



Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2024-2113
Application: Fulfill Requirements of Registration
Applicant: Mitsui Chemicals Crop & Life Solutions, Inc.
Product: Broflanilide Technical Insecticide
Registration Number: 33665
Active ingredient (a.i.): Broflanilide
PMRA Document Number: 3737258

Purpose of Application

The purpose of this application was to fulfill the post-market requirement for commercial-scale batch data for Broflanilide Technical Insecticide, as outlined in the Section 12 Notice issued under application number 2017-7412.

Chemistry Assessment

Common Name: broflanilide
IUPAC* Chemical Name: 3-[benzoyl(methyl)amino]-2'-bromo-2-fluoro-4'-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-6'-(trifluoromethyl)benzanilide
CAS† Chemical Name: 3-(benzoylmethylamino)-*N*-[2-bromo-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-6-(trifluoromethyl)phenyl]-2-fluorobenzamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Broflanilide Technical Insecticide has the following properties:

Property	Result
Colour and physical state	Beige solid
Nominal concentration	99.68%
Odour	No discernible odour
Density	1.6 – 1.7 g/cm ³
Vapour pressure	8.9 x 10 ⁻⁹ Pa at 25°C
pH	6.7 (1% w/v dispersion)
Solubility in water	0.71 mg/L

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 5.7 (pH 7)

The required chemistry data for Broflanilide Technical Insecticide 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 fulfill the post-market requirement for Broflanilide Technical Insecticide.

References

PMRA

Document

Number

Reference

3593185	2022, Content Analysis of Broflanilide, DACO: 2.13.3 CBI
3593186	2022, Content Analysis of Broflanilide, DACO: 2.13.3 CBI

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