

# **Evaluation Report for Category B, Subcategory 1.1 and 1.3 Application**

**Application Number:** 2019-2958

**Application:** Changes TGAI Chemistry-New Source(site) Same Registrant and

Specifications

**Product:** Aminocyclopyrachlor Technical Herbicide

**Registration Number:** 31915

Active ingredients (a.i.): Aminocyclopyrachlor

PMRA Document Number: 3126876

# **Purpose of Application**

The purpose of this application was to register a new source of aminocyclopyrachlor for Aminocyclopyrachlor Technical Herbicide and to change the label guarantee.

## **Chemistry Assessment**

Common Name: Aminocyclopyrachlor

IUPAC\* Chemical Name: 6-amino-5-chloro-2-cyclopropylpyrimidine-4-carboxylic acid 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid

Aminocyclopyrachlor Technical Herbicide has the following properties:

Property	Result	
Colour and physical state	White solid	
Nominal concentration	91.2%	
Odour	Mild fruity odour	
Density	$0.62 - 0.72 \text{ g/cm}^3$	
Vapour pressure	Temp. (°C) 40.0 45.0 50.0 20 25	vapour pressure (10 <sup>-6</sup> Pa) 2.1111 1.0799 1.1694 6.9215 (calculated) 4.9113 (calculated)
рН	3.2 – 3.5 (1% susper	nsion)



<sup>\*</sup> International Union of Pure and Applied Chemistry

<sup>†</sup> Chemical Abstracts Service

Property	Result	
Solubility in water	Media Milli-Q water Buffer (pH 4) Buffer (pH 7) Buffer (pH 9)	solubility (g/L) $2.81 \pm 0.1$ $3.13 \pm 0.26$ $4.20 \pm 0.14$ $3.87 \pm 0.17$
n-Octanol/water partition coefficient	pH 4 7 The active was not de	$\begin{array}{c} \underline{\log K_{ow}} \\ -1.01 \pm 0.01 \\ -2.48 \pm 0.02 \\ \\ \text{etected in the n-octanol phase at pH 9 due to} \\ \text{ity. Consequently log } K_{ow} \text{ at pH 9 was not} \\ \end{array}$

The required chemistry data for Aminocyclopyrachlor Technical Herbicide have been provided, reviewed, and found to be acceptable.

#### **Health Assessments**

The toxicological profile of the new source of aminocyclopyrachlor is considered to be equivalent to that of the currently registered source.

### **Environmental and Value Assessments**

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 sufficient to amend the registration of Aminocyclopyrachlor Technical Herbicide.

# References

<b>PMRA</b>	References
<b>Document</b>	
Number	
3006421	2019, Aminocyclopyrachlor (BCS-CD26868; MAT28) description of the
	manufacturing process of the technical grade active substance (Specification No. 102000036795), DACO:2.11.1,2.11.2,2.11.3 CBI
3006422	2019, Aminocyclopyrachlor technical grade active substance: Discussion of
	formation of impurities (Specification No.: 102000036795), DACO: 2.11.4 CBI
3006424	2019, Analytical method - Determination of (CBI Removed) in pure and technical
	grade aminocyclopyrachlor (BCS-CD26868) by (CBI Removed), DACO: 2.13.1 CBI.
3006425	2019, Validation of the (CBI Removed) analytical method (CBI Removed)
	determination of (CBI Removed) in technical grade and pure aminocyclopyrachlor
	(BCS-CD26868) by (CBI Removed), DACO: 2.13.1 CBI.
3006426	2011, Description and validation of the analytical method for determination of
	DPX-MAT28 in technical grade aminocyclopyraclor, DACO: 2.13.1 CBI.
3006428	2008, Aminocyclopyrachlor (DPX-MAT28) - Determination of (CBI Removed) in
	technical aminocyclopyrachlor (DPX-MAT28)-(CBI Removed), DACO: 2.13.1
	CBI
3006429	2019, Material accountability of technical aminocyclopyrachlor (BCS-CD26868 /
	DPX-MAT28), DACO: 2.13.1,2.13.2,2.13.3 CBI.
3006430	2019, Analytical method - Determination of (CBI Removed) in pure and technical
	grade aminocyclopyrachlor (BCS-CD26868) by (CBI Removed) DACO: 2.13.1
	CBI
3006431	2019, Validation of the (CBI Removed) - Determination of (CBI Removed) in
	technical grade and pure aminocyclopyrachlor (BCS-CD26868) by (CBI
	Removed), DACO: 2.13.1 CBI
3083757	Clarification response, DACO. 2.11.3.
3092679	Aminocyclopyrachlor Technical Herbicide - Clarification response, DACO 2.13.1

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