

# **Evaluation Report for Category B, Subcategory 1.1 Application**

**Application Number:** 2021-0517

**Application:** New TGAI Product Chemistry-New Source (site) same registrant

**Product:** Thiamethoxam Technical

**Registration Number:** 26665

**Active ingredient (a.i.):** Thiamethoxam

PMRA Document Number: 3351030

# **Purpose of Application**

The purpose of this application was to add new manufacturing sites for the technical product, Thiamethoxam Technical.

## **Chemistry Assessment**

Common Name: Thiamethoxam

IUPAC\* Chemical Name: (EZ)-3-[(2-chlorothiazol-5-yl)methyl]-5-methyl-N-nitro-

1,3,5-oxadiazinan-4-imine

CAS† Chemical Name: 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-*N*-

nitro-4*H*-1,3,5-oxadiazin-4-imine

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 <sup>3</sup>
Vapour pressure	$2.7 \times 10^{-6}$ mPa at 20 °C
	$6.6 \times 10^{-6}$ mPa at 25 °C
рН	4-6 (1% in water)
Solubility in water	4.1 g/L



<sup>\*</sup> International Union of Pure and Applied Chemistry

<sup>†</sup> Chemical Abstracts Service

Property	Result
n-Octanol/water partition coefficient	$\log K_{\rm ow} = -0.13$ 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 has found the information sufficient to support the addition of the new manufacturing sites for Thiamethoxam Technical.

# **Additional Information Being Requested**

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production at the approved site will be required as post-market information after registration.

### References

### **PMRA Document**

Number	Reference
3197696	2021, Thiamethoxam Technical (PCP 26665) Batch Data, DACO: 2.13.3 CBI
3197697	2021, Thiamethoxam Technical (CGA293343) - Manufacturing Process Description and Supporting Data, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12, 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.0, 2.0 GPL
3346823	2.6, 2.7, 2.8, 2.9 CBI 2022, Confidential Business Information - Thiamethoxam Technical, DACO: 2.11.3 CBI

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