



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2018-0498
Application: Application subject to the Protection of Proprietary Interests in Pesticides Policy
Product: Sharda Trinexapac-ethyl Technical
Registration Number: 33358
Active ingredients (a.i.): Trinexapac-ethyl
PMRA Document Number: 2900660

Purpose of Application

The purpose of this application was to register a new manufacturing source of Trinexapac-ethyl.

Chemistry Assessment

Common Name: Trinexapac-ethyl
IUPAC* Chemical Name: ethyl (1*RS*,4*EZ*)-4-cyclopropyl(hydroxy)methylene-3,5-dioxocyclohexanecarboxylate
CAS† Chemical Name: ethyl 4-(cyclopropylhydroxymethylene)-3,5-dioxocyclohexanecarboxylate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sharda Trinexapac-ethyl Technical has the following properties:

Property	Result	
Colour and physical state	Light yellow liquid	
Nominal concentration	99.0%	
Odour	Slightly sweet	
Density	1.212 – 1.216 g/mL	
Vapour pressure	1.91 mPa (at 20°C)	
pH	3.72 – 3.74	
Solubility in water	pH	Solubility (g/L)
	5	2.79
	7	7.23
	9	17.34

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 1.49

The required chemistry data for Sharda Trinexapac-ethyl 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 Trinexapac-ethyl Technical.

References

PMRA

Document

Number	Reference
2846549	2018, Manufacturing Summary, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
2846550	2013, Preliminary Analysis, DACO: 2.13, 2.13.1 CBI
2846551	2012, Preliminary Analysis, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
2846552	2012, Preliminary Analysis, DACO: 2.13, 2.13.1, 2.13.2 CBI
2846553	2012, Preliminary Analysis, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
2846554	2012, Preliminary Analysis, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
2846555	2015, Phototransformation of trinexapac ethyl technical in water direct photolysis, DACO: 2.14.12
2846556	2015, Development and Validation of Analytical Method for Active ingredient Analysis of Trinexapac-ethyl Technical, DACO: 2.13.1
2846557	2015, Accelerated Storage stability and Corrosion Characteristics of Trinexapac-ethyl technical, DACO: 2.14, 2.14.1, 2.14.10, 2.14.11, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.5, 2.14.6, 2.14.7, 2.14.8
2846558	2015, Corrosiveness of Trinexapac-ethyl technical, DACO: 2.14.13

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