

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-4967
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: Maxunitech Flumioxazin Technical
Registration Number: 35281
Active ingredient (a.i.): Flumioxazin
PMRA Document Number: 3490117

Purpose of Application

The purpose of this application was to register Maxunitech Flumioxazin Technical, a new source of the technical grade active ingredient, flumioxazin, based on a registered precedent product.

Chemistry Assessment

Common Name: Flumioxazin
 IUPAC* Chemical Name: 2-[7-fluoro-3-oxo-4-(prop-2-yn-1-yl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione
 CAS† Chemical Name: 1H-isoindole-1,3(2H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propyn-1-yl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Maxunitech Flumioxazin Technical has the following properties:

Property	Result
Colour and physical state	Light brown powder
Nominal concentration	99.2 %
Odour	Odourless
Density	0.585 – 0.77 g/mL at 20 °C
Vapour pressure	0.321 mPa at 22 °C
pH	5.67, 1% w/v
Solubility in water	1.79 g/mL at 25 °C

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 2.55 at pH 5.93

The required chemistry data for Maxunitech Flumioxazin 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 Maxunitech Flumioxazin Technical.

References

PMRA

Document

Number

Reference

3392789	2022, Manufacturing Process for Maxunitech Flumioxazin Technical, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3392791	2015, Five Batch Analysis of Flumioxazin Technical, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3392792	2016, Flumioxazin TC Physical and Chemical Characteristics Color, Physical State, Odor, pH, and Density Bulk Density, DACO: 2.14.1,2.14.15,2.14.2,2.14.3,2.14.6,830.7000 CBI
3392793	2022, Maxunitech Flumioxazin Technical_TGAI Chemistry Summary Information, DACO: 2.1,2.12.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14, 2.14.4,2.14.5,2.14.7,2.14.8,2.14.9,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3418764	2016, Five Batch Analysis of Flumioxazin Technical Amd01, DACO: 2.13.4 CBI
3481564	2023, Letter for Max Rudong MR-005-PC Flumioxazin TC-PH test item sample preparation, DACO: 2.14.15 CBI

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