Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-3007
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Sharda Cropchem Limited
Product: Sharda Ethalfluralin Technical
Registration Number: 35223
Active ingredient (a.i.): Ethalfluralin
PMRA Document Number: 3590583

Purpose of Application

The purpose of this application was to register Sharda Ethalfluralin Technical, a new source of ethalfluralin, based on a registered precedent product.

Chemistry Assessment

Common Name: Ethalfluralin
IUPAC* Chemical Name: *N*-ethyl-*N*-(2-methylprop-2-enyl)-2,6-dinitro-4-(trifluoromethyl)aniline
CAS† Chemical Name: *N*-ethyl-*N*-(2-methylprop-2-en-1-yl)-2,6-dinitro-4-(trifluoromethyl)aniline

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

Sharda Ethalfluralin Technical has the following properties:

Property	Result
Colour and physical state	Yellow crystal
Nominal concentration	99.5%
Odour	Mild aromatic
Density	1.0450 g/mL at 20°C
Vapour pressure	7.4119 mPa at 20°C (extrapolated) 12.868 mPa at 25°C (extrapolated)
pH	6.65 (1% w/v aqueous suspension)

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Property	Result
Solubility in water	0.327 µg/mL at 20°C
n-Octanol/water partition coefficient	log K_{ow} = 4.73 (pH 7.13, 25°C)

The required chemistry data for Sharda Ethalfluralin 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 Sharda Ethalfluralin Technical.

References

PMRA Document Number	Reference
3478275	2022, Stability to Normal, Elevated Temperatures, Metals and Metal Ions and Corrosion Characteristics of Ethalfluralin Technical, DACO: 2.14.1,2.14.13,2.14.2,2.14.3
3478274	2022, Physicochemical Properties of Ethalfluralin Technical, DACO: 2.14.10,2.14.12,2.14.15,2.14.4,2.14.6,830.7000
3478272	2022, Determination of Partition Coefficient (n-Octanol/Water) of Ethalfluralin Technical, DACO: 2.14.11
3478271	2022, Solubility in Water and Organic Solvents of Ethalfluralin Technical, DACO: 2.14.7,2.14.8
3478273	2022, Determination of Vapour Pressure and Henrys Law Constant of Ethalfluralin Technical, DACO: 2.14.9
3478270	2023, Synthesis and Impurity Formation of Ethalfluralin Technical Grade, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3478268	2022, Five Batch Analysis of Ethalfluralin Technical, DACO: 2.13.1,2.13.2,2.13.3 CBI
3478269	2023, Five Batch Analysis of Ethalfluralin Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3567019	2024, Clarification to Batch Data, DACO: 2.13.3 CBI