Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-0154
Application: Application Subject to the Protection of Proprietary Interests in Pesticide Data (PPIP) Policy - Equivalency/Data Compensation Assessment
Product: ProPhyt Technical
Registration Number: 35079
Active ingredient (a.i.): Mono- and di-potassium salt of phosphorous acid
PMRA Document Number: 3515255

Purpose of Application

The purpose of this application was to register a new source of mono- and di-potassium salts of phosphorous acid, ProPhyt Technical, based on a registered precedent product.

Chemistry Assessment

Common Name: Potassium phosphite
IUPAC* Chemical Name: Monopotassium phosphonate
Dipotassium phosphonate

CAS† Chemical Name: Phosphonic acid, potassium salt (1:1)
Phosphonic acid, potassium salt (1:2)

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

ProPhyt Technical has the following properties:

Property	Result
Colour and physical state	Colourless liquid
Nominal concentration	54.5%
Odour	Odourless
Density	1.450 g/cm^3 at 20°C
Vapour pressure	Not applicable as the product is an aqueous solution.
pH	6.03 (1% w/v)
Solubility in water	Miscible

Canada

Property	Result
n-Octanol/water partition coefficient	Insoluble in n-octanol.

The required chemistry data for ProPhyt 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 acceptable to support the registration of ProPhyt Technical.

References

PMRA Document Number	Reference
3425653	1999, Potassium phosphite: Determination of General Physico-Chemical Properties, DACO: 2.14.1,2.14.15,2.14.2,2.14.3,2.14.6,2.16,830.7000
3425658	2022, Manufacturing Process Potassium Phosphonates Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.2,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3425660	2022, Product Chemistry Supplement for ProPhyt Technical, DACO: 2.1,2.13.3,2.14.1,2.14.10,2.14.11,2.14.12,2.14.5,2.14.7,2.14.8,2.14.9,2.2,2.3,2.3.1
3425669	2022, Potassium Phosphonates Technical: Preliminary Analysis, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI