Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2021-4929
Application: Changes to Technical Grade Active Ingredient (Product Chemistry) - Specifications
Product: Sodium Diflufenzopyr Technical Herbicide
Registration Number: 29004
Active ingredient (a.i.): Diflufenzopyr (present as sodium salt)
PMRA Document Number : 3495349

Purpose of Application

The purpose of this application was to update the manufacturing process for Sodium Diflufenzopyr Technical Herbicide.

Chemistry Assessment

Common Name: Diflufenzopyr (present as sodium salt)
IUPAC* Chemical Name: sodium 2-{(e)-1-[4-(3,5-difluorophenyl)semicarbazono]ethyl} nicotinate
CAS† Chemical Name: Sodium 2-[(1E)-1-[2-[[(3,5-difluorophenyl)amino]carbonyl] hydrazinylidene]ethyl]-3-pyridinecarboxylate

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

Sodium Diflufenzopyr Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Off-white
Nominal concentration	86.3%
Odour	Odourless
Density	0.40 g/mL (25°C)
Vapour pressure	Not required for the salt.
pH	10.04
Solubility in water	42.5 g/L
n-Octanol/water partition coefficient	pH K_{ow} log K_{ow} 5.0 2.76 0.44 7.0 0.34 -0.47 9.0 0.17 -0.77

The required chemistry data for Sodium Diflufenzopyr Technical Herbicide have been assessed

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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 updating the manufacturing process for Sodium Diflufenzopyr Technical Herbicide.

References

PMRA Document Number	Reference
3320777	2022, Batch Data, DACO: 2.13.3 CBI
3464649	2023, Product Identity and Composition of Diflufenzopyr Sodium, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.13.4 CBI

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