

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-5357
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Trustchem North America Inc.
Product: Trustchem 2,4-D 2-ethylhexyl ester Technical
Registration Number: 35277
Active ingredient (a.i.): 2,4-D (present as 2-ethylhexyl ester)
PMRA Document Number: 3607601

Purpose of Application

The purpose of this application was to register Trustchem 2,4-D 2-ethylhexyl ester Technical, a new source of the active ingredient 2,4-D, based on registered precedent products.

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

Trustchem 2,4-D 2-ethylhexyl ester Technical has the following properties:

Property	Result
Colour and physical state	Light yellow, liquid
Nominal concentration	64.58%
Odour	Characteristic odour
Density	1.1333 – 1.1693 g/mL at 20°C
Vapour pressure	7.96 x 10 ⁻² mPa at 25°C
pH	4.06
Solubility in water	0.0832 mg/L (20°C, pH 6.0)
n-Octanol/water partition coefficient	log K _{ow} = 6.52

The required chemistry data for Trustchem 2,4-D 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 acceptable to support the registration of Trustchem 2,4-D 2-ethylhexyl ester Technical.

References

PMRA Document Number	Reference
3508758	2020, Manufacturing Process, DACO: 2.11.1,2.11.3,2.11.4 CBI
3508766	2020, Batch Data, DACO: 2.13.3,2.13.4 CBI
3508767	2020, Impurity of [CBI REMOVED], DACO: 2.13.4 CBI
3508768	2020, Colour, DACO: 2.14.1
3508769	2020, Physical State, DACO: 2.14.2
3508770	2020, Odour, DACO: 2.14.1,2.14.2,2.14.3
3508771	2020, Boiling Point, DACO: 2.14.5
3508772	2020, Density, DACO: 2.14.6
3508773	2020, Water Solubility, DACO: 2.14.7
3508774	2020, Solvent Solubility, DACO: 2.14.8
3508775	2020, Vapour Pressure, DACO: 2.14.9
3508776	2020, Dissociation Constant, DACO: 2.14.10
3508777	2020, Partition Coefficient, DACO: 2.14.11
3508778	2020, UV/Visible Absorption, DACO: 2.14.12
3508779	2020, Stability, DACO: 2.14.13,2.14.14
3508780	2020, pH, DACO: 2.14.15

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