

## Evaluation Report for Category B, Subcategory 1.3 Application

**Application Number:** 2014-5550  
**Application:** Changes TGAI Prod Chemistry - Specifications  
**Product:** Xemium Technical Fungicide  
**Registration Number:** 30561  
**Active ingredients (a.i.):** Fluxapyroxad  
**PMRA Document Number :** 2546781

### Purpose of Application

The purpose of this application was to update the nominal concentration of Xemium Technical Fungicide.

### Chemistry Assessment

**Common Name:** Fluxapyroxad  
**IUPAC\* Chemical Name:** 3-(Difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-1H-pyrazole-4-carboxamide  
**CAS† Chemical Name:** 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-1H-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 to beige crystalline solids
Nominal concentration	99.5%
Odour	Odorless
Density at 20°C	1.42 g/cm <sup>3</sup>
Vapour pressure	2.7 x 10 <sup>-9</sup> Pa at 20°C 8.1 x 10 <sup>-9</sup> Pa at 25°C
pH	5.8
Solubility in water at 20°C	3.88 mg/L at pH 5.8 (not buffered) 3.78 mg/L at pH 4 3.44 mg/L at pH 7 3.84 mg/L at pH 9

n-Octanol/water partition coefficient	<u>log K<sub>ow</sub></u>	<u>pH</u>
	3.08	(deionized water)
	3.09	4
	3.13	7
	3.09	9

The chemistry requirements for Xemium Technical Fungicide have been fulfilled.

### Health Assessments

The new manufacturing sites and the proposed changes to the product specifications of Xemium Technical Fungicide resulted in a product that is chemically equivalent to the previous product specification. Subsequently, no toxicological data were reviewed or are required.

Exposure assessments were not required for this application.

### Environmental and Value Assessments

Environmental and value assessments were not required for this application.

### Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Xemium Technical Fungicide, and has found the information sufficient to update the nominal concentration.

### References

- 2477148 2014, Attachment one, DACO: 2.12.1,2.13.3 CBI
- 2477152 2013, Product Identity and Composition of BAS 700 F, DACO: 2.12.1,2.13.3 CBI
- 2477155 2012, Chemical Analysis of Five Batches BAS 700 F Technical Grade Active Ingredient (TGAI) (including Amendment No. 1), DACO: 2.12.1,2.13.3 CBI
- 2490126 2015, DACO 2.1 to 2.9, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9
- 2490131 2015, BASF Response Jan 8 2015 to PMRA deficiency letter dated December 18 2014, DACO: 2.11,2.13.3,2.2
- 2537023 2009, Chemical analysis of five batches BAS 700 F technical grade active ingredient, DACO: 2.13.1 CBI
- 2539964 2015, DACO 2.1 to 2.9, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI

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