



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2013-5876
Application: New / Changes TGAI or ISP Prod Chemistry-New Source (site)
same registrant
Product: Fluvalinate-Tau Technical
Registration Number: 31914
Active ingredients (a.i.): Tau-fluvalinate
PMRA Document Number : 2450675

Purpose of Application

The purpose of this application was to register a new source of tau-fluvalinate.

Chemistry Assessment

Common Name: Tau-fluvalinate (the name fluvalinate-tau is accepted in Canada)
IUPAC* Chemical Name: (*RS*)- α -cyano-3-phenoxybenzyl *N*-(2-chloro- α,α,α -trifluoro-*p*-tolyl)-*D*-valinate
CAS† Chemical Name: cyano(3-phenoxyphenyl)methyl *N*-[2-chloro-4-(trifluoromethyl)phenyl]-*D*-valinate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Fluvalinate-Tau Technical has the following properties:

Property	Result
Colour and physical state	Clear amber liquid
Nominal concentration	93.72%
Odour	Slight sour-sweet
Density	1.27 g/mL
Vapour pressure	9×10^{-8} mPa (at 20°C)
pH	5.31
Solubility in water	1.03 μ g/mL (20°C, pH 7)
n-Octanol/water partition coefficient	Log K_{ow} = 7.02

The chemistry data to support this new source of tau-fluvalinate have been provided, reviewed and found to be acceptable.

Health Assessments

The changes have no impact on the toxicology profile of the product.

Environmental Assessment

Laboratory derived bioaccumulation information and the minimal environmental exposure resulting from this use pattern indicate that bioaccumulation is not expected to be of concern. The new logK_{OW} information will not affect previous environmental assessments and conclusions.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Fluvalinate-Tau Technical, and has found the information sufficient to register a new source of this technical.

References

- 2357123 2013, 23022-Fluvalinate Tau TGAI-E-30october2013-label, DACO: 2.1,2.2,2.3
- 2357124 2005, Tau-Fluvalinate Technical-Product Properties, DACO: 2.12.1 CBI
- 2357127 2004, Tau-Fluvalinate quantification of Active Ingredient and Impurities Present at or Above 0.1%, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
- 2357130 2005, Physical and Chemical Characteristics of Tau-Fluvalinate Technical, DACO: 2.14.1,2.14.2,2.14.3,2.14.6
- 2357131 2005, Physical and Chemical Characteristics of Tau-Fluvalinate Technical, DACO: 2.14.12,2.14.5
- 2357132 Anonymous, 2010, EFSA Journal 2010; 8(7):1645, DACO: 2.14.10,2.14.11,2.14.13,2.14.7,2.14.8,2.14.9
- 2357133 2005, Tau-Fluvalinate Technical-Product Properties, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
- 2517986 2015, Tau-Fluvalinate Technical $\hat{\Delta}_i\hat{\Delta}_i\hat{\Delta}_i$ Method of Manufacture, DACO: 2.11.3 CBI
- 2517987 2015, Response to Deficiencies for Fluvalinate-Tau Technical Active Ingredient, Submission Number: 2013-5876, DACO: 2.11.3,2.13.3,2.13.4,2.15 CBI
- 2517989 2015, Rationale to waive the requirement for [CBI REMOVED] analysis, DACO: 2.13.4 CBI
- 2540322 1997, REPORT ON OCTANOL/ WATER PARTITION COEFFICIENT tau-fluvalinate, DACO: 2.14.11
- 2540323 1998, Physical and Chemical Properties Tests for tau-Fluvalinate, DACO: 2.14.11,2.14.7,2.14.8,2.14.9

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