



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2023-4044
Application: Changes to Technical Grade Active Ingredient (Product Chemistry) - New Source(site), same registrant
Applicant: ADAMA Agricultural Solutions Canada Ltd.
Product: ADAMA CLODINAFOP-PROPARGYL TECHNICAL
Registration Number: 29373
Active ingredient (a.i.): Clodinafop-propargyl
PMRA Document Number: 3619304

Purpose of Application

The purpose of this application was to register a new source for ADAMA CLODINAFOP-PROPARGYL TECHNICAL, by the same registrant, and to update the specifications for all registered sites.

Chemistry Assessment

Common Name: clodinafop-propargyl
IUPAC* Chemical Name: prop-2-ynyl (*R*)-2-{4-[(5-chloro-3-fluoro-2-pyridyl)oxy]phenoxy}propionate
CAS† Chemical Name: 2-propynyl (2*R*)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]propanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ADAMA CLODINAFOP-PROPARGYL TECHNICAL has the following properties:

Property	Result
Colour and physical state	Beige crystals
Nominal concentration	97.1%
Odour	Strong specific odour
Density	1.38 g/cm ³
Vapour pressure	1.94 x 10 ⁻³ mPa
pH	4.5-5.1
Solubility in water	2.6 mg/L (pH 7)

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 3.4

The required chemistry data for ADAMA CLODINAFOP-PROPARGYL 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 the new source and to update the specifications for the registered sites for ADAMA CLODINAFOP-PROPARGYL TECHNICAL.

References

PMRA Document Number	Reference
1429189	2006, Determination of the Melting Point/Melting Range and the Boiling Point/Boiling Range and Appearance of Clodinafop-Propargyl, DACO: 2.14.1, 2.14.2, 2.14.3, 2.14.4, 2.14.5 CBI
1429190	2006, Calculation of the Dissociation Constant of Clodinafop-Propargyl, DACO: 2.14.10 CBI
1429191	2006, Expert Statement on the Oxidizing Properties of Clodinafop-Propargyl Technical, DACO: 2.14.13 CBI
1429192	2007, Waiver Request: Stability to Metals and Metal Ions Re: Clodinafop-Propargyl Technical, DACO: 2.14.13 CBI
1429193	2007, Storage Stability and Corrosion Characteristics of Clodinafop-Propargyl Technical Storage at 54 C for 14 Days, DACO: 2.14.13, 2.14.14 CBI
1429194	2006, Determination of the Relative Density of Clodinafop-Propargyl - Analytical Standard, DACO: 2.14.6 CBI
1429195	2006, Determination of the Water Solubility and the Partition Coefficient (N-octanol/water) of Clodinafop-Propargyl Analytical Standard, DACO: 2.14.11, 2.14.7 CBI
1429196	2006, Determination of the Solubility of Clodinafop-Propargyl Technical in Organic Solvent, DACO: 2.14.8 CBI
1429197	2006, Calculation of the Vapour Pressure of Clodinafop-Propargyl - Analytical Standard, DACO: 2.14.9 CBI
1927987	2006, Determination of the Water Solubility and the Partition Coefficient (N-octanol/water) of Clodinafop Propargyl Analytical Standard, DACO: 2.14.11
3491898	2023, Chemistry requirements for a TGAI or an Integrated System, Manufacturing Methods for the TGAI, Specifications, Preliminary Analysis, Sample(s) of Analytical Standards and ROC and MSDS from ADAMA Clodinafop-Propargyl Technical, DACO: 2.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.13.3, 2.2, 2.3, 2.3.1, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3491899	2023, Clodinafop-propargyl TC: Analytical profile of five batches and methods validation, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI

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