

# **Evaluation Report for Category B, Subcategory B.1.1 Application**

**Application Number:** 2007-0278

**Application:** New TGAI -New Source(site) same registrant **Product:** Sevin Brand Technical Carbaryl Insecticide

**Registration Number:** 18463 **Active ingredients (a.i.):** Carbaryl **PMRA Document Number:** 1694501

## **Purpose of Application**

The purpose of this category B.1.1-S-A-TGAI is to register a new source of active ingredient by the same registrant

#### **Chemistry Assessment**

Common Name: Carbaryl

Chemical Name: 1-naphthalenyl methylcarbamate

Sevin Brand 99% Technical Carbaryl Insecticide has the following properties:

Property	Result
Colour and physical state	Colourless to light tan crystalline solid
Nominal concentration	99.5 %
Odour	essentially odourless
Bulk Density	0.7842 g/mL
Vapour pressure	4.16 x 10 <sup>-5</sup> Pa (23.5 °C)
pН	4 – 7 (as a 1 % aqueous dispersion)
Solubility in water	9.4 mg/L at 20°C (pH 4) 9.1 mg/L at 20°C (pH 7) 7.2 mg/L at 20°C (pH 9)
n-Octanol/water partition coefficient	$\log K_{ow} = 2.36$ at 23 °C

In support of this submission, the applicant has provided full and recent batch data for both sites of production. At the request of the PMRA, the applicant has changed the guarantee of the product from a minimum to a nominal.

#### **Conclusion**

The chemistry requirements for Sevin Brand 99% Technical Carbaryl Insecticide are complete.

### References

## 7.1.1 Studies/Information Provided by Applicant/Registrant

PMRA No.	Title
1519682	2007 Carbaryl Manufacturing Process (source: [ <b>Privacy information removed</b> ]) of the Technical Active Substance, DACO: 2.11.2 CBI
1519684	2007 Impurities of Carbaryl Technical Material Description, Formation & Justification, Spec. No: 102000002972, UVP 05931533, Code: AE F054158, DACO: 2.11.4 CBI
1519690	1999 Carbaryl Determination by HPLC analysis in formulation EXP05671B (WP); ROO4459; Study No: 99-39, C-989-02-99; R&D/CRLDA4N/9915257, DACO: 2.13.1 CBI
1519689	2006 Analytical method Determination of the organic Impurities in Carbaryl Technical Materials by High Performance Liquid Chromatography, AM008205FP2, DACO: 2.13.1 CBI
1519693	2002 Validation of the Analytical Method C-989-02-99 for the Determination of Carbaryl in Carbaryl Technical Material and WP Formulated Products, PA01/051, DACO: 2.13.1 CBI
1519697	2002 The analytical profile of technical grade Carbaryl Code AEF054158 Carbaryl (Technical Grade Active Ingredient), PA01/061, DACO: 2.13.3 CBI
1519696	2007 Chromatographic and Spectral Data in Support of Document M-206778-01-1 (Study PA01/061) AE F054158 (Carbaryl) Technical Material, AFO7/124, DACO: 2.13.3 CBI
1519692	2002 Validation of the Analytical Method LM 040/01-0 for the Determination of Impurities in Carbaryl Technical Material, C018831; PA01/050, DACO: 2.13.1 CBI
1519691	1993 Method Validation for Analysis of Carbaryl, 3521 -F, DACO: 2.13.1 CBI

2005 First Addendum to the Validation Report PA01/050: "Validation of the Analytical Method for the Determination of Impurities in Carbaryl Technical Product" Validation of the Analytical Method AM008205FP1 (formerly AL040/01-1) Regarding Confirmatory Techniques, DACO 2.13.2, 2.14.12 CBI
Material Accountability of AE F054158 (CARBARYL) TECHNICAL MATERIAL Analytical Profile of Five Production Batches from [Privacy information removed], PA05/11, DACO: 2.13.2, 2.13.3 CBI
FAO SPECIFICATIONS AND EVALUATIONS FOR AGRICULTURAL PESTICIDES CARBARYL 1-naphthyl methylcarbamate, DACO: 2.11.2, 2.14.4, 2.14.5, 2.14.7, 2.14.9, 2.14.10, 2.14.11, 2.14.13

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