

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2012-3170  
**Application:** Changes TGAI Chemistry-New Source same registrant  
**Product:** Bayer Coumaphos Technical Insecticide Dust  
**Registration Number:** 26474  
**Active ingredients (a.i.):** Coumaphos  
**PMRA Document Number:** 2258147

### Purpose of Application

The purpose of this application was to register a new manufacturing site of the technical grade active ingredient, Bayer Coumaphos Technical Insecticide Dust (Registration Number 26474).

### Chemistry Assessment

**Common Name:** Coumaphos  
**IUPAC Chemical Name:** O-3-chloro-4-methyl-2-oxo-2H-chromen-7-yl O, O-diethyl phosphorothioate, or 3-chloro-7-diethoxyphosphinothioxyloxy-4-methylcoumarin  
**CAS Chemical Name:** O-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) O,O-diethyl phosphorothioate

Bayer Coumaphos Technical Insecticide Dust has the following properties:

Property	Result								
Colour and physical state	Grey-tan								
Nominal concentration	97 %								
Odour	Characteristic sulfur								
Density at 20°C	481.7 kg/m <sup>3</sup>								
Vapour pressure at 20°C	0.013 mPa								
Water solubility at 25°C	pH 5 1.65 ppm pH 7 1.56 ppm pH 9 1.90 ppm								
n-Octanol/water partition coefficient (K <sub>ow</sub> )	<table border="0"> <tr> <td><u>pH</u></td> <td><u>log K<sub>ow</sub></u></td> </tr> <tr> <td>5</td> <td>4.06</td> </tr> <tr> <td>7</td> <td>4.05</td> </tr> <tr> <td>9</td> <td>3.86</td> </tr> </table>	<u>pH</u>	<u>log K<sub>ow</sub></u>	5	4.06	7	4.05	9	3.86
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The chemistry requirements for Bayer Coumaphos Technical Insecticide Dust have been completed.

### **Health, Environmental and Value Assessments**

No health, environmental or value assessments were required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the available information and has found the information sufficient to support the new source of coumaphos to the currently registered product, Bayer Coumaphos Technical Insecticide Dust.

## References

<b>PMRA No.</b>	<b>Reference</b>
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2217449	2012, Material Accountability Of Coumaphos Technical Manufactured [CBI], DACO: 2.1,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
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