

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2018-6762

Application: New TGAI Product Chemistry – New Source(site) same registrant

Product: DCPA Technical Herbicide

Registration Number: 33839

Active ingredients (a.i.): Chlorthal (present as dimethyl ester)

PMRA Document Number: 3118791

Purpose of Application

The purpose of this application was to register DCPA Technical Herbicide, a new source of the technical grade active ingredient chlorthal (present as dimethyl ester).

Chemistry Assessment

Common Name: Chlorthal (present as dimethyl ester) IUPAC* Chemical Name: dimethyl tetrachloroterephthalate

CAS† Chemical Name: 1,4-dimethyl 2,3,5,6-tetrachloro-1,4-benzenedicarboxylate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

DCPA Technical Herbicide has the following properties:

Property	Result
Colour and physical state	colourless solid
Nominal concentration	90.4 %
Odour	not provided
Density	0.75 g/cm^3
Vapour pressure	0.21 mPa (at 25°C)
pН	6 - 7
Solubility in water	0.5 mg/L (20 - 25°C)
n-Octanol/water partition coefficient	$\logK_{\rm ow}=4.28$



The required chemistry data for DCPA Technical Herbicide have been provided, reviewed, and found to be acceptable.

Health and Value Assessments

Health and value assessments were not required for this application.

Environmental Assessment

From an environmental perspective, the registration of this new source of DCPA Technical Herbicide is supported.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and found it sufficient to support the registration of DCPA Technical Herbicide, a new source of the technical grade active ingredient chlorthal (present as dimethyl ester).

Additional Information Being Requested

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production, including analysis for the impurities of concern, and detailed description of the production process will be required as post-market information after registration.

References

References
2018, Technical Chlorthal Dimethyl: Materials Used for Production, DACO:
2.11.2,2.2 CBI
2018, Technical Chlorthal Dimethyl: Description of the Production Process,
DACO: 2.11.3 CBI
2018, Technical Chlorthal Dimethyl: Formation of Impurities, DACO: 2.11.4 CBI
2018, Technical Chlorthal Dimethyl: Preliminary Analysis & Qualitative and
Quantitative Profile of the Test Substance (Five Batch Analysis), DACO: 2.13.1,
2.13.2, 2.13.3, 2.13.4 CBI
2018, Special Analysis of Technical Chlorthal Dimethyl, DACO: 2.16 CBI

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