

Evaluation Report for Category B, Subcategories 1.1, 1.3 Application

Application Number: 2020-0813
Application: Changes to TGAI Product Chemistry-New Source (site) same registrant, Specifications
Product: Adama 2,4-D 2EH Ester Technical
Registration Number: 32856
Active ingredient (a.i.): 2,4-D (present as low volatile esters)
PMRA Document Number: 3218481

Purpose of Application

The purpose of this application was to add a new source of technical grade active ingredient for the registered product Adama 2,4-D 2EH Ester Technical.

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

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

Property	Result
Colour and physical state	Golden yellow liquid
Nominal concentration	63.7 % as 2,4-D
Odour	Sweet, slightly pungent
Density	1.148 g/mL
Vapour pressure	47.9 mPa (extrapolated to 25°C)
pH	6 -7
Solubility in water	0.086 mg/L
n-Octanol/water partition coefficient	log K _{ow} = 5.78

The required chemistry data for Adama 2,4-D 2EH Ester Technical have been provided, reviewed, and found to be acceptable.

Health Assessments

The new source of active ingredient for Adama 2,4-D 2EH Ester Technical was considered toxicologically equivalent to the previously registered source. As such, no new toxicology data were required or evaluated.

Dietary and occupational exposure risk assessments were not required for this application.

Environmental and Value Assessments

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 add the new source of technical grade active ingredient for Adama 2,4-D 2EH Ester Technical.

References

PMRA

Document

Number	Reference
3097002	2016, 2, 4-D-2-ethylhexyl ester manufacturing process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3097003	2017, Preliminary Analysis and Enforcement Analytical Method of 2,4-D Ethyl Hexyl Ester TGAI, DACO: 2.13.1,2.13.2,2.13.3 CBI
3097004	2017, Preliminary Analysis and Enforcement Analytical Method of 2,4-D Ethyl Hexyl Ester TGAI (impurities), DACO: 2.13.1,2.13.2,2.13.3 CBI
3097005	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 Dibenzofurans, DACO: 2.13.4 CBI

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