

Evaluation Report for Category B, Subcategory 3.1.3 Application

Application Number: 2014-6051
Application: New / Changes to Product Chemistry - Specifications
Product: Pinoxaden Technical
Registration Number: 28149
Active ingredients (a.i.): Pinoxaden (PRN)
PMRA Document Number (English PDF): 2547118

Purpose of Application

The purpose of this submission was to update the chemistry database by submitting new batch data to reflect the new changes in production conditions and suppliers at the registered manufacturing site SYY-1 for Pinoxaden Technical.

Chemistry Assessment

Common Name: Pinoxaden
IUPAC* Chemical Name: 8-(2,6-diethyl-4-methylphenyl)-7-oxo-1,2,4,5-tetrahydro-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate
 Or
 8-(2,6-diethyl-*p*-tolyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate
CAS† Chemical Name: 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Pinoxaden Technical has the following properties:

Property	Result
Colour and physical state	Light beige
Nominal concentration	98.0%
Odour	Sweet odour
Density	1.16 g/cm ³
Vapour pressure at 25°C	4.6 × 10 ⁻⁷ Pa

pH at 25°C	4-6 (1% suspension in water)
Solubility in water at 25°C	200 mg/L
n-Octanol/water partition coefficient at 25°C	$\log K_{ow} = 3.2$

The chemistry requirements for Pinoxaden Technical have been fulfilled.

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, Pinoxaden Technical, and has found the information sufficient to update the chemistry database.

References

- PMRA Document
Number
- 2486264 2014, PC-14-066 Pinoxaden Technical OECD Document J (word document), DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.3,2.13.4,2.15,2.2 CBI
- 2486265 2014, PC-14-066 Pinoxaden Technical OECD Document J, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.3,2.13.4,2.15,2.2 CBI
- 2486266 2014, PC-14-067 Pinoxaden Technical Document H_Canada, DACO: 2.11.2 CBI
- 2486267 2014, Pinoxaden Technical (NOA407855) - Validation of Analytical Method AW-222/2 - Final Report, DACO: 2.13.1 CBI
- 2486268 2014, NOA407855 - AW-222/2 Determination of NOA407855 in Technical Material by HPLC - Analytical Method, DACO: 2.13.1 CBI

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