

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2008-5164  
**Application:** Changes to TGAI Prod Chemistry - New source, same registrant  
**Product:** 6-Benzylaminopurine Technical Plant Growth Regulator  
**Registration Number:** 29020  
**Active ingredients (a.i.):** 6-Benzylaminopurine (BAD)  
**PMRA Document Number English PDF:** 2012040

### Purpose of Application

Fine Agrochemicals Limited had submitted an application to amend the registration of 6-Benzylaminopurine Technical Plant Growth Regulator, to register a new source for manufacturing 6-Benzylaminopurine, by the same registrant. The PMRA has completed an evaluation of the information provided in support of this application.

### Chemistry Assessment

**Common Name:** Benzyladenine (there is no ISO common name for this substance; the name “benzyladenine” has been used in the literature but has no official status)

**Chemical Name:** N-(phenylmethyl)-1H-purin-6-amine

6-Benzylaminopurine Technical Plant Growth Regulator has the following properties:

Property	Result	
Colour and physical state	White powder	
Nominal concentration	99% as determined by HPLC	
Odour	No detectable odour	
Specific gravity	1.32	
Vapour pressure	$5.5 \times 10^{-6}$ Pa at 25°C	
pH	6.69 (1% w/v solution)	
Solubility in water	<u>Solvent</u> <u>Solubility (mg/L)</u>	
	Purified water	65.7 ± 2.1
	pH 4	116 ± 5.6
	pH 7	64.5 ± 2.6
	pH 9	77.8 ± 4.4
n-Octanol/water partition coefficient	<u>pH</u> <u>log Kow</u> <u>Kow</u>	
	4	1.86    72.7
	7	2.16                      145
	9	2.13                      136

The chemistry requirements for 6-Benzylaminopurine Technical Plant Growth Regulator have been completed.

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

Health, environmental and value assessments were not needed for this application.

### **Conclusion**

The PMRA has completed an assessment of the subject application and found the information sufficient to register a new technical source of 6-Benzylaminopurine Technical Plant Growth Regulator.

### **References**

PMRA #	Title
1667609	Applicant's Name and Office Address, DACO: 2.1
1667610	Manufacturer's Name and Office Address and Manufacturing Plant's Name and Address, DACO: 2.2
1667613	Manufacturing Summary, DACO: 2.11.1
1667615	Description of Starting Materials, DACO: 2.11.2
1667617	Detailed Production Process Description, DACO: 2.11.3
1667620	Discussion of Formation of Impurities, DACO: 2.11.4
1667622	Establishing Certified Limits, DACO: 2.12.1
1667624	Control Product Specification Form, DACO: 2.12.2
1667626	Methodology/Validation, DACO: 2.13.1
1667627	Confirmation of Identity, DACO: 2.13.2
1667628	Batch Data, DACO: 2.13.3 CBI
1667629	Batch Data, DACO: 2.13.3
1667631	Impurities of Toxicological Concern, DACO: 2.13.4

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