

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2023-1899  
**Application:** Changes to Technical Grade Active Ingredient Product Chemistry – New Source (Site) Same Registrant  
**Applicant:** Fine Agrochemicals Limited  
**Product:** Gibberellins A<sub>4</sub>+A<sub>7</sub> Technical Plant Growth Regulator  
**Registration Number:** 28769  
**Active ingredient (a.i.):** Gibberellins A<sub>4</sub> and A<sub>7</sub>  
**PMRA Document Number:** 3596614

### Purpose of application

The purpose of this application was to change the manufacturing site for a source of Gibberellins A<sub>4</sub>+A<sub>7</sub> Technical Plant Growth Regulator.

### Chemistry assessment

Common Name: Gibberellins A<sub>4</sub> and A<sub>7</sub>

IUPAC\* Chemical Name: A<sub>4</sub>: (3*S*,3*aR*,4*S*,4*aR*,7*R*,9*aR*,9*bR*,12*S*)-12-hydroxy-3-methyl-6-methylene-2-oxoperhydro-4*a*,7-methano-3,9*b*-propanoazuleno[1,2-*b*]furan-4-carboxylic acid

A<sub>7</sub>: (3*S*,3*aR*,4*S*,4*aR*,7*R*,9*aR*,9*bR*,12*S*)-12-hydroxy-3-methyl-6-methylene-2-oxoperhydro-4*a*,7-methano-9*b*,3-propenoazuleno[1,2-*b*]furan-4-carboxylic acid

CAS† Chemical Name: A<sub>4</sub>: (1*a*,2*β*,4*aa*,4*bβ*,10*β*)-2,4*a*-dihydroxy-1-methyl-8-methylenegibbane-1,10-dicarboxylic acid 1,4*a*-lactone

A<sub>7</sub>: (1*a*,2*β*,4*aa*,4*bβ*,10*β*)-2,4*a*-dihydroxy-1-methyl-8-methylenegibb-3-ene-1,10-dicarboxylic acid, 1,4*a*-lactone

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Gibberellins A<sub>4</sub>+A<sub>7</sub> Technical Plant Growth Regulator has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	95.74%
Odour	No detectable odour
Relative density	1.27 g/mL (20°C)

Property	Result
Vapour pressure	$1.0 \times 10^{-5}$ Pa (at 25°C)
pH	3.83
Solubility in water	127.0 mg/L (20°C, pH 4.4)
n-Octanol/water partition coefficient	Log K <sub>ow</sub> = 2.47 (20°C, pH 4)

The required chemistry data for Gibberellins A4+A7 Technical Plant Growth Regulator have been provided, reviewed, and found to be acceptable.

### **Health, environmental and value assessments**

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

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the change in manufacturing site.

## References

### PMRA

#### Document

Number	Reference
2859885	2009, Validation of [PRIVACY REMOVED] [CBI REMOVED] Determination of Impurities in Technical Gibberellins AG4/GA7 and Determination of GA7 in Technical Gibberellin GA4/GA7, DACO: 2.13.1 CBI
2859886	2009, Validation of [PRIVACY REMOVED] [CBI REMOVED] Determination of Gibberellins GA4 and GA7 in Technical Materials and Formulations Validation for GA47 in GA4/GA7 Technical Gibberellin, DACO: 2.13.1 CBI
3463569	2023, GA47 Tech 2.11.1 to 2.11.4, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3463572	2023, GA47 Tech 2.13.1 to 2.13.4, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3463584	2010, Validation of [PRIVACY REMOVED] "[CBI REMOVED] Determination of Impurities in Technical Gibberellin GA4/GA7 and Determination of GA7 in Technical Gibberellin GA4/GA7 and Formulations" for the Determination of GA7 in the Novagib Formulation, DACO: 2.13.1
3463586	2018, Analysis of Five Representative Production Batches of GA4/7 Technical To Determine % GA4 and GA7, Its Associated Impurities And Water Content, DACO: 2.13.1,2.13.2,2.13.3 CBI
3591147	2024, GA47 Tech 2.11.1 to 2.11.4, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3517077	2023, Gibberellins A4+A7 Technical Plant Growth Regulator: Summary of Microbial Contamination Testing, DACO: M2.10.2,M2.9.3 CBI

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