

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

**Application Number:** 2008-2381  
**Application:** New source for the same registrant and changes to the chemistry specifications.  
**Product:** Cyfluthrin Technical  
**Registration Number:** 25672  
**Active ingredients (a.i.):** Cyfluthrin  
**PMRA Document Number :** 1801717

### Purpose of Application

The purpose of this application is to register an alternate source site for the manufacture of Cyfluthrin Technical (Registration number 25672) as well as an amendment of the composition data for the currently registered site.

### Chemistry Assessment

**Common Name:** cyfluthrin  
**Chemical Name:** cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

Cyfluthrin Technical has the following properties:

Property	Result
Colour and physical state	brown/amber semi-solid
Nominal concentration	95.6%
Odour	slight aromatic
Density/Specific gravity	1.246 g/cm <sup>3</sup>
Vapour pressure (20°)	0.0044 mPa
pH	N/A since the product is only slightly soluble in water
Solubility in water	Between 1.9-2.9 µg/L (at pH 7)
n-Octanol/water partition coefficient (20°)	Log K <sub>ow</sub> = 5.91-6.04

The chemistry requirements for Cyfluthrin Technical have been completed.

## Health Assessments

The amendment to the specifications and the addition of a new manufacturing site did not impact the toxicity of this technical grade active ingredient.

The food residue profiles of the proposed Cyfluthrin Technical are expected to be similar to that of the original registered source. Accordingly, no increase in dietary exposure is anticipated.

## Environmental Assessment

An environmental assessment was not required for this application.

## Value Assessment

A value assessment was not required for this application.

## Conclusion

The PMRA has completed an assessment of available information for Cyfluthrin Technical and has found the information sufficient to support the addition of the production site and changes to the chemistry specifications.

## References

PMRA Document Number	Reference
1609633	2004, Product Chemistry of Baythroid Technical Insecticide, DACO: 2.0,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.3,2.2,2.3,2.4,2.5,2.6,2.7,2.8
1609634	2004, Product Chemistry of Baythroid Technical Insecticide, DACO: 2.0,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.3,2.2,2.3,2.4,2.5,2.6,2.7,2.8 CBI
1609635	2008, Product Chemistry of Baythroid Technical Insecticide (Produced at an Alternate Production Facility), DACO: 2.0,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.3,2.2,2.3,2.4,2.5,2.6,2.7,2.8
1609636	2008, Product Chemistry of Baythroid Technical Insecticide (Produced at an Alternate Production Facility), DACO: 2.0,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.13.1,2.13.3,2.2,2.3,2.4,2.5,2.6,2.7,2.8 CBI
1790175	1988, Part 2 - Product Chemistry of Baythroid Technical, DACO: 2.11,2.11.1,2.11.2,2.11.3 CBI
1792491	2006, Material Accountability of Cyfluthrin (FCR 1272 / AE F057122), DACO: 2.13.1,2.13.3 CBI
1790172	DACO: 0.8
1792488	DACO: 0.8

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