



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2017-2869
Application: Changes to TGAI Chemistry, New manufacturing site, same registrant.
Product: Chemathoate Technical
Registration Number: 19067
Active ingredient (a.i.): Dimethoate
PMRA Document Number : 2824220

Purpose of Application

The purpose of this application was to register an additional manufacturing site for Chemathoate Technical.

Chemistry Assessment

Common Name: Dimethoate
IUPAC* Chemical Name: *O,O*-dimethyl *S*-methylcarbamoylmethyl phosphorodithioate
CAS† Chemical Name: *O,O*-dimethyl *S*-[2-(methylamino)-2-oxoethyl] phosphorodithioate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Chemathoate Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.4%
Odour	Mercaptan
Density	1.31 g/mL
Vapour pressure	2.5 mPa (at 25°C)
Solubility in water	25.9 g/L (20°C, pH 4.2)
n-Octanol/water partition coefficient	Log K _{ow} = 0.75

The required chemistry data for Chemathoate Technical 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 information provided, and has found the information sufficient to support the additional manufacturing site for Chemathoate Technical.

References

PMRA

Document

Number Reference

2770666 2017, Applications Name and Office Address, DACO: 2.1,2.2 CBI

2770667 2017, Dimethoate Technical Description of Starting Materials and Manufacturing Process Discussion of Formation of Impurities, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI

2770668 2017, Specification Dimethoate Technical (GE3603), DACO: 2.12.1

2770669 2017, Dimethoate Technical (TL): Analysis and Certification of Product Ingredients, DACO: 2.13.1, 2.13.2 CBI

2770671 2017, Dimethoate Technical (TL): Analysis and Certification of Product Ingredients, DACO: 2.13.3 CBI

2770672 2017, Explanation for CAS Number of Impurity, DACO: 2.11.4 CBI

2818461 2017, Chemathoate Technical (PCP 19067) Response to PMRA Clarification Questions for Submission number 2017-2869 , DACO: 2.12 CBI

ISSN: 1911-8082

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