

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-3406
Application: Submissions Subject to Protection of Proprietary Interests in Pesticide Data Policy/ Data Compensation Assessment
Product: NCI S-Metolachlor Technical
Registration Number: 34568
Active ingredient (a.i.): S-Metolachlor and R-Enantiomer
PMRA Document Number : 3398664

Purpose of Application

The purpose of this application was to register a new source of S-metolachlor and R-enantiomer, NCI S-Metolachlor Technical, based on a precedent.

Chemistry Assessment

Common Name: S-metolachlor and R-enantiomer
IUPAC* Chemical Name: mixture of 80-100% 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-[(2*S*)-1-methoxypropan-2-yl]acetamide and 20-0% 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-[(2*R*)-1-methoxypropan-2-yl]acetamide
CAS† Chemical Name: 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-[(1*S*)-2-methoxy-1-methylethyl]acetamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NCI S-Metolachlor Technical has the following properties:

Property	Result
Colour and physical state	Yellow-red liquid
Nominal concentration	98.34 %
Odour	Faintly aromatic
Density	1.111 g/mL
Vapour pressure	2.19×10^{-3} Pa
pH	7.1
Solubility in water	493 mg/L (at pH 7.1)
n-Octanol/water partition coefficient	$\log K_{ow} = 3.1$ (at pH = 7.0, 20°C)

The required chemistry data for NCI S-Metolachlor 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 provide and has found it sufficient to support the registration of NCI S-Metolachlor Technical.

References

PMRA Document Number	References
3252854	2021, Additional Chemistry Information for NCI S-Metolachlor Technical, DACO: 2.1,2.13.3,2.2,2.3,2.3.1
3252855	2021, Manufacturing Process and Quality Control of S metolachlor Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.2 CBI
3252856	2018, Determination of [CBI removed] in S-Metolachlor, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3252857	2014, Determination of Active Content and Impurity Profile of S-Metolachlor, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3252858	2014, Determination of Physical-chemical properties of S-Metolachlor, DACO: 2.14.1,2.14.11,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,2.14.5,2.14.6,2.14.7, 2.14.8,2.14.9,2.2,2.4,2.5,2.6,2.7,2.8,2.9,830.7000
3341266	2022, Justification of the Presence of Impurities of S metolachlor Technical, DACO: 2.11.4 CBI

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