

## Evaluation Report for Category B.1.1,B.1.3 Application

**Application Number:** 2010-4094  
**Application:** New Source(site) same registrant, Specifications  
**Product:** 4-Aminopyridine  
**Registration Number:** 30470  
**Active ingredients (a.i.):** 4-Aminopyridine [AMP]  
**PMRA Document Number:** 2242575

### Background

4-aminopyridine was first registered in Canada in 1962; however, it was never given a separate registration from the end-use products. There are currently 3 restricted-class end-use products registered for use as bird repellents (Registration Numbers 12095, 12096, 12098). These products are only for use by or under the supervision of government agencies and pest control operators, and are not for sale to the public.

### Purpose of Application

The purpose of this application was to register a new source of a grandfathered active ingredient, 4-aminopyridine.

### Chemistry Assessment

Common Name: 4-aminopyridine  
IUPAC Chemical Name: pyridin-4-amine  
CAS Chemical Name: 4-pyridinamine

4-Aminopyridine has the following properties:

Property	Result
Colour and physical state	Off-white crystals
Nominal concentration	98.5 %
Odour	slight musty odour
Density at 25°C	1.245 – 1.280 g/mL
Vapour pressure at 23°C	$2.2 - 2.8 \times 10^{-2}$ Pa
pH	11.6
Water solubility at 25°C	111 - 112 g/L

Property	Result
n-Octanol/water partition coefficient ( $K_{ow}$ )	Log $K_{ow}$ = - 0.7 – - 0.9

The chemistry requirements for 4-aminopyridine have been completed.

### Health Assessments

4-aminopyridine is highly acutely toxic via the oral and dermal routes of exposure and slightly acutely toxic via the inhalation route. Although no information on the irritation potential of 4-aminopyridine could be located, systemic effects following oral and dermal exposure are the primary concern for this chemical due to its high acute toxicity. Precautionary labelling regarding skin contact and the requirement to wear protective clothing is specified on the label.

### Environmental and Value Assessment

No environmental or value assessments were required for this application.

### Conclusion

The Pest Management Regulatory Agency has completed an assessment of information available in support of 4-aminopyridine and has found the information sufficient to support the registration of the new source.

### References

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- PMRA #1992025. 4-AP Data Sheet: properties of 4AP. 1 pg. 1969.
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- PMRA #1992032. Identity, Physical & Chemical Properties, and Formulations of Avitrol. 4 pp. 1970.
- PMRA#1992030. Administrative Record of the Registration Standard for 4-Aminopyridine (Avitrol). 116 pp. 1980.

PMRA # 2147263. Identification of the Catalyst (CBI)  
PMRA # 2147264. 2001, Production Process (CBI)  
PMRA # 2147265. 2011. Preliminary Analysis (CBI)  
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PMRA # 2147270. Certificate of Analysis (CBI)  
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PMRA # 2228241. Description of Starting Materials (CBI)  
PMRA # 2228242. Confirmation of intermediate (CBI)  
PMRA # 2228243. Confirmation of Methodology (CBI)  
PMRA # 2228245. Explanation of discrepancy (CBI)  
PMRA # 2229613. Additional Certificate of Analysis (CBI)

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