

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2019-1589
Application: Changes TGAI Prod Chemistry-New Source(site) same registrant
Product: Thiabendazole Technical
Registration Number: 19065
Active ingredient (a.i.): Thiabendazole
PMRA Document Number: 3102561

Purpose of Application

The purpose of this application was to register a new source of thiabendazole for Thiabendazole Technical.

Chemistry Assessment

Common Name: Thiabendazole
 IUPAC* Chemical Name: 2-(thiazol-4-yl)-1*H*-benzimidazole
 CAS† Chemical Name: 2-(4-thiazolyl)-1*H*-benzimidazole

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Thiabendazole Technical has the following properties:

Property	Result								
Colour and physical state	Off-white solid								
Nominal concentration	99.2%								
Odour	Odourless								
Density	0.30 – 0.44 g/cm ³ at 20°C								
Vapour pressure	0.53 µPa								
Solubility in water	30 mg/L at pH = 7 & 10 160 mg/L at pH = 4								
n-Octanol/water partition coefficient	<table border="0"> <tr> <td><u>pH</u></td> <td><u>log K_{ow}</u></td> </tr> <tr> <td>4</td> <td>1.39</td> </tr> <tr> <td>7</td> <td>2.12</td> </tr> <tr> <td>10</td> <td>2.12</td> </tr> </table>	<u>pH</u>	<u>log K_{ow}</u>	4	1.39	7	2.12	10	2.12
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4	1.39								
7	2.12								
10	2.12								

The required chemistry data for Thiabendazole Technical 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 support the registration of Thiabendazole Technical.

References

PMRA Document Number	References
2983694	2019, 2.0 - Document J, DACO: 2.0,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.3,2.13.4,2.2 CBI
2983696	2019, 2.11.2 - Document H, DACO: 2.11.2 CBI
2983697	2019, 2.13.1 - Analytical Method, DACO: 2.13.1 CBI
2983698	2019, 2.13.1 - Method Validation, DACO: 2.13.1
3101561	2020, PC-NA PMRA Response (DACO 2.12) Thiabendazole Technical (Noon) 19065 SPSF impurities, DACO: 2.12 CBI

ISSN: 1911-8082

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