



Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2024-6550
Application: Changes to Technical Grade Active Ingredient (Product Chemistry)
– Specifications
Applicant: Mitsui Chemicals Crop & Life Solutions, Inc.
Product: Broflanilide Technical Insecticide
Registration Number: 33665
Active ingredient (a.i.): Broflanilide
PMRA Document Number : 3825813

Purpose of Application

The purpose of this application was to add an alternate formulation process and alternate suppliers of starting materials at one of the approved manufacturing sites for Broflanilide Technical Insecticide.

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

Health Canada has completed an assessment of the information provided, and has found the information acceptable to support the addition of an alternate formulation process and alternate suppliers of starting materials at one of the approved manufacturing sites for Broflanilide Technical Insecticide.

Additional Information Being Requested

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production will be required as post-market information after registration.

References

PMRA

Document

Number	Reference
3663326	2024, Broflanilide Technical: Product Identity a Disclosure of Ingredients, Description of Materials Used to Produce the Product, Production Process, Discussion of Formation of Impurities, and Certified Limits for PMRA, DACO: 2.11.1,2.11.3,2.11.4,2.12.1,2.13.4,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3663328	2022, Content Analysis of Broflanilide, DACO: 2.13.3 CBI

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