

Evaluation Report for Category L Subcategory 1.1 Application

Application Number: 2019-4373
Application: Submission Subject to *Protection of Proprietary Interests in Pesticide Data* Policy- Equivalency/Data Compensation Assessment
Product: Metasol TK-100 Technical II
Registration Number: 34216
Active ingredient (a.i.): Thiabendazole
PMRA Document Number : 3112491

Purpose of Application

The purpose of this application was to register Metasol TK-100 Technical II, a new source of thiabendazole based on a precedent.

Chemistry Assessment

Common Name: Thiabendazole
IUPAC* Chemical Name: 2-(thiazol-4-yl)-1*H*-benzimidazole
CAS† Chemical Name: 2-(4-thiazolyl)-1*H*-benzimidazole

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Metasol TK-100 Technical II has the following properties:

Property	Result
Colour and physical state	Traffic white solid
Nominal concentration	99.4%
Odour	Odourless
Density	1.36 g/mL
Vapour pressure	0.91 µPa at 20°C 2.0 µPa at 25°C
pH	7.75 (1% solution)
Solubility in water	22.54 mg/L

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 1.55 at 30°C

The required chemistry data for Metasol TK-100 Technical II 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 registration of Metasol TK-100 Technical II.

References

PMRA Document Number	References
3026624	2019, Metasol TK-100 Technical II Product Chemistry Supplement to Support PMRA Registration, DACO: 2.1,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3026626	2016, Chemical and Physical Characterization of Thiabendazole TGAI: Color, Physical State, Odor, pH, Density, Dissociation Constant, Stability, UV-Vis, Oxidation/Reduction, Melting Point, Partition Coefficient, Solubility and Vapor Pressure, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7, 2.14.8,2.14.9,830.7000
3026628	2016, Preliminary Analysis and Enforcement Analytical Method of Thiabendazole TGAI, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3100270	2020, Metasol TK-100 Technical II - Supplement to the 5-Batch Analysis Report, DACO: 2.13.3 CBI

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