO: 2.12.1 CBI
- 1395935 2007, Analytical Profile of Five Batches, St 09-33/Sr, MRID: N/A, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
- 1395936 2007, Analytical Profile of Five Batches, St 09-32/Sr, MRID: N/A, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI

- 1472609 Halobrom - Product Identity, Chemical and Physical Properties and Storage Stability, DACO:  
2.1,2.10,2.14.1,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.16  
,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9
- 1518700 2007, NaCl content in Bromochloro-5,5-dimethylhydantoin (BCDMH), N/A,  
MRID: N/A, DACO: 2.13.3 CBI
- 1537373 2008, Cyanides in BCDMH, N/A, MRID: N/A, DACO: 2.11.3 CBI

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