

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2014-2081
Application: New/Changes TGAI – new source same registrant and specifications
Product: Cyprosulfamide Manufacturing Use Concentrate
Registration Number: 29072
Active ingredients (a.i.): Cyprosulfamide
PMRA Document Number : 2543725

Purpose of Application

The purpose of this application was twofold: to add an alternate manufacturing method to the registered F.1 source of cyprosulfamide safener (to be called F.2) and to register a new source (F.3) under the same registration number, PCPA Reg. #29072.

Chemistry Assessment

Common Name: Cyprosulfamide
IUPAC* Chemical Name: *N*-[4-(cyclopropylcarbamoyl)benzene-1-sulfonyl]-2-methoxybenzamide (PIN)
 or
N-[4-(cyclopropylcarbamoyl)phenylsulfonyl]-*o*-anisamide
 or
N-[4-(cyclopropylcarbamoyl)phenylsulfonyl]-2-methoxybenzamide
CAS† Chemical Name: *N*-[[4-[(cyclopropylamino)carbonyl]phenyl]sulfonyl]-2-methoxybenzamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Cyprosulfamide Manufacturing Use Concentrate has the following properties:

Property	Result
Colour and physical state	White powder
Nominal concentration	98.7%
Odour	No characteristic odour
Relative density	1.64
Vapour pressure	1.10×10^{-8} Pa (at 25°C)

Property	Result
pH	4.8
Solubility in water	<u>pH</u> <u>Solubility (g/L)</u>
	buffer 4 (target pH 4) 0.0034
	buffer 6.9 (target pH 7) 1.09
	buffer 8.1 (target pH 9) 26.1
	bidistilled water (pH 5.1) 0.0125
n-Octanol/water partition coefficient	<u>pH (at 23 °C)</u> <u>log K_{ow}</u>
	4 1.77
	7 -0.80
	9 -1.81

The chemistry requirements for Cyprosulfamide Manufacturing Use Concentrate have been fulfilled.

Health Assessments

The alternate manufacturing method for cyprosulfamide and cyprosulfamide manufacturing in the new site were considered toxicologically equivalent to the currently registered source. No additional toxicological data are required at this time.

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 in support of the product, Cyprosulfamide Manufacturing Use Concentrate, and has found the information sufficient to add an alternate manufacturing method to the registered F.1 source of cyprosulfamide safener and to register a new source under the same registration number, PCPA Reg. #29072.

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