

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2010-0978

Application: New/Changes TGAI or ISP Product Chemistry-Specifications

Product: Pyrasulfotole Technical Herbicide

Registration Number: 28737

Active ingredients (a.i.): Pyrasulfotole [PSA]

PMRA Document Number: 1955904

Purpose of Application

The purpose of this application is to amend the specifications of the registered product Pyrasulfotole Technical Herbicide, Registration Number 28737.

Chemistry Assessment

Common name: Pyrasulfotole

IUPAC chemical name: $(5-\text{Hydroxy-1,3-dimethylpyrazol-4-yl})(\alpha,\alpha,\alpha-\text{trifluoro-2-mesyl-p-})$

tolyl)methanone

CAS chemical name: (5-Hydroxy-1,3-dimethyl-1*H*-pyrazol-4-yl)[2-(methylsulfonyl)-4-

(trifluoromethyl)phenyl]methanone



Pyrasulfotole Technical Herbicide has the following properties:

Property	Results
Colour and physical state	Light beige powder
Nominal concentration	97.8 %
Odour	No characteristic odour
Density	1.53 g/mL
Vapour pressure	$2.7 \times 10^{-7} \text{ Pa (at 20 °C)}$
	$6.8 \times 10^{-7} \text{ Pa (at 25 °C)}$
рН	3.03 (1 % suspension)
Solubility in water	pH Solubility (g/L)
	4.2
	7 69.1
	9 49.0
	double-distilled water 2.3
n-Octanol/water partition coefficient	<u>pH</u> <u>log Kow</u>
	4 0.276
	7 -1.362
	9 -1.580

The chemistry requirements for Pyrasulfotole Technical Herbicide are complete.

Health Assessments

A toxicology assessment was not required for this application as process impurities were removed from their respective formulations. These changes in specifications will not affect the toxicological profile.

The changes to the specifications of Pyrasulfotole Technical Herbicide are not expected to alter the residues in food and feed crops treated with end-use products containing pyrasulfotole. Therefore, no increase in dietary exposure to pyrasulfotole is anticipated.

Environmental and Value Assessment

Environmental and value assessments were not required for this application.

Conclusion

The PMRA has completed the assessment of the data provided for this application and has concluded that the changes to the specifications of the product, Pyrasulfotole Technical Herbicide, are acceptable.

References

- 1641652 2008, Pyrasulfotole Technical Herbicide, 08090DC, DACO: 2.1,2.11.1,2.11.2, 2.11.3,2.12,2.12.1,2.12.2,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
- 1641653 2008, Description of Materials Used to Produce the Product and Manufacturing Process of Pyrasulfotole Technical Material Produced by [CBI REMOVED], M-305463-01-1, DACO: 2.11.1, 2.11.2,2.11.3,2.11.4 CBI
- 1641655 2008, Material accountability of pyrasulfotole (AE 0317309) technical material manufactured by [CBI REMOVED] Analytical profile of five production batches, M-303205-01-1, DACO: 2.12.1,2.13.1,2.13.2,2.13.3 CBI
- 1641656 2008, Determination of [CBI REMOVED] of AE 0317309 (Pyrasulfotole), M-303799-01-1, DACO: 2.13.1,2.13.2 CBI
- 1703257 2008, Analytical Method: Determination of [CBI REMOVED] in AE 0317309 (Pyrasulfotole) by photometry, LM-ICL-0168-CD048, DACO: 2.13.1 CBI
- 1703258 2008, Validation of Analytical Method LM-ICL-0168-CD48: Determination of [CBI REMOVED] in AE 0317309 (Pyrasulfotole) by photometry VB-2008-06, DACO: 2.13.1 CBI
- 1872630 2009, Statement regarding the specification limits of [CBI REMOVED] in pyrasulfotole technical material manufactured by [CBI REMOVED] DACO: 2.13.1,2.13.3 CBI

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