

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2010-2955
Application: New/Changes to the technical grade active ingredient – new source (site) same registrant
Product: Assert Technical Herbicide
Registration Number: 20567
Active ingredients (a.i.): Imazamethabenz-methyl
PMRA Document Number English PDF: 2035895

Purpose of Application

The purpose of this application was to register a new manufacturing site of the technical grade active ingredient imazamethabenz-methyl to the currently registered product, Assert Technical Herbicide, Registration Number 20567.

Chemistry Assessment

Common Name: Imazamethabenz-methyl
Chemical Name: Methyl 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-4(*or* 5)-methylbenzoate

Assert Technical Herbicide has the following properties:

Property	Result										
Colour and physical state	Off-white solid										
Nominal concentration	96.5%										
Odour	No discernible odour										
Specific gravity	1.17										
Vapour pressure	2.1 x 10 ⁻³ mPa (at 25°C)										
pH	4.5 (1% w/v dispersion)										
Solubility in water (20°C)	<table border="0"> <tr> <td><u>pH</u></td> <td><u>Solubility (g/L)</u></td> </tr> <tr> <td>purified water</td> <td>2.20</td> </tr> <tr> <td>4</td> <td>2.19</td> </tr> <tr> <td>7</td> <td>1.97</td> </tr> <tr> <td>10</td> <td>2.18</td> </tr> </table>	<u>pH</u>	<u>Solubility (g/L)</u>	purified water	2.20	4	2.19	7	1.97	10	2.18
	<u>pH</u>	<u>Solubility (g/L)</u>									
	purified water	2.20									
	4	2.19									
	7	1.97									
10	2.18										
n-Octanol/water partition coefficient	<table border="0"> <tr> <td><u>pH</u></td> <td><u>log K_{ow}</u></td> </tr> <tr> <td>4</td> <td>1.85</td> </tr> <tr> <td>7</td> <td>1.91</td> </tr> <tr> <td>10</td> <td>1.98</td> </tr> </table>	<u>pH</u>	<u>log K_{ow}</u>	4	1.85	7	1.91	10	1.98		
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The chemistry requirements for Assert Technical Herbicide are complete.

Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

The PMRA has conducted a review of the available information for this application and has concluded that the addition of a new manufacturing site for the production of Assert Technical Herbicide is acceptable.

References

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- 1925661 2010, Imazamethabenz Technical, NUP-09149 Five-Batch Analysis, DACO: 2.13.2, 2.13.3 CBI
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- 2034133 2011, Impurity level confirmation, DACO: 2.13 CBI
- 1674737 2008, Method Validation, DACO: 2.13.1, 2.13.2 CBI
- 1674741 2008, Physico-Chemical Properties - Imazamethabenz Pure, DACO: 2.14.10, 2.14.11, 2.14.4, 2.14.5, 2.14.7, 2.14.9 CBI

ISSN: 1911-8082

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