

Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2016-5092
Application: To fulfil the requirements of a product with full registration
Product: Cyazypyr Technical Insecticide
Registration Number: 30890
Active ingredient (a.i.): Cyantraniliprole
PMRA Document Number: 2785007

Purpose of Application

The purpose of this application was to fulfil the requirements of registration for Cyazypyr Technical Insecticide. The request was to remove a manufacturing site for this technical grade active ingredient, and replace it with three other sources, with supporting chemistry data. The name of the product is also being changed to Cyazypyr Technical Insecticide.

Chemistry Assessment

Common Name: Cyantraniliprole
IUPAC* Chemical Name: 3-bromo-1-(3-chloro-2-pyridyl)-4'-cyano-2'-methyl-6'-(methylcarbamoyl)pyrazole-5-carboxanilide
CAS† Chemical Name: 3-bromo-1-(3-chloro-2-pyridinyl)-*N*-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1*H*-pyrazole-5-carboxamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Cyazypyr Technical Insecticide has the following properties:

Property	Result
Colour and physical state	Off-white fine powder
Nominal concentration	96.7%
Odour	No characteristic odour
Density	1.3835 g/mL at 20°C
Vapour pressure	5.13 × 10 ⁻¹⁵ Pa at 20°C 1.79 × 10 ⁻¹⁴ Pa at 25°C
pH	5.61

Property	Result
Solubility in water at 20°C	Milli-RO water 14.24 ppm pH 4 17.43 ppm pH 7 12.33 ppm pH 9 5.94 ppm
n-Octanol/water partition coefficient	Log K _{ow} = 1.94

The required chemistry data for Cyazypyr Technical Insecticide 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 replacement of a manufacturing site for DuPont Cyazypyr Technical with three other sources, and to consider the requirements of registration for this product fulfilled.

References

PMRA Document Number	Reference
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2070252	2011, Cyantraniliprole (DPX-HGW86) certified limits, DACO: 2.12.1,2.12.2,Document K,IIA 1.9.2 CBI
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2092890	2011, Cyantraniliprole (DPX-HGW86) certified limits, DACO: 2.12.1,2.12.2,Document K,IIA 1.9.2 CBI
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2696093	2016, DACO 2.1 - 2.2, DACO: 2.1,2.2 CBI
2696098	2012, Batch analysis of cyantraniliprole (DPX-HGW86) technical, DACO: 2.13.3 CBI
2696099	2012, Batch analysis of cyantraniliprole (DPX-HGW86) technical, DACO: 2.13.3 CBI
2696100	2012, Batch analysis of cyantraniliprole (DPX-HGW86) technical, DACO: 2.13.3 CBI
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2843684	2015, Description and validation of the analytical methods for determination of impurities in technical grade cyantraniliprole (DPX-HGW86) - non confidential, DACO: 2.13.1
2843686	2015, Validation of the analytical method for determination of cyantraniliprole (DPX-HGW86) in technical grade cyantraniliprole - non confidential, DACO: 2.13.1
2843687	2015, Determination of [CBI REMOVED], DACO: 2.13.1 CBI
2843688	2015, Cyantraniliprole (DPX-HGW86) Determination of [CBI removed], DACO: 2.13.1 CBI
2843689	2015, Cyantraniliprole (DPX-HGW86) Determination of [CBI REMOVED], DACO: 2.13.1 CBI

PMRA Document Number	Reference
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2843691	2015, Cyantraniliprole (DPX-HGW86) Determination of [CBI removed], DACO: 2.13.1 CBI
2843692	2015, Technical and Formulated Pesticides and Other Substances Determination of [CBI removed], DACO: 2.13.1 CBI
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