

## Evaluation Report for Category B, Subcategory 4.6 Application

**Application Number:** 2019-0866  
**Application:** Application to fulfill conditions of registration  
**Product:** Thion Microbicide  
**Registration Number:** 25256  
**Active ingredient (a.i.):** Dazomet  
**PMRA Document Number:** 3082697

### Purpose of Application

The purpose of this application was to fulfill chemistry requirements following the re-evaluation of the active ingredient.

### Chemistry Assessment

Common Name: dazomet  
IUPAC\* Chemical Name: 3,5-dimethyl-1,3,5-thiadiazinane-2-thione or tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione  
CAS† Chemical Name: tetrahydro-3,5-dimethyl-2*H*-1,3,5-thiadiazine-2-thione

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Thion Microbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.0%
Odour	Slight sulfurous
Density	0.53 g/cm <sup>3</sup>
Vapour pressure	1.1 mPa
pH	6-7 for a 100 ppm dilution
Solubility in water	3.5 g/L
n-Octanol/water partition coefficient	log K <sub>ow</sub> = 0.63

The required chemistry data for Thion Microbicide 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 sufficient to fulfill the requirements of registration for Thion Microbicide.

## References

### PMRA

#### Document

Number	Reference
2967218	2007, SOP No. 100-2- [PRIVACY INFO REMOVED] for Busan 1059/Thion, DACO: 2.11.1 CBI
2967219	2018, Spectral Analysis of Thion, DACO: 2.13.3 CBI
3012828	2019, Manufacturing Process for Thion - Summary Document, DACO: 2.11.1 CBI
3012829	2019, [Confidential] SOP, DACO: 2.11.1 CBI
3012830	2019, Identification of Raw Materials , DACO: 2.11.2 CBI
3012839	2018, Batch Analysis of Technical Grade Thion, DACO: 2.13.3 CBI
3075905	2020, Dazomet Mass Spectra, DACO: 2.13.2
3079226	2020, [CBI REMOVED] Mass Spectra, DACO: 2.13.2 CBI

ISSN: 1911-8082

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