

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-3017
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data policy-Equivalency/Data Compensation Assessment
Product: FBN 2,4-D Ester Technical
Registration Number: 34582
Active ingredient (a.i.): 2,4-D present as ethylhexyl ester
PMRA Document Number: 3333371

Purpose of Application

The purpose of this application was to register a new technical grade product, FBN 2,4-D Ester Technical, based on a precedent.

Chemistry Assessment

Common Name: 2,4-D-etexyl
 IUPAC* Chemical Name: (RS)-2-ethylhexyl (2,4-dichlorophenoxy)acetate
 CAS† Chemical Name: 2-ethylhexyl 2-(2,4-dichlorophenoxy)acetate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

FBN 2,4-D Ester Technical has the following properties:

Property	Result
Colour and physical state	Golden yellow liquid
Nominal concentration	64.3 % as 2,4-D (present as ethylhexyl ester)
Odour	slight pungent
Density	1.148 g/mL
Vapour pressure	47.9 mPa (25 °C)
pH	~ 4
Solubility in water	0.086 mg/L
n-Octanol/water partition coefficient	log K _{ow} = 5.78

The required chemistry data for FBN 2,4-D 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 it sufficient to support the registration of FBN 2,4-D Ester Technical.

References

PMRA

Document

Number	Reference
3248833	2020, 2,4-D Ester Technical Manufacturing Process, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
3248863	2021, 2,4-D Ester Technical Manufacturing Process, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
3248827	2017, Preliminary Analysis and Enforcement Analytical Method of 2,4-D-Ethylhexyl Ester TGAI, DACO: 2.13.1,2.13.2,2.13.3 CBI
3248834	2017, Preliminary Analysis and Enforcement Analytical Method of 2,4-D-Ethylhexyl Ester TGAI - Confidential Attachment, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3248836	2018, A Study for the Analysis of 5 Batches of 2,4-D-2 Ethylhexyl Ester Technical for the Presence of Targeted Polychlorinated Dibenzodioxins and Dibenzofuran, DACO: 2.13.4 CBI
3248861	2020, Determination of Active Content and Impurity Profile of 2,4-D 2-ethylhexyl ester, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3248846	2020, A Study for the Analysis of 5 Batches of 2,4-D Ethylhexyl Ester for the Presence of Targeted Polychlorinated Dibenzodioxins and Dibenzofurans, DACO: 2.13.4 CBI
3248838	2021, Physical and Chemical Characterization of 2,4-D Ethylhexyl Ester TGAI, DACO: 2.13.1, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.5,2.14.6, 2.14.7, 2.14.8,830.7000
3248835	2020, Determination of Colour of 2,4-D-ethylhexyl TC, DACO: 2.14.1
3248832	2020, Determination of Physical State of 2,4-D-ethylhexyl TC, DACO: 2.14.2
3248837	2020, Determination of Odour of 2,4-D-ethylhexyl TC, DACO: 2.14.3
3248828	2020, Determination of Boiling Point/ Boiling Range of 2,4-D-ethylhexyl TC, DACO: 2.14.5
3248839	2020, Determination of Density and Specific Gravity of 2,4-D-ethylhexyl TC, DACO: 2.14.6
3248829	2020, Determination of Solubility of 2, 4-D-ethylhexyl TC in Water, DACO: 2.14.7
3248830	2020, Determination of Solubility of 2,4-D-ethylhexyl TC in Organic Solvents (n-Hexane and Methanol), DACO: 2.14.8
3248845	2020, Determination of Vapour Pressure of 2,4-D-ethylhexyl TC, DACO: 2.14.9
3248842	2020, Determination of UV-Visible Spectrum of 2,4-D-ethylhexyl TC, DACO: 2.14.12
3248840	2020, Determination of Accelerated Storage Stability and Corrosion Characteristics of 2,4-D-ethylhexyl TC with Packaging Material, DACO: 2.14.14
3248831	2020, Determination of Partition Coefficient of 2,4-D-ethylhexyl TC, DACO: 2.14.11
3353692	2020, Determination of pH of 2,4-D-ethylhexyl TC, DACO: 2.14.15,830.7000

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