



## Evaluation Report for Category B, Subcategory 1.3 Application

**Application Number:** 2009-0757  
**Application:** Changes to TGAI Product chemistry - Specifications  
**Product:** Banvel Dicamba Technical Herbicide  
**Registration Number:** 19290  
**Active ingredients (a.i.):** Dicamba [DIC]  
**PMRA Document Number :** 1867027

### Purpose of Application

The purpose of this application was to revise the specifications of the product Banvel Dicamba Technical Herbicide, Registration Number 19290.

### Chemistry Assessment

Common Name: Dicamba  
 Chemical Name: 3,6-dichloro-2-methoxybenzoic acid

Banvel Dicamba Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Colourless crystalline solid
Nominal concentration	92.0 %
Odour	Odourless (pure dicamba)
Specific gravity @ 25°C	1.488
Vapour pressure @ 25°C	1.67 mPa
pH	2.37
Solubility in water	<u>pH</u> <u>Solubility</u>
	1.8                              6.6 g/L
	4.1, 6.8, 8.2              > 250 g/L
n-Octanol/water partition coefficient (K <sub>ow</sub> )	<u>pH</u> <u>K<sub>ow</sub></u>
	5.0                              0.282
	6.8                              0.0132
	8.9                              0.0126

The chemistry requirements for Banvel Dicamba Technical Herbicide have been completed.

### **Health Assessments**

The revisions to the specifications of this product are not expected to alter the toxicological profile of the product. Therefore, no toxicity data were required.

The changes made to the guarantee of Banvel Dicamba Technical Herbicide are considered significant (increased  $\geq 5\%$ ). However, provided that the application rates for the end-use products remain equivalent to the registered application rates for the active, there will be no increase in food residue exposure to dicamba.

### **Environmental and Value Assessments**

Environmental and value assessments were not required for this application.

### **Conclusion**

The PMRA has completed an assessment of available information for Banvel Dicamba Technical Herbicide and has found the information sufficient to support the revision of the product specification.

### **References**

#### **Studies/Information Provided by Applicant/Registrant**

- |         |  |
|---------|--|
| 1430983 | 1994, Dicamba Technical Product Identity and Composition, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI   |
| 1726146 | 2009, Manufacturing Summary, DACO: 2.11.1  |
| 1726148 | 2009, BAS 183 15 H: GLP Validation of BASF Method AFR0073/02, DACO: 2.13.1 CBI   |
| 1726150 | 1999, Analytical method AK-102/1 SAN 837 tech. By-products and supplementary tests, DACO: 2.13.1 CBI   |
| 1726151 | 1999, Validation of analytical method AK-102/1, DACO: 2.13.1 CBI   |
| 1727014 | 2009, Establishing Certified Limits, DACO: 2.12.1 CBI  |
| 1727015 | 2007, Dicamba Technical: Batch Analysis - Determination of Active Ingredient and Contents of Various Impurities in Dicamba Technical (Including Amendment), DACO: 2.13.3 CBI |
| 1841565 | 1992, Determination of [CBI Removed] in Organic Compounds by [CBI Removed]. Method NO. AM-0882-1292-0, DACO: 2.13.1 CBI  |

1841566 2009, Table 1: Quality Control Data for Dicamba Technical (Banvel Dicamba Technical Herbicide) Produced at Beaumont Texas from 2005 to 2007, DACO: 2.13.3 CBI

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