

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2019-3337
Application: Submission subject to *Protection of Proprietary Interests in Pesticide Data* (PIIP) policy
Product: Sharda MCPA 2-Ethylhexyl Ester Technical
Registration Number: 34257
Active ingredient (a.i.): MCPA (present as esters)
PMRA Document Number : 3107134

Purpose of Application

The purpose of this application was to register Sharda MCPA 2-Ethylhexyl Ester Technical, a new source of MCPA (present as esters) by a new registrant, based on a registered product.

Chemistry Assessment

Common Name: MCPA etexyl
 IUPAC* Chemical Name: (RS)-2-ethylhexyl [(4-chloro-*o*-tolyl)oxy]acetate
 CAS† Chemical Name: 2-ethylhexyl 2-(4-chloro-2-methylphenoxy)acetate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

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

| Property | Result |
|---------------------------------------|---------------------------|
| Colour and physical state | Light brown liquid |
| Nominal concentration | 60.3% |
| Odour | Pungent |
| Density | 1.0-1.1 g/cm ³ |
| Vapour pressure | 0.27 mPa |
| pH | 3.66 (1% w/v) |
| Solubility in water | < 0.4865 mg/L |
| n-Octanol/water partition coefficient | log Kow > 6.2 |

The required chemistry data for Sharda MCPA 2-Ethylhexyl Ester 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, and has found the information sufficient to support the registration of Sharda MCPA 2-Ethylhexyl Ester Technical.

References

| PMRA Document Number | Reference |
|----------------------|--|
| 3011721 | 2015, MCPA-2-ethylhexyl ester Technical: Manufacturing process/Description of materials used to produce the product/Description of production process, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI |
| 3011722 | 2015, 1.MCPA-2-Ethylhexyl TGAI: Complete analysis of five batch samples, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3011723 | 2015, 2.MCPA-2-Ethylhexyl TGAI: Screening for impurities content in five batch samples, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 3011724 | 2015, 1.A study for the analysis of MCPA 2-ethylhexyl for the presence of [CBI Removed], DACO: 2.13.4 CBI |
| 3011725 | 2015, Calibration [CBI Removed] chromatograms, DACO: 2.13.4 CBI |
| 3011726 | 2015, MCPA-2-Ethylhexyl TGAI: Validation of the analytical method for the determination of the active ingredient content, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI |
| 3011727 | 2015, MCPA-2-Ethylhexyl TGAI: Validation of the analytical method for the determination of the significant impurities content, DACO: 2.13,2.13.1, 2.13.2, 2.13.3 CBI |
| 3011728 | 2015, 1.MCPA-2-Ethylhexyl TGAI: Spectroscopic characterisation of five batch samples, DACO: 2.13, 2.13.1, 2.13.3 CBI |
| 3011729 | 2015, 5.MCPA-2-Ethylhexyl TGAI: Validation of the analytical method for the determination of [CBI Removed] as significant impurity content [CBI Removed], DACO: 2.13, 2.13.1, 2.13.3 CBI |
| 3011732 | 2015, 4.MCPA-2-Ethylhexyl TGAI: Validation of the analytical method for the determination of [CBI Removed] as solvent residue content (C, DACO: 2.13, 2.13.1, .13.3 CBI |
| 3011733 | 2018, Physical and chemical characterization of MCPA-2-ethylhexyl ester TGAI - color, physical state, odor, stability and corrosive characterization, oxidation/reduction: Chemical incompatibility, pH, UV/Visible absorption, boiling point, density, dissociation constant, partition coefficient and solubility, DACO: 2.14. |

| PMRA Document Number | Reference |
|-----------------------------|---|
| 3091860 | 2020, MCPA-2-ethylhexyl ester technical material manufactured [CBI Removed] manufacturing process, DACO: 2.11 CBI |

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