



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2018-3340
Application: Changes TGAI Prod Chemistry-New Source(site) same registrant
Product: Thiamethoxam Technical
Registration Number: 26665
Active ingredients (a.i.): Thiamethoxam
PMRA Document Number: 2992144

Purpose of Application

The purpose of this application was to add two new manufacturing sites to the technical grade active ingredient Thiamethoxam Technical.

Chemistry Assessment

Common Name: Thiamethoxam
IUPAC* Chemical Name: (EZ)-3-(2-chlorothiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine
CAS† Chemical Name: 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-4H-1,3,5-oxadiazin-4-imine

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Thiamethoxam Technical has the following properties:

Property	Result
Colour and physical state	Slightly cream coloured solid
Nominal concentration	99.1%
Odour	Odourless
Density	1.57 g/cm ³
Vapour pressure	2.7 × 10 ⁻⁶ mPa at 20°C 6.6 × 10 ⁻⁶ mPa at 25°C
pH	4-6 (1% in water)
Solubility in water	4.1 g/L

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = -0.13 at 25°C

The required chemistry data for Thiamethoxam 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 is able to support the two new manufacturing sites to Thiamethoxam Technical.

References

Studies/Information Provided by Applicant/Registrant

PMRA No.	Title
2905989	2018, Confidential Information - Thiamethoxam Technical (CGA293343) Document J - Product Chemistry Volume, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.2,2.13.3,2.13.4,2.2 CBI
2905990	2018, Confidential Information - Thiamethoxam Technical (CGA293343); Document H - Product Chemistry Volume, DACO: 2.11.2 CBI
2905991	2018, Analytical Method SA-1/2 Thiamethoxam Tech. Assay by [CBI Removed], DACO: 2.13.1 CBI
2905992	2014, Thiamethoxam Validation of Analytical Method SA-1/2, DACO: 2.13.1 CBI

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