

## Importation For Manufacturing And Exportation (IMEP) Evaluation Report for Category D.1.0 IMEP, Subcategory B.1.3 Application

**Application Number:** 2014-0064  
**Application:** Importation for Manufacturing and Exportation Program (IMEP)  
 B.1.3 (Product Chemistry – Specifications)  
**Product:** GOKILAHT TECHNICAL INSECTICIDE  
**Registration Number:** 23940  
**Active ingredients (a.i.):** Cyphenothrin (CYN)  
**PMRA Document Number :** 2427361

### Purpose of Application

The purpose of this submission was to update the guarantee of the IMEP product, Gokilaht Technical Insecticide (Reg. No. 23940).

### Chemistry Assessment

**Common Name:** cyphenothrin  
**IUPAC Chemical Name:** ((RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate  
 or  
 (RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate  
 or  
 ( $\pm$ )- $\alpha$ -cyano-3-phenoxybenzyl ( $\pm$ )-cis-trans-chrysanthemate  
 or  
 ( $\Xi$ )-cyano(3-phenoxyphenyl)methyl (1 $\Xi$ ,3 $\Xi$ )-2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropane-1-carboxylate  
**CAS Chemical Name:** cyano(3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propen-1-yl)cyclopropanecarboxylate

Gokilaht Technical Insecticide has the following properties:

Property	Result
Colour and physical state	Yellow liquid
Nominal guarantee	cyphenothrin at 94.7% Available chlorine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins at 28.6% (limits 27.7-29.5%)
Odour	Faint characteristic
Density	1.08 g/mL at 25°C
Vapour pressure at 20°C	0.11 mPa
pH	5.4 (1% slurry)

<b>Property</b>	<b>Result</b>
Solubility in water	< 10 ppb
n-Octanol/water partition coefficient	log K <sub>ow</sub> = 6.29

The chemistry requirements for Gokilaht Technical Insecticide have been completed.

### **Health Assessments**

The proposed change is not expected to impact the toxicity profile of the product.

### **Environmental Assessment**

Environmental assessment was not required for this application.

### **Value Assessment**

Value assessment was not required for this application.

### **Conclusion**

The PMRA has reviewed all available information and has determined that the amended registration of Gokilaht Technical Insecticide is acceptable.

### **References**

#### **PMRA**

<b>Document Number</b>	<b>Title</b>
2379321	2004, Beginning Materials & Manufacturing Process of Gokilaht Technical Grade; Discussion of Formation of Impurities, DACO: 2.11.2, 2.11.3, 2.11.4 CBI
2379322	2003, Enforcement Analytical Methods of Gokilaht Technical Grade, DACO: 2.13.1 CBI
2379323	2002, Preliminary Analysis of Gokilaht Technical, DACO: 2.13.2, 2.13.3 CBI

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