Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2011-1250
Application: Changes to TGAI product chemistry: new source (site) same registrant
Product: Albaugh Technical MCPA 2-Ethylhexyl Ester
Registration Number: 19267
Active ingredient (a.i.): MCPA (present as esters)
PMRA Document Number: 2173214

Purpose of Application

The purpose of this application was to add a new source of the technical product.

Chemistry Assessment

Common Name: MCPA-2-ethylhexyl
IUPAC Chemical Name: (*RS*)-2-ethylhexyl 4-chloro-*o*-tolyloxyacetate
CAS Chemical Name: 2-ethylhexyl 2-(4-chloro-2-methylphenoxy)acetate

Albaugh Technical MCPA 2-Ethylhexyl Ester has the following properties:

Property	Result
Colour and physical state	Brown liquid
Nominal concentration	62.4% MCPA (present as 2-ethylhexyl ester)
Odour	Characteristic odour
Density	1.0664 g/mL
Vapour pressure	1.77×10^{-3} Pa
pH	3.46
Solubility in water	Immiscible
n-Octanol/water partition coefficient	Log K_{ow} = 4.40 ($K_{ow} = 2.5 \times 10^{4}$)

The chemistry requirements for Albaugh Technical MCPA 2-Ethylhexyl Ester have been completed.

Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

An evaluation of available scientific information found that the new source is chemically equivalent to the registered source(s). Therefore, the value of the product and its health and environmental risk are not affected under the approved conditions of use.

References

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2028338 2010, Validation of the enforcement analytical method for determination of MCPA ester in technical and formulated products, Part 1 of 2, DACO: 2.13.1, 2.13.2 CBI

2028339 2010, Validation of the enforcement analytical method for determination of MCPA ester in technical and formulated products, Part 2 of 2, DACO: 2.13.1, 2.13.2 CBI

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2028344 2010, Determination of the partition coefficient (n-octanol/water) of MCPA-2 ethylhexyl ester by the flask-shaking method, DACO: 2.14.11

2028346 2010, Determination of the ultraviolet-visible absorption spectrum of MCPA ester, DACO: 2.14.12

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