Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0587
Application: Submissions Subject to Protection of Proprietary Interests in Pesticide Data Policy/ Data Compensation Assessment
Product: NCI Technical Trifluralin Herbicide
Registration Number: 34455
Active ingredient (a.i.): Trifluralin
PMRA Document Number: 3309902

Purpose of Application

The purpose of this application was to register a new source of trifluralin, NCI Technical Trifluralin Herbicide, based on a precedent.

Chemistry Assessment

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

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

NCI Technical Trifluralin Herbicide has the following properties:

Property	Result
Colour and physical state	Yellow-orange solid
Nominal concentration	97.47%
Odour	Mild aromatic
Density	1.2387-1.2399 g/mL
Vapour pressure	6.1 mPa (at 25˚C)
pH	6.93 (1% solution in water)
Solubility in water	0.19 – 0.22 mg/L (20 - 25˚C)
n-Octanol/water partition coefficient	log Kow = 5.27

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The required chemistry data for NCI Technical Trifluralin Herbicide 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 provide and has found it sufficient to support the registration of NCI Technical Trifluralin Herbicide.

References

PMRA Document Number	References
3199090	2015, Manufacturing Process and quality control of Trifluralin Technical, DACO: 2.11.1,2.11.2,2.11.3,2.2 CBI
3199092	2021, Five-Batch Analysis of Trifluralin TC, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3199093	2017, Determination of Physical State, Color and Odor of Trifluralin Technical, DACO: 2.14.1,2.14.2,2.14.3
3199094	2021, Determination of Dissociation Constant of Trifluralin Technical , DACO: 2.14.10
3199095	2017, Determination of Partition Coefficient of Trifluralin Technical (Shake Flask Method), DACO: 2.14.11
3199096	2017, Determination of UV Absorbtion Spectra of Trifluralin Technical, DACO: 2.14.12
3199097	2017, Accelerated Storage Stability and Corrosion Characteristics of Trifluralin Technical, DACO: 2.14.13,2.14.14
3199098	2017, Determination of Melting Point of Trifluralin Technical, DACO: 2.14.4
3199099	2017, Determination of Density of Trifluralin Technical, DACO: 2.14.6
3199100	2017, Determination of Water Soluability of Trifluralin Technical , DACO: 2.14.7
3199101	2021, Determination of Soluability of Trifluralin Technical In Organic Solvents, DACO: 2.14.8
3199102	2017, Determination of Vapour Pressure of Trifluralin Technical, DACO: 2.14.9
3199103	2017, Determination of the pH of Trifluralin Technical , DACO: 2.14.15,830.7000
3287938	2019, Justification of the presence of impurities of Trifluralin Technical, DACO: 2.11.4 CBI