



Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2017-1503
Application: New/Changes TGAI Product Chemistry - Specifications
Product: N,N-Diethyl-m-toluamide
Registration Number: 23785
Active ingredient (a.i.): DEET plus related active toluamides
PMRA Document Number: 2839932

Purpose of Application

The purpose of this application was to amend the manufacturing process of the registered technical product N,N-Diethyl-m-toluamide.

Chemistry Assessment

Common Name: DEET
IUPAC* Chemical Name: N,N-Diethyl-*m*-toluamide
N,N-Diethyl-*p*-toluamide
N,N-Diethyl-*o*-toluamide
CAS† Chemical Name: Benzamide, N,N-diethyl-3-methyl-
Benzamide, N,N-diethyl-4-methyl-
Benzamide, N,N-diethyl-2-methyl-

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

N,N-Diethyl-m-toluamide has the following properties:

Property	Result
Colour and physical state	Clear colourless liquid
Nominal concentration	DEET (N,N-Diethyl-m-toluamide).....98.5% Related Active Toluamides.....0.38%
Odour	Odourless
Specific gravity	0.998
Vapour pressure	0.75 Pa at 20°C
pH	5.73
Solubility in water	Insoluble in water

Property	Result
n-Octanol/water partition coefficient	2.02

The required chemistry data for N,N-Diethyl-m-toluamide have been provided, reviewed, and found to be acceptable.

Health Assessments

The changes in the manufacturing process of N,N-Diethyl-m-toluamide are not expected to have an impact on the toxicological profile; thus, no additional toxicology data were required.

Occupational and dietary exposure assessments were not required for this application.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Agency has completed an assessment of the information provided, and has found the information sufficient to support the amendment of the manufacturing process of the N,N-Diethyl-m-toluamide.

References

PMRA Document Number	Reference
2744375	2017, N,N-Diethyl-m-toluamide Part 2.11: Manufacturing Methods for the TGAI, DACO: 2.1,2.11,2.12.1,2.13.1,2.13.3,2.2 CBI

ISSN: 1911-8082

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