Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2013-1013
Application: Changes TGAI Prod Chemistry-New Source (site), same registrant
Product: Albaugh MCPA Technical Acid
Registration Number: 19262
Active ingredients (a.i.): MCPA (Present as Acid)
PMRA Document Number : 2426456

Purpose of Application

The purpose of this application was to register a new site for this technical product by the same applicant.

Chemistry Assessment

Common Name: MCPA
IUPAC Chemical Name: 4-chloro-o-tolyloxyacetic acid
CAS Chemical Name: 2-(4-chloro-2-methylphenoxy)acetic acid

Albaugh MCPA Technical Acid has the following properties:

Property	Result
Colour and physical state	Off white to light brown solid
Nominal concentration	96.5%
Odour	Slight phenolic odour
Density	1.28 g/mL (at 20°C)
Vapour pressure	2.3×10^{-2} mPa (at 20°C)
pH	2.85
Solubility in water	pH: 1, 5, 7, 9 solubility (g/L): 0.395, 26.2, 293.9, 320.1
n-Octanol/water partition coefficient	pH: 1, 5, 7 log K_{ow}: 2.75, 0.59, -0.71

The chemistry requirements for Albaugh MCPA Technical Acid have been fulfilled.

Health, Environmental and Value Assessments

Review not required for this application.

Conclusion

The PMRA has reviewed the available information in support this application and has determined that the addition of the new site can be registered.

References

PMRA Document Number	Reference
2273490	2013, Chemistry 2.1-MCPA-TGAI-21jan2013, DACO: 2.1
2273491	2013, OPPTS Product Properties Test Guidelines, Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production Proocess, Discussion of Formation of lmpurities, and Certified Limits for Technical-2 Ethylhexyl Ester of MCPA, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
2273493	2012, MCPA Method Validation for Analysis of Potential Impurity Components, DACO: 2.13.1 CBI
2273494	2012, MCPA Method Validation for Assay of Active Substance, DACO: 2.13.1,2.13.2 CBI
2273495	2012, MCPA 5-Batch Analysis, DACO: 2.13.2,2.13.3 CBI
2273496	2011, (CBI removed) Analysis of MCPA TGAI, DACO: 2.13.4 CBI
2273498	2012, MCPA Ultraviolet/Visible Absorption Spectrum, DACO: 2.14.12
2273499	2012, MCPA Stability (Temperature and Metals), DACO: 2.14.13
2409374	2014, MCPA Acid (CBI removed) 2014 Impurity Screening 18p-02april2014, DACO: 2.11.4 CBI
2409375	2014, MCPA 5 Batch Analysis MCPA Acid (CBI removed) 2014 Prelim 2014 5p amend1-02april2014, DACO: 2.13.2 CBI

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