



## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2008-3896  
**Application:** B.1.1 – New Source (site) for Same Registrant  
**Product:** Aim (Carfentrazone-ethyl) Technical Herbicide  
**Registration Number:** 28572  
**Active ingredients (a.i.):** Carfentrazone-ethyl  
**PMRA Document Number :** 1825627

### Purpose of Application

The purpose of this application is to add a new source (site) of manufacture of Aim (Carfentrazone-ethyl) Technical Herbicide by the current registrant.

### Chemistry Assessment

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

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	1.2 x 10 <sup>-7</sup> mm Hg (1.6 x 10 <sup>-5</sup> Pa) at 25°C 5.4 x 10 <sup>-8</sup> mm Hg (7.2 x 10 <sup>-6</sup> Pa) at 20°C
pH	5.2
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 chemistry requirements for AIM (Carfentrazone-ethyl) Technical Herbicide have been completed.

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

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

### **Conclusion**

The PMRA has completed an assessment of the subject application and has found the information provided sufficient to support the registration of the new source (site) of manufacture for Aim (Carfentrazone-ethyl) Technical Herbicide

### **References**

- PMRA 1150608 Additional Physical Properties, DACO: 2.14.1,2.14.13,2.14.3,2.14.5,2.14.6, 2.14.7,2.14.8 CBI
- PMRA 1150610. Physical Properties, DACO: 2.14.1,2.14.11,2.14.12,2.14.2,2.14.3,2.14.4, 2.14.5,2.14.6, 2.14.7,2.14.8,2.14.9 CBI
- PMRA 1150680. Purity and Stability Technical DACO: 2.13.4,2.14.13 CBI
- PMRA 1646450. 2008, Chemistry 2.1 to 2.9, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
- PMRA 1150611. Product Identity and Disclosure of Ingredients Description of Starting Materials and Manufacturing Process Discussion on the Formation of Impurities DACO: 2.11.2, 2.11.3,2.11.4,2.13.1,2.15,2.3,2.7,2.8,2.9 CBI
- PMRA 1321727. Carfentrazone-ethyl Technical, Analysis and Certification of Product Ingredients, DACO: 2.13.3 CBI
- PMRA 1742249. 2009, Responses to Address PMRA Deficiencies and Requirements DACO: 2.13.1,2.13.2,2.13.4 CBI
- PMRA 1321727. Carfentrazone-ethyl Technical, Analysis and Certification of Product Ingredients, DACO: 2.13.3 CBI
- PMRA 1646448 2008, Carfentrazone-ethyl Technical: Analysis and Certification of Product Ingredients, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI

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