

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2016-4157
Application: Changes to TGAI Product Chemistry – New Source (site) Same Registrant and Specifications
Product: Flutriafol Technical II Fungicide
Registration Number: 32858
Active ingredient (a.i.): Flutriafol
PMRA Document Number: 2752960

Purpose of Application

The purpose of this application was to register a new source of flutriafol, with a different guarantee as a dry product rather than a wet paste.

Chemistry Assessment

Common Name: Flutriafol
IUPAC* Chemical Name: (RS)-2,4'-difluoro- α -(1*H*-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol
CAS† Chemical Name: α -(2-fluorophenyl)- α -(4-fluorophenyl)-1*H*-1,2,4-triazole-1-ethanol

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Flutriafol Technical II Fungicide has the following properties:

Property	Result
Colour and physical state	White powder
Nominal concentration	98.7%
Odour	Odourless
Density	0.562 g/cm ³
Vapour pressure	7.1 × 10 ⁻⁶ mPa (at 20°C)
pH	5.8 (1% dilution)
Solubility in water	109 mg/L (20°C)
n-Octanol/water partition coefficient	Log K _{ow} = 2.3

The required chemistry data for Flutriafol Technical II Fungicide have been provided, reviewed, and found to be acceptable.

Health Assessments

The new source for technical flutriafol results in a product that is toxicologically equivalent to the previous source. Subsequently, no toxicological information was submitted or reviewed.

Exposure assessments were not required for this application.

Environmental Assessment

The use of the new source, Flutriafol Technical II Fungicide, for manufacturing and formulating of pest control products is not expected to pose additional environmental concerns.

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 and has determined that the registration of Flutriafol Technical II Fungicide can be supported.

References

PMRA Document Number	References
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2665509	2015, Flutriafol Technical (SC): Analysis and Certification of Product Ingredients, DACO: 2.0 CBI
2670007	2016, Part 2, DACO: 2.1, 2.12, 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.4, 2.14, 2.14.13, 2.15, 2.16 CBI
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2670009	2011, Determination of storage stability for 14 days at 54°C of Flutriafol technical (dry) in commercial packaging. , DACO: 2.14.1, 2.14.14, 2.14.15, 2.14.2, 2.14.3 CBI
2670010	1987, PP450: Physico-Chemical Data File., DACO: 2.14.10 CBI
2670011	1987, PP450: Physico-Chemical Data File., DACO: 2.14.10 CBI
2670012	2013, Flutriafol Partition Coefficient., DACO: 2.14.11 CBI
2670013	2010, Preparation of UV/VIS Absorption Spectra of Flutriafol (purified Active Ingredient) , DACO: 2.14.12 CBI
2670014	2013, Flutriafol Melting Temperature and Boiling Temperature., DACO: 2.14.4, 2.14.5 CBI
2670015	2011, Determination of the Bulk density of Flutriafol technical (dry)., DACO: 2.14.6 CBI
2670016	2013, Flutriafol Water Solubility., DACO: 2.14.7 CBI
2670017	2013, Flutriafol Solvent Solubility., DACO: 2.14.8 CBI
2670018	2013, Flutriafol Vapour Pressure., DACO: 2.14.9 CBI
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2685413	2011, Validation of analytical method [CBI REMOVED] in Flutriafol Technical., DACO: 2.13.1 CBI
2685414	2011, Amendmnet 1 to Validation of analytical method [CBI REMOVED] in Flutriafol Technical., DACO: 2.13.1 CBI
2685415	2014, Amendmnet 2 to Validation of analytical method [CBI REMOVED] in Flutriafol Technical., DACO: 2.13.1 CBI
2723100	2017, Clarification Response, DACO: 2.12 CBI
2727247	2017, Clarification Response, DACO: 2.12 CBI

ISSN: 1911-8082

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