



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-1665
Application: Submission subject to the *Protection of Proprietary Interests in Pesticide Data* (PPIP) policy-Equivalency/Data Compensation Assessment
Product: Advantage Trifluralin Technical
Registration Number: 34472
Active ingredient (a.i.): Trifluralin
PMRA Document Number: 3328193

Purpose of Application

The purpose of this application was to register Advantage Trifluralin Technical, a new source of the technical grade active ingredient trifluralin, based on a registered precedent.

Chemistry Assessment

Common Name: Trifluralin
IUPAC* Chemical Name: 2,6-dinitro-*N,N*-dipropyl-4-(trifluoromethyl)aniline
French IUPAC* Chemical Name: 2,6-dinitro-*N,N*-dipropyl-4-(trifluorométhyl)aniline
CAS† Chemical Name: 2,6-dinitro-*N,N*-dipropyl-4-(trifluoromethyl)benzenamine

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Advantage Trifluralin Technical has the following properties:

Property	Result
Colour and physical state	bright red orange crystals
Nominal concentration	98.4 %
Odour	odourless
Density	1.26 g/mL
Vapour pressure	9.5 mPa (25°C)
pH	6.35
Solubility in water	0.18 – 0.22 mg/L

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = 5.27$

The required chemistry data for Advantage Trifluralin Technical have been provided, reviewed, and found to be acceptable.

Value, Health and Environmental Assessments

Value, health and environmental assessments were not required for this submission.

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 Advantage Trifluralin Technical.

References

PMRA Document Number	Reference
3222552	2013, Certificate of Analysis [CBI removed], DACO: 2.13.2 CBI
3222553	2013, Certificate of Analysis [CBI removed], DACO: 2.13.2 CBI
3222554	2013, Certificate of Analysis [CBI removed], DACO: 2.13.2 CBI
3222555	2013, Certificate of Analysis [CBI removed], DACO: 2.13.2 CBI
3222556	2013, Certificate of Analysis [CBI removed], DACO: 2.13.2 CBI
3222557	2013, Certificate of Analysis [CBI removed], DACO: 2.13.2 CBI
3222559	2013, Validation of Analytical Methodology for the Assay of Active Ingredient in Triflurain TGAI, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3222560	2013, Validation of Analytical Methodology for the Assay of [CBI Removed] in Triflurain TGAI, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3222561	2013, Validation of Analytical Methodology for the Assay of [CBI removed] in Triflurain TGAI, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3222562	2013, Validation of Analytical Methodology for the Assay of [CBI removed] in Triflurain TGAI, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3222565	2013, Preliminary Analysis of Trifluralin TGAI, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3222566	2019, Chemical and Physical Characterization of Trifluralin 96% TECH: Color, Physical State, Odor, pH, Dissociation Constant, Density, Accelerated Storage Stability, UV-Vis, Oxidation/reduction, Solubility, Melting Point, Partition Coefficient and Vapour Pressure, DACO: 2.14, 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, 2.14.4, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 830.7000 CBI
3322287	2022, Processing method for Trifluralin TGAI 2022, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI

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