

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2024-0658
Application: Changes to Technical Grade Active Ingredient (Product Chemistry) – New Source (Site) Same Registrant
Applicant: Corteva Agriscience Canada Company
Product: Isoclast Active
Registration Number: 30824
Active ingredient (a.i.): Sulfoxaflor
PMRA Document Number: 3704107

Purpose of Application

The purpose of this application was to add a new manufacturing site to Isoclast Active.

Chemistry Assessment

Common Name: Sulfoxaflor
English IUPAC* Chemical Name: [methyl(oxo){1-[6-(trifluoromethyl)-3-pyridyl]ethyl}-λ⁶-sulfanylidene]cyanamide
CAS† Chemical Name: *N*-[methyloxydo[1-[6-(trifluoromethyl)-3-pyridinyl]ethyl]-λ⁴-sulfanylidene]cyanamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Isoclast Active has the following properties:

Property	Result
Colour and physical state	Off-white powder
Nominal concentration	97.9%
Odour	Sharp odour
Density	1.52–1.55 g/mL
Vapour pressure	<1.4 × 10 ⁻⁶ mPa
pH	5.0–6.5 (1% slurry)

Property	Result	
Solubility in water at 20 °C	<u>pH</u>	<u>Solubility (mg/L)</u>
	Unbuffered	670
	5	1380
	7	570
	9	550
n-Octanol/water partition coefficient	<u>pH</u>	<u>log K_{ow}</u>
	5	0.806
	7	0.802
	9	0.799

The required chemistry data for Isoclast Active 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 add a new manufacturing site for Isoclast Active.

References

PMRA Document Number	Reference
3556718	2019, 2.7-2.9, 2.11, 2.12, 2.13.1-2 Sulfoxaflor Technical [PRIVACY INFO Removed] Group A Report, DACO: 2.11,2.12,2.13,2.7,2.8,2.9 CBI
3556720	2010, 2.13.1 DAS-AM-G-10-9 (XDE-208 residual solvent validation), DACO: 2.13.1 CBI
3556721	2010, 2.13.1 DAS-AM-G-10-16 (XDE-208 Impurity and AI Method), DACO: 2.13.1 CBI
3556722	2012, 2.13.1 DAS-AM-G-12-23 ([CBI Removed] Method), DACO: 2.13.1 CBI
3556724	2024, DACO 2.11.3, 2.12, 2.13.4 Sulfoxaflor TGAI Rationale, DACO: 2.12,2.13.4 CBI
3569713	2019, 2.7-2.9, 2.11, 2.12, 2.13.1-2 Sulfoxaflor Technical [PRIVACY INFO Removed] Group A Report, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.13,2.13.2 CBI
3613230	2021, 2.13.3 200534_5 Batch Analysis Sulfoxaflor_Part A NonConf, DACO: 2.13.3 CBI
3613232	2021, 2.13.3 200534_5 Batch Analysis Sulfoxaflor_Part B Conf , DACO: 2.13.3 CBI
3613233	2024, 2.13.3 240464 [CBI Removed] Sulfoxaflor 5BA Final Report, DACO: 2.13.3 CBI
3613234	2024, 2.13.1 AM-231305 in Sulfoxaflor Method, DACO: 2.13.1 CBI
3693752	2025, 2.11.2 Sulfoxaflor Raw Materials, DACO: 2.11.2 CBI

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