



## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2007-2933  
**Application:** Registration of a new source of TGAI by a new registrant  
**Product:** Cambrex BCDMH Tabs  
**Registration Number:** 29179  
**Active ingredients (a.i.):** 1-bromo-3-chloro-5,5-dimethylhydantoin  
**PMRA Document Number:** 1725025

### Background

The original source of 1-bromo-3-chloro-5,5-dimethylhydantoin technical grade active ingredient, "Dihalo Technical" (Reg. No. 19358) was first registered in 1986.

### Purpose of Application

The purpose of this application is to register a new technical source of BCDMH by a different registrant.

### Chemistry Assessment

**Common Name:** bromochlorodimethylhydantoin, BCDMH  
**IUPAC Chemical Name:** 1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione  
**CAS Chemical Name:** 1-bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione

Cambrex BCDMH Tabs has the following properties:

Property	Result
Colour and physical state	white powder
Nominal concentration	98.5%
Odour	faint halogen
Density	1 g/cm <sup>3</sup>
Vapour pressure	not determined
pH	no data provided
Solubility in water	2 g/l (25°C)
n-Octanol/water partition coefficient	Not feasible since the product very quickly hydrolyses in water to dimethylhydantoin and OCl <sup>-</sup> and OBr <sup>-</sup>

The chemistry requirements for Cambrex BCDMH Tabs have been completed.

## Health and Environmental Assessment

N/A

## Value assessment

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

## Conclusions

The PMRA has completed an evaluation of the subject application and has determined that Cambrex BCDMH Tabs is eligible for full registration.

## References

PMRA Document Number	Reference
1402557	2007, Cambrian Chemicals Inc, Chemisty Requirement for a TGAI, DACO: 2.0,2.1,2.10,2.11,2.11.2,2.11.3,2.11.4,2.12,2.12.1,2.12.2,2.13,2.14,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9,2.15 CBI
1402558	2007, Chemisty equation, DACO: 2.11.3 CBI

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