

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2014-5766
Application: New or changes TGAI product chemistry – new source same registrant
Product: Fenoxaprop-P-Ethyl Technical Herbicide
Registration Number: 21903
Active ingredients (a.i.): Fenoxaprop-p-ethyl
PMRA Document Number : 2549566

Purpose of Application

The purpose of this application was to register an additional manufacturing site for Fenoxaprop-P-Ethyl Technical Herbicide.

Chemistry Assessment

Common Name: Fenoxaprop-P-ethyl
IUPAC* Chemical Name: Ethyl (2R)-2-{4-[(6-chloro-1,3-benzoxazol-2-yl)oxy]phenoxy} propanoate
CAS† Chemical Name: Ethyl (2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Fenoxaprop-P-ethyl Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.3%
Odour	Odourless
Density	1.3 g/cm ³
Vapour pressure	5.3 × 10 ⁻⁴ mPa
pH	3-5 (10% suspension)
Solubility in water	0.7 mg/L (pH 5.8)

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 4.58

The required chemistry data for Fenoxaprop-P-ethyl 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, Fenoxaprop-P-Ethyl Technical Herbicide, and has found the information sufficient to register an additional manufacturing site.

References

PMRA No.	Title
2480592	2014, Fenoxaprop-P-ethyl Technical Herbicide - Information to Address PMRA DACO Elements 2.1 & 2.2, DACO: 2.1,2.2 CBI
2480593	2014, Fenoxaprop-P-ethyl (AE F046360, Hoe 46360) - description of the manufacturing process of the technical grade active substance, DACO: 2.11.1 CBI
2480594	2014, Fenoxaprop-P-ethyl technical material - discussion of the formation of impurities, DACO: 2.11.4 CBI
2480595	2014, Material accountability of technical fenoxaprop-P-ethyl (AE F046360) - Final Report, DACO: 2.12.1,2.13.2,2.13.3 CBI
2480596	2014, Fenoxaprop-P-ethyl (AE F046360, Hoe 46360) - description of the manufacturing process of the technical grade active substance, DACO: 2.11.2,2.11.3 CBI
2480597	2004, Analytical method Determination of AE F046360 (Fenoxaprop-P-ethyl) in Technical Grade and Pure Active Ingredient and also Determination of AE F046360 (Fenoxaprop-P-ethyl) and [CBI Removed] in Formulations by Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
2480598	2003, Validation of the Analytical Method AL009/94-4 for the Determination of AE F046360 (Fenoxaprop-P-ethyl) in Technical Grade and Pure Active Ingredient by Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
2480599	2006, Analytical Method - Determination of the enantiomeric purity of AE F046360 (Fenoxaprop-P-ethyl) in technical grade and pure active ingredient by Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
2480600	2006, Validation of HPLC-method AM011506FP1: Determination of the enantiomeric purity of AE F046360 (Fenoxaprop-P-ethyl) in technical grade and pure active ingredient by Liquid Chromatography (HPLC), DACO: 2.13.1 CBI

2480601	2010, Analytical method - determination of organic impurities in technical grade and pure fenoxaprop-p-ethyl (ae f046360) by high performance liquid chromatography (HPLC), DACO: 2.13.1 CBI
2480602	2010, Validation of the HPLC method AM028510FP1 Determination of organic impurities in technical grade and pure Fenoxaprop-P-ethyl (AE F046360) by High Performance Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
2480603	2014, Analytical Method - Determination of [CBI Removed] in technical grade and pure fenoxaprop-p-ethyl (AE F046360) by gas chromatography (GC), DACO: 2.13.1 CBI
2480604	2014, Validation of the GC - Method AM040114FP1 - Determination of [CBI Removed] in technical grade and pure fenoxaprop-p-ethyl (AE F046360) by gas chromatography (GC), DACO: 2.13.1 CBI
2494607	2015, Summary of Analytical Raw Data - for Identity of AE F033171, DACO: 2.13.2 CBI

ISSN: 1911-8082

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