

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2016-2476
Application: Changes to Technical Grade Active Ingredient Product Chemistry
– New Source (site) same registrant and specifications
Product: Technical Dichlobenil
Registration Number: 19963
Active ingredients (a.i.): Dichlobenil
PMRA Document Number : 2820677

Purpose of Application

The purpose of this application was to add a new manufacturing site to the technical grade active ingredient, Technical Dichlobenil.

Chemistry Assessment

Common Name: Dichlobenil
IUPAC* Chemical Name: 2,6-dichlorobenzonitrile
CAS† Chemical Name: 2,6-dichlorobenzonitrile

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Technical Dichlobenil has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	99.0%
Odour	Musty odour
Density	1.55 g/mL
Vapour pressure	114 mPa (at 25°C)
pH	6.7
Solubility in water	21.2 mg/L (20°C)
n-Octanol/water partition coefficient	Log K _{ow} = 2.7 (pH 7)

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

Health Assessments

The product manufactured at the new site is toxicologically equivalent to the registered source. Subsequently, no toxicological data were submitted or are required.

Occupational and dietary exposure assessments were not required for this application.

Environmental Assessment

The TGAI has been shown to contain contaminants which have been identified in the federal government's Toxic Substances Management Policy (TSMP, 1995) as Track 1 substances. When compared to other registered sources, the use of the proposed new source is not expected to result in an increase in the release of Track-1 contaminants.

PMRA's strategy to manage Track 1 contaminants in pest control products is captured in DIR99-03.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to support the registration of a new manufacturing site for Technical Dichlobenil.

References

PMRA Document Number	References
2640059	2016, 2.1 Applicants Name and Address: Technical Dichlobenil, PCP# 19963, New Source of Active Ingredient, DACO: 2.1
2640060	2016, 2.2 Manufacturers Name and Address: Technical Dichlobenil, PCP# 19963, New Source of Active Ingredient, DACO: 2.2
2640061	2016, 2.3 Product Trade Name: Technical Dichlobenil, PCP# 19963, New Source of Active Ingredient, DACO: 2.3
2640062	2016, Certified Limits for Dichlobenil Technical, DACO: 2.12,2.12.1
2640063	2016, Confidential Attachment Certified Limits for Dichlobenil Technical, DACO: 2.12,2.12.1 CBI
2640064	2016, Product Identity and Composition, Description of Materials, Method Used to Produce the Technical Material, Description of the Production Process and Discussion of the Formation of Impurities in Dichlobenil Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.4,2.5,2.6,2.7,2.8,2.9
2640065	2016, Confidential Attachment: Product Identity and Composition, Description of

	Materials, Method Used to Produce the Technical Material, Description of the Production Process and Discussion of the Formation of Impurities in Dichlobenil Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2640066	2016, Preliminary Analysis of Dichlobenil Technical and Enforcement Analytical Method, DACO: 2.13.1,2.13.2,2.13.3
2640067	2016, Confidential Attachment Preliminary Analysis of Dichlobenil Technical and Enforcement Analytical Method, DACO: 2.13.1,2.13.2,2.13.3 CBI
2716638	2017, Response to PMRA for Manufacturing Process of Dichlobenil, Submission 2016-2476, DACO: 2.11.2,2.11.3,2.11.4 CBI
2738300	2017, Polychlorinated Biphenyls in 2,6-Dichlorobenzonitrile Product, DACO: 2.11,2.11.4 CBI
2738301	2017, Polychlorinated Biphenyls in 2,6-Dichlorobenzonitrile Product, DACO: 2.11,2.11.4 CBI
2741099	2017, Tetra through Octachlorinated Dibenzo-p-dioxins and Dibenzofurans in 2,6-Dichlorobenzonitrile Product, DACO: 2.11,2.11.1,2.11.4,2.12,2.13.3,2.13.4 CBI
2741373	2017, Tetra- through Hexa- chlorobenzenes in 2,6-Dichlorobenzonitrile Product, DACO: 2.11,2.11.1,2.11.4,2.12,2.13.3,2.13.4 CBI
2816620	2001, Determination of the Density of Purified Dichlobenil, DACO: 2.14.6
2816621	1990, Physical and Chemical Properties of Technical Dichlobenil, DACO: 2.14.6

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