Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0668
Application: Submission Subject to Protection of Proprietary Interests in Pesticide Data Policy – Equivalency/Data Compensation Assessment
Product: FBN Azoxystrobin Technical
Registration Number: 34456
Active ingredient (a.i.): Azoxystrobin
PMRA Document Number: 3295857

Purpose of Application

The purpose of this application was to register a new source of technical-grade azoxystrobin based on registered precedents.

Chemistry Assessment

Common Name: azoxystrobin
IUPAC* Chemical Name: methyl (2*E*)-2-(2-{[6-(2-cyanophenoxy)pyrimidin-4-yl]oxy}phenyl)-3-methoxyprop-2-enoate
CAS† Chemical Name: methyl (α*E*)-2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-α-(methoxymethylene)benzeneacetate

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

FBN Azoxystrobin Technical has the following properties:

Property	Result
Colour and physical state	Off-white powder
Nominal concentration	98.8%
Odour	Non-characteristic odour
Density	1.2804 g/cm^3
Vapour pressure	1.23 x 10^{-10} Pa at 20°C
pH	6.71
Solubility in water	6.01 mg/L (pH 7.04)

Property	Result
n-Octanol/water partition coefficient	2.53

The required chemistry data for FBN Azoxystrobin 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 it sufficient to support the registration of FBN Azoxystrobin Technical.

References

PMRA Document Number	Reference
3201341	2012, [CBI Removed] analysis and validation of an HS/GC-FID method for the quantitative determination of [CBI Removed] in Azoxystrobin technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3201342	2012, Azoxystrobin Technical Material, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3201343	2013, Appearance (Colour, Physical State and Odour) of Azoxystrobin 98% Min. Tech., DACO: 2.14.1,2.14.2,2.14.3 CBI
3201344	2016, Azoxystrobin Characterization of Reference Standards, DACO: 2.13.2 CBI
3201351	2020, Description of Technical Active Ingredient Production Process, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3201352	2013, Melting Point/Melting Range of Azoxystrobin 98% Min. Tech., DACO: 2.14.4 CBI
3201355	2021, Determination of the solubility in Azoxystrobin 98% min. Tech, DACO: 2.14.8
3201356	2021, Preliminary Analysis and Enforcement Analytical Method of Toluene in Azoxystrobin 98% min. Tech, DACO: 2.13.3,2.13.4 CBI
3201357	2011, NMR Characterization of impurity batch 04004a (AZX421A), DACO: 2.13.2 CBI
3201358	2011, NMR Characterization of impurity batch 04011b (AZX585A), DACO: 2.13.2 CBI
3201359	2011, NMR Characterization of impurity batch 04016a (AZX492A), DACO: .13.2 CBI
3201360	2011, NMR Characterization of impurity batch 04016c (AZX316A), DACO: 2.13.2 CBI
3201361	2011, NMR Characterization of impurity batch 04028a (AZX320A), DACO: 2.13.2 CBI
3201363	2013, Partition Coefficient (n-Octanol/water) of Azoxystrobin 98% Min. Tech., DACO: 2.14.11 CBI
3201367	2019, Physical and Chemical Characterization of Azoxystrobin TGAI, DACO: 2.14.10,2.14.12,2.14.13,2.14.14,2.14.15,2.14.6,830.7000 CBI
3201368	2011, Solvent Blank Chromatogram for Study 069/2011, DACO: 2.13.1,2.13.2,2.13.3 CBI
3201369	2011, Solvent Blank Chromatogram for Study 070/2011, DACO: 2.13.1,2.13.2,2.13.3 CBI
3201371	2020, Suppliers Address List for Starting Materials, DACO: 2.11.2 CBI
3201372	2012, Azoxystrobin Technical Material Validation of the methods for determination of active ingredient and significant impurities, DACO: 2.13.1 CBI
3201373	2013, Vapour Pressure of Azoxystrobin 98% Min. Tech., DACO: 2.14.9 CBI
3201374	2013, Water Solubility of Azoxystrobin 98% Min. Tech., DACO: 2.14.7 CBI