

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-3695
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Zhongshan Chemical Canada Corp.
Product: ZS 2,4-D Technical Acid
Registration Number: 35244
Active ingredient (a.i.): 2,4-D (present as acid)
PMRA Document Number: 3604957

Purpose of Application

The purpose of this application was to register ZS 2,4-D Technical Acid, a new source of 2,4-D (present as acid), based on a registered precedent product.

Chemistry Assessment

Common Name: 2,4-D
IUPAC* Chemical Name: (2,4-Dichlorophenoxy)acetic acid
CAS† Chemical Name: 2-(2,4-Dichlorophenoxy)acetic acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ZS 2,4-D Technical Acid has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.5%
Odour	No characteristic odour
Density	1.5–1.61 g/mL at 20 °C
Vapour pressure	0.0099 mPa at 20 °C
pH	1-4
Solubility in water	2.43×10^4 mg/L at pH 7, 20–25 °C
n-Octanol/water partition coefficient	Log K_{ow} = -0.82 at pH 7

The required chemistry data for ZS 2,4-D Technical Acid 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 ZS 2,4-D Technical Acid.

References

PMRA

Document

Number	Reference
3486868	2018, Manufacturing Process of 2,4-D Technical Grade Active Substance, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3486869	2016, Purity Profile of 5 Batches of 2,4-D Technical, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3486870	2016, Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans Analysis of 2,4-D Acid TGAI, DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3486871	2022, Physical and Chemical Properties of One Batch of 2,4-D TC, DACO: 2.14,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8,2.14.9,830.7000
3486872	2023, Request for waivers, DACO: 2.14.16,2.14.5
3569716	2024, Impurities of Human Health or Environmental Concern, DACO: 2.13.4 CBI

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