



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2014-5844
Application: New / Changes TGAI or ISP Prod Chemistry-New Source (site) same registrant
Product: Pymetrozine technical
Registration Number: 27272
Active ingredients (a.i.): Pymetrozine
PMRA Document Number: 2568749

Purpose of Application

The purpose of this application was to register a new source by the same registrant and to correct the address of manufacturing site of another formulation.

Chemistry Assessment

Common Name: Pymetrozine
IUPAC* Chemical Name: 6-methyl-4-[[*(E)*-pyridin-3-ylmethylidene]amino]-4,5-dihydro-1,2,4-triazin-3(2*H*)-one
CAS† Chemical Name: 4,5-dihydro-6-methyl-4-[[*(E)*-(3-pyridinylmethylene)amino]-1,2,4-triazin-3(2*H*)-one

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Pymetrozine Technical has the following properties:

Property	Result
Colour and physical state	White – beige
Nominal concentration	98.3%
Odour	Slightly sweet odour
Density	1.36 g/cm ³
Vapour pressure	< 4 x 10 ⁻⁶ Pa (at 25°C)
pH	5.6 at 25°C 5 – 7 (1% in water)

Property	Result	
Solubility in water	<u>pH</u>	<u>Solubility (mg/L) at 25°C</u>
	5.0	320
	6.5	290
	7.0	270
n-Octanol/water partition coefficient	<u>pH</u>	<u>log K_{ow}</u>
	5	-0.24
	7	-0.19
	9	-0.20

The required chemistry data for Pymetrozine 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 in support of the product, Pymetrozine Technical, and has found the information sufficient to add a new source and to correct the address of manufacturing site of one of the formulations.

References

Studies/Information Provided by Applicant/Registrant

PMRA

Doc. # Reference

- 2481450 2014, Confidential Information Pymetrozine Technical (CGA215944) - Product Chemistry Volume, DACO:
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- 2481451 2014, Confidential Information Pymetrozine Technical (CGA215944) - Product Chemistry Volume (word document), DACO:
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- 2481452 2014, Confidential Information Pymetrozine Technical (CGA215944) - Document H Product Chemistry Volume, DACO: 0.8.11,0.8.12,Document J

- 2481461 2002, 2.13.2 - Confirmation of structures of by-products for CGA 215944 by mass spectroscopy, DACO: 2.12.2,2.13.4,IIA 1.10.2 CBI
- 2481462 2014, 2.13.1 - Analytical Method SA77/1, DACO: 2.13.1,IIA 4.2.1 CBI

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