



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2008-3692
Application: B.1.1 (Product chemistry – new source (site) same registrant)
Product: Pyrasulfotole Technical Herbicide
Registration Number: 28737
Active ingredients (a.i.): Pyrasulfotole (PSA)
PMRA Document Number: 1708339

Purpose of Application

The purpose of this application is to register a new source (manufacturing site) for Pyrasulfotole Technical Herbicide (Reg. No. 28737).

Chemistry Assessment

Common Name: Pyrasulfotole
IUPAC Chemical Name: (5-Hydroxy-1,3-dimethylpyrazol-4-yl)(α,α,α -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	Result										
Colour and physical state	Light beige powder										
Nominal concentration	97.8%										
Odour	No characteristic odour										
Density	1.53 g/mL (at 20°C)										
Vapour pressure	2.7 x 10 ⁻⁷ Pa (at 20°C) 6.8 x 10 ⁻⁷ Pa (at 25°C)										
pH	3.03 (at 23°C, 1% suspension)										
Solubility in water	<table border="0"> <tr> <td><u>pH</u></td> <td><u>Solubility (g/L)</u> (at 20°C)</td> </tr> <tr> <td>4</td> <td>4.2</td> </tr> <tr> <td>7</td> <td>69.1</td> </tr> <tr> <td>9</td> <td>49.0</td> </tr> <tr> <td>doubly distilled water</td> <td>2.3</td> </tr> </table>	<u>pH</u>	<u>Solubility (g/L)</u> (at 20°C)	4	4.2	7	69.1	9	49.0	doubly distilled water	2.3
<u>pH</u>	<u>Solubility (g/L)</u> (at 20°C)										
4	4.2										
7	69.1										
9	49.0										
doubly distilled water	2.3										

Property	Result	
n-Octanol/water partition coefficient	<u>pH</u>	<u>log K_{ow}</u> (at 23°C)
	4	0.276
	7	-1.362
	9	-1.580

The chemistry requirements for Pyrasulfotole Technical Herbicide have been completed.

Health Assessments

A health assessment was not required for this application.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A value assessment was not required for this application.

Conclusion

The PMRA has carried out a review of the submitted data and have determined that the new manufacturing site for Pyrasulfotole Technical Herbicide is acceptable.

References

- PMRA Reference Document Number**
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 - 1641653 2008, Description of Materials Used to Produce the Product and Manufacturing Process of Pyrasulfotole Technical Material Produced by [PRIVACY INFORMATION 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 [PRIVACY INFORMATION 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

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