

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2002-2265  
**Application:** Category B, subcategory 1.2 (new source by different registrant)  
**Product:** Aluminium Phosphide Technical  
**Registration Number:** 29385  
**Active ingredients (a.i.):** Aluminium phosphide  
**PMRA Document Number:** 1784376

### Background

The original source of aluminium phosphide technical grade active ingredient “Aluminium Phosphide Technical Insecticide” (Reg. No. 25316) was first registered in 1998. This product is no longer registered.

### Purpose of Application

The purpose of this application is to register a new technical source of aluminium phosphide insecticide. This new source of technical grade active ingredient, “Aluminium Phosphide Technical” (Reg. No. 29385) is intended for use in the manufacture of Weevil-Cide Tablets (reviewed under application no. 2002-2838).

### Chemistry Assessment

Common Name: Aluminium Phosphide  
Chemical Name: Aluminium Phosphide

Property	Result
Colour and physical state	Greenish yellow
Nominal concentration	84%
Odour	Garlic like smell
Density	0.9720 g/ mL
Vapour pressure	Negligible
pH	4.16
Solubility in water	Insoluble or sparingly soluble. Reactive compound
n-Octanol/water partition coefficient	Reactive compound. Not determined

The chemistry requirements for Aluminium Phosphide Technical have been completed.

### Health and Environment Assessments

The health and environmental risk profile of Aluminium Phosphide Technical is expected to be similar to that of the original registered source of Aluminium Phosphide Technical Insecticide.

## **Value Assessment**

A value assessment is not required for technical grade active ingredient products.

## **Conclusion**

The PMRA has completed an evaluation of the subject application and has determined that Aluminium Phosphide Technical is eligible for full registration.

## **References**

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

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- 1134161 2002, Description Of Production Process Of Technical Aluminium Phosphide, DACO: 2.11.1 CBI
- 1134162 2001, Description Of The Materials Used To Produce The Product Aluminium Phosphide 60% Pellet Formulation, DACO: 2.11.2 CBI
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- 1134164 2002, Discussion Of Formation Of Impurities Of Aluminium Phosphide 57% Pellets Formulation, DACO: 2.11.4 CBI
- 1134165 Enclosure-2, Technical Aluminium Phosphide, DACO: 2.12.1 CBI
- 1134166 1999, Analytical Methods To Verify The Certified Limits Of Aluminium Phosphide Tablets (60%) Formulation, 2410, DACO: 2.13.1,2.13.2 CBI
- 1134167 1999, Preliminary Analyses Of Aluminium Phosphide Pellet (60%) Formulation, 2406, DACO: 2.13.1,2.13.2 CBI
- 1134168 1999, Preliminary Analyses Of Aluminium Phosphide Tablet (60%) Formulation, 2405, DACO: 2.13.1,2.13.2 CBI
- 1134169 1999, Preliminary Analysis Of Aluminium Phosphide Bag (60%) Formulation, 2407, DACO: 2.13.1,2.13.2 CBI
- 1134170 2002, Preliminary Analysis Of Aluminium Phosphide Technical, DACO: 2.13.3 CBI
- 1134171 2002, Colour Of Aluminium Phosphide Technical, DACO: 2.14.1 CBI
- 1134172 Physical State, Odour, Melting/Boiling Point/Melting/Boiling Range, Water/Solvent Solubility, Vapour Pressure, Dissociation Constant, Octanol/Water Partition Coefficient, UV/Visible Absorption Spectra, Stability, Storage Stability, DACO: 2.14.10,2.14.11,
- 1134173 2002, Bulk Density Of Aluminium Phosphide Technical, DACO: 2.14.6 CBI
- 1134174 Samples Of Analytical Standards And ROC, DACO: 2.15 CBI

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