

## Evaluation Report for Category B, Subcategory 1.3 Application

**Application Number:** 2012-1885  
**Application:** B.1.3 (Product chemistry – specifications)  
**Product:** Cheminova Clodinafop-propargyl Technical Herbicide  
**Registration Number:** 30083  
**Active ingredients (a.i.):** Clodinafop-propargyl (CFP)  
**PMRA Document Number :** 2249251

### Purpose of Application

The purpose of this application was to change the guarantee of the active ingredient, Clodinafop-propargyl, from 99.0% to 98.8% and to update the impurity profile for the product Cheminova Clodinafop-propargyl Technical Herbicide.

### Chemistry Assessment

**Common Name:** Clodinafop-propargyl  
**IUPAC Chemical Name:** prop-2-ynyl (*R*)-2-[4-(5-chloro-3-fluoro-2-pyridyloxy)phenoxy]propionate  
**CAS Chemical Name:** 2-propynyl (2*R*)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]propanoate

Cheminova Clodinafop-propargyl Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Beige solid
Nominal concentration	98.8%
Odour	Odourless
Density at 20°C	1.37 g/cm <sup>3</sup>
Vapour pressure at 25°C	3.19 × 10 <sup>-3</sup> mPa
pH	N/A
Solubility in water	4.0 mg/L (pH 7)
n-Octanol/water partition coefficient	Log K <sub>ow</sub> = 3.9 (25°C)

The chemistry requirements for Cheminova Clodinafop-propargyl Technical Herbicide have been completed.

## Health Assessments

A toxicological evaluation of Cheminova Clodinafop-propargyl Technical Herbicide was not required since the change of the guarantee of the active ingredient from 99.0% to 98.8% is not expected to affect its toxicity profile.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the change in guarantee of the active ingredient, Clodinafop-propargyl, and to update the impurity profile for Cheminova Clodinafop-propargyl Technical Herbicide.

## References

- 2192225      2012, Identification and determination of active ingredient Clodinafop-propargyl (CAS No. 105512-06-9) and impurities in five samples of Clodinafop-propargyl Technical, Batch Nos.: 1019065 (Charge 1), 1019064 (Charge 3), 1019712 (Charge 4), 1020349 (Charge 8) and 1029062 (Charge 9), DACO: 2.1,2.13.3,2.2. CBI
- 2192227      Comparison TAP 008-02 & Existing (current approved) SPSF, DACO: 2.13.3 CBI
- 2192228      2012, Storage stability and Corrosion Characteristics, DACO: 2.14.14 CBI
- 2241613      Additional discussion of impurities, DACO: 2.11.4 CBI

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