

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

**Application Number:** 2016-1971  
**Application:** Changes to the Technical Grade Active Ingredient Product Chemistry – New Source (site) same registrant and specifications  
**Product:** Aim (Carfentrazone-ethyl) Technical Herbicide  
**Registration Number:** 28572  
**Active ingredients (a.i.):** Carfentrazone-ethyl  
**PMRA Document Number:** 2707058

### Purpose of Application

The purpose of this application was to add a new source to Aim (Carfentrazone-ethyl) Technical Herbicide and to amend the specifications of a currently registered formulation based on updated batch data.

### Chemistry Assessment

**Common Name:** Carfentrazone-ethyl  
**IUPAC\* Chemical Name:** Ethyl (RS)-2-chloro-3-{2-chloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorophenyl}propionate  
**CAS† Chemical Name:** Ethyl  $\alpha$ ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Aim (Carfentrazone-ethyl) Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Yellow-orange liquid
Nominal concentration	91.7%
Odour	Faint petroleum-like odour
Density	1.28 – 1.45 g/cm <sup>3</sup> at 25°C
Vapour pressure	1.6 x 10 <sup>-5</sup> Pa at 25°C 7.2 x 10 <sup>-6</sup> Pa at 20°C
pH	5.2

Property	Result
Solubility in water	12 µg/mL at 20°C 22 µg/mL at 30°C
n-Octanol/water partition coefficient	log K <sub>ow</sub> = 3.36

The required chemistry data for Aim (Carfentrazone-ethyl) Technical Herbicide 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 available information and can support the amendment to Aim (Carfentrazone-ethyl) Technical Herbicide.

## References

PMRA Document Number	References
2630976	2016, Aim (Carfentrazone-Ethyl) Technical Herbicide: Applicants Name and Address and Product Trade Name, DACO: 2.1 CBI
2630977	2013, Carfentrazone-ethyl Technical (CBI Removed): Analysis and Certification of Product Ingredients, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2630978	2011, Carfentrazone-ethyl Technical (CBI Removed): Analysis and Certification of Product Ingredients, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2630979	2016, Aim (Carfentrazone-Ethyl) Technical Herbicide: Manufacturers Name and Address, DACO: 2.2 CBI
2701405	2016, AIM (Carfentrazone-ethyl) Technical Herbicide (PCP 28572): Response to Clarification Questions, DACO: 2.11.4 CBI

ISSN: 1911-8082

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