

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2010-3046
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: NASA Chlorpyrifos Technical
Registration Number: 31418
Active ingredients (a.i.): chlorpyrifos
PMRA Document Number : 2432892

Background

The source of chlorpyrifos used to determine chemical equivalence was Registration Number 25823.

Purpose of Application

The purpose of this application was to register a new source of the active ingredient, chlorpyrifos, by a different Registrant.

Chemistry Assessment

Common Name: Chlorpyrifos
IUPAC Chemical Name: *O,O*-diethyl *O*-3,5,6-trichloro-2-pyridyl phosphorothioate
CAS Chemical Name: *O,O*-diethyl *O*-(3,5,6-trichloro-2-pyridinyl) phosphorothioate

NASA Chlorpyrifos Technical has the following properties:

Property	Result
Colour and physical state	White to off-white crystalline powder
Nominal concentration	98.5%
Odour	Odourless
Density	0.977 g/mL at 20°C
Vapour pressure	2.7 mPa at 25°C
pH	N/A
Solubility in water	0.0016 g/L

Property	Result
n-Octanol/water partition coefficient (K_{ow})	Log K_{ow} = 4.7

The chemistry requirements for NASA Chlorpyrifos Technical have been completed.

Health and Environmental Assessments

As the new source of chlorpyrifos is chemically equivalent to the registered source, the health and environmental risk profiles are expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

Value Assessment

A value assessment is not required for technical grade active ingredient products.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that it can support the registration of NASA Chlorpyrifos Technical.

References

PMRA Document Number	Reference
1930116	2010, Chemistry Part 2-NASA Chlorpyrifos-Chemistry-CPP TECH CANADA-Volume 1 not confidential, DACO: 2.1,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.2,2.14.3,2.14.4,2.14.5, 2.14.6, 2.14.7,2.14.8,2.14.9,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9
1930117	2010, Chemistry Part 2-NASA Chlorpyrifos-Chemistry-CPP TECH CANADA-Volume 2 confidential, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
1930118	2009, ANALYSIS OF CHLORPYRIFOS ACTIVE INGREDIENT CONTENT IN FIVE REPRESENTATIVE PRODUCTION BATCHES OF CHLORPYRIFOS TECHNICAL USING GAS CHROMATOGRAPH, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
2034508	2009, METHOD VALIDATION FOR ANALYSIS OF CHLORPYRIFOS TECHNICAL GRADE ACTIVE INGREDIENT (TGAI) AND ASSOCIATED IMPURITIES, DACO: 2.13.1,2.13.2 CBI

2034509	2009, ANALYSIS OF FIVE REPRESENTATIVE PRODUCTION BATCHES OF CHLORPYRIPHOS TECHNICAL GRADE ACTIVE INGREDIENT (TGAI) TO DETERMINE % CHLORPYRIPHOS AND TO QUANTIFY ASSOCIATED IMPURITIES, DACO: 2.13.1,2.13.2 CBI
2071937	2011, ANALYSIS METHOD OF CHLORPYRIFOS TECHNICAL/[CBI REMOVED], DACO: 2.13.1,2.13.4 CBI
2071938	2011, Method Validation for Analysis of Chlorpyriphos Technical Grade Active Ingredients and [CBI removed] as its associated Impurity., DACO: 2.13.1,2.13.4 CBI
2071939	2011, [CBI revmoed] - chlorpyrifos chromatograms- [CBI removed] free, DACO: 2.13.3 CBI
2071940	2011, [CBI removed] - graphs, DACO: 2.13.3 CBI
2071941	2010, Certificate of analysis-Chlorpyrifos, DACO: 2.13.3 CBI

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