

# **Evaluation Report for Category B, Subcategory 3.1 Application**

Application Number:2007-1397Application:Change in SpecificationsProduct:Chlorpyrifos TechnicalRegistration Number:25823Active ingredients (a.i.):chlorpyrifosPMRA Document Number:1584117

## Background

Chlorpyrifos is a broad spectrum organophosphate insecticide. Chlorpyrifos Technical that is registered under the Pest Control Products Act registration number 25823 is an insecticide intended for manufacturing use only.

### **Purpose of Application**

The purpose of this application is to update the chemistry specifications, including a change in guarantee from 98 % minimum to 98.5 % nominal and to update the impurity profile.

### **Chemistry Assessment**

Common Name:	Chlorpyrifos
Chemical Name:	Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester

Chlorpyrifos Technical has the following properties:

Property	Result
Colour and physical state	amber to light brown solid
Nominal concentration	98.5% as determined by GC
Odour	Mild mercaptanic odour
Density	$1.44 \text{ g/cm}^3$ (at 20°C)
Vapour pressure	2.0 x 10 <sup>-5</sup> mm Hg (at 25°C)
Solubility in water	1.07 mg/L (25°C, pH 7)
n-Octanol-water partition coefficient	cient Log $K_{ow} = 4.7$

The chemistry requirements for Chlorpyrifos Technical have been completed.



### **Health Assessments**

The change in the guarantee, the specifications update, and the impurities profile is not expected to impact the toxicological profile of the product Chlorpyrifos Technical.

#### **Environmental Assessment**

N/A

#### Value Assessment

N/A

#### Conclusion

The PMRA has concluded an evaluation of the application and has found the information sufficient to support the registration of Chlorpyrifos Technical.

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