

Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2014-3423
Application: Conversion to Ltd. or Term-Submission to fulfill conditions of registration on a product with full registration
Product: Pyroxasulfone Technical
Registration Number: 30573
Active ingredients (a.i.): Pyroxasulfone
PMRA Document Number: 2525861

Purpose of Application

The purpose of this application was to fulfill the conditions of full registration for pyroxasulfone technical. Both conditions were chemistry requirements identified during the initial review of this active ingredient.

Chemistry Assessment

Common Name: Pyroxasulfone
IUPAC Chemical Name: 3-[(5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)pyrazol-4-ylmethylsulfonyl]-4,5-dihydro-5,5-dimethyl-1,2-oxazole
CAS Chemical Name: 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole

Pyroxasulfone Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal guarantee	99.2%
Odour	Slight characteristic odour
Density	1.60 g/cm ³
Vapour pressure	2.4 x 10 ⁻⁶ Pa (estimated at 25°C)
pH	5.03
Dissociation Constant	N/A
Solubility in water	3.49 mg/L (at 20°C)
n-Octanol/water partition coefficient	Log K _{ow} = 2.39 (at 25°C, pH 8.7)

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 sufficient to fulfill the conditions of full registration for pyroxa sulfone technical.

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