

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2016-0531
Application: Changes in TGAI product chemistry – new source same registrant
Product: Hydramethylnon Technical Insecticide
Registration Number: 19525
Active ingredients (a.i.): Hydramethylnon
PMRA Document Number: 2760865

Purpose of Application

The purpose of this application was to add a new manufacturing site and to update the plant name of the manufacturing site for Hydramethylnon Technical Insecticide.

Chemistry Assessment

Common Name: hydramethylnon
 IUPAC* Chemical Name: 5,5-dimethylperhydropyrimidin-2-one 4-trifluoromethyl- α -(4-trifluoromethylstyryl)cinnamylidenehydrazone
 CAS† Chemical Name: tetrahydro-5,5-dimethyl-2(1*H*)-pyrimidinone [3-[4-(trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2-propen-1-ylidene]hydrazone

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Hydramethylnon Technical Insecticide has the following properties:

Property	Result
Colour and physical state	Orange/yellow crystalline solid
Nominal concentration	98.0%
Odour	odourless
Density	0.51-0.63 g/mL
Vapour pressure	2.66 x 10 ⁻⁶ Pa at 25°C 8.0 x 10 ⁻⁶ Pa at 45°C
pH	N/A
Solubility in water	5 µg/L (25°C)

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 2.31

The required chemistry data for Hydramethylnon Technical Insecticide 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 add a manufacturing site and to update the plant name of the manufacturing site for Hydramethylnon Technical Insecticide.

References

PMRA Document Number	Reference
2604020	2015, Hydramethylnon Technical Insecticide (DACO 2.1 to 2.9) - Chemistry Requirements for the Registration of a Technical Grade of Active Ingredient (TGAI) or an Integrated System Product, DACO: 2.1,2.10,2.2,2.3,2.3.1,2.4, 2.5,2.6,2.7,2.8,2.9 CBI
2604021	2012, Characterisation of Five Typical Production Batches of Hydramethylnon Technical Grade Active Ingredient Manufactured by [CBI removed], DACO: 2.13.3 CBI
2604022	2009, Composition Analysis for Technical Hydramethylnon, DACO: 2.11.1,2.11.2,2.11.3,2.12.1 CBI
2717206	2017, Part 2 BASF Response to PMRA Deficiency Letter dated October 18 2016, DACO: 2.11,2.11.2,2.11.3,2.11.4,2.12,2.13.1 CBI
2717209	2017, Hydramethylnon TGAI Description of the Manufacturing Process, DACO: 2.11,2.11.2,2.11.3,2.11.4 CBI

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