

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2023-4513
Application: Changes to Technical Grade Active Ingredient (TGAI) Product Chemistry- New source (site), same registrant
Applicant: BASF Canada Inc.
Product: Xemium Technical Fungicide
Registration Number: 30561
Active ingredient (a.i.): Fluxapyroxad
PMRA Document Number : 3611141

Purpose of Application

The purpose of this application was to register a new source of fluxapyroxad for Xemium Technical Fungicide.

Chemistry Assessment

Common Name: fluxapyroxad
 IUPAC* Chemical Name: 3-(difluoromethyl)-1-methyl-*N*-(3',4',5'-trifluorobiphenyl-2-yl)-1*H*-pyrazole-4-carboxamide
 CAS† Chemical Name: 3-(difluoromethyl)-1-methyl-*N*-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-1*H*-pyrazole-4-carboxamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Xemium Technical Fungicide has the following properties:

Property	Result										
Colour and physical state	White solid										
Nominal concentration	99.5%										
Odour	Odourless										
Density	1.42 g/cm ³										
Vapour pressure	2.7 x 10 ⁻⁹ Pa at 20°C										
pH	5.8										
Solubility in water	3.88 mg/L										
n-Octanol/water partition coefficient	<table style="border: none;"> <tr> <td><u>log K_{ow}</u></td> <td><u>pH</u></td> </tr> <tr> <td>3.08</td> <td>(deionized water)</td> </tr> <tr> <td>3.09</td> <td>4</td> </tr> <tr> <td>3.13</td> <td>7</td> </tr> <tr> <td>3.09</td> <td>9</td> </tr> </table>	<u>log K_{ow}</u>	<u>pH</u>	3.08	(deionized water)	3.09	4	3.13	7	3.09	9
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3.09	4										
3.13	7										
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The required chemistry data for Xemium Technical Fungicide 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 a new source of fluxapyroxad for Xemium Technical Fungicide.

Additional Information Being Requested

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

References

PMRA Document Number	Reference
3496602	2023, Amended Product Identity and Composition of BAS 700 F (Fluxapyroxad) Documentation of equivalence for new commercial sources, DACO: 2.1,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.16 CBI
3496604	2023, Chemical Analysis of Five Batches Fluxapyroxad (BAS 700 F / Reg.No. 5094351) Technical Grade Active Ingredient (TGAI), DACO: 2.13.3 CBI

text

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