

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2016-6402
Application: Changes to the Technical Grade Active Ingredient Product
 Chemistry - Specifications
Product: Chlorsulfuron Technical Herbicide
Registration Number: 19564
Active ingredients (a.i.): Chlorsulfuron
PMRA Document Number: 2779239

Purpose of Application

The purpose of this application was to amend the specifications of the technical active Chlorsulfuron Technical Herbicide.

Chemistry Assessment

Common Name: Chlorsulfuron
IUPAC* Chemical Name: 1-(2-Chlorophenylsulfonyl)-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)urea

CAS† Chemical Name: 2-Chloro-*N*-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]benzenesulfonamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Chlorsulfuron Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White crystalline solid
Nominal concentration	98%
Odour	Odourless
Density	1.48 g/cm ³
Vapour pressure	1.2 × 10 ⁻⁶ mPa (at 20 °C);
pH	3.8 (1% in water solution) at 25°C

Property	Result		
Solubility in water	<u>pH</u>	<u>Solubility (g/L) 20°C</u>	<u>Solubility (g/L) 25°C</u>
	5	0.876	0.59
	7	12.5	31.8
	9	134	-
n-Octanol/water partition coefficient	Log K _{ow} = -0.99 (pH 7)		

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

Health Assessments

Chlorsulfuron Technical Herbicide was considered toxicologically equivalent to the precedent product. Subsequently, no toxicological data were submitted or are required.

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

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and can support the amendment to the specifications of the technical active Chlorsulfuron Technical Herbicide.

References

PMRA Document Number	References
2689671	2016, DuPont-34607 Confidential Attachment - Chlorsulfuron, DACO: 2.11.4 CBI
2689672	2016, Batch Data - DuPont-32670 Confidential - native - Chlorsulfuron – [CBI Removed], DACO: 2.13.3 CBI
2689673	2016, Batch Data - DuPont-32669 Confidential - native - Chlorsulfuron – [CBI Removed], DACO: 2.13.3 CBI
2762601	2009, Technical Grade Chlorsulfuron (DPX-W4189) Manufacturing Description and Formation of Impurities, DACO: 2.11,2.11.1,2.11.2, 2.11.3,2.11.4 CBI
2762602	2009, Technical Grade Chlorsulfuron (DPX-W4189) Manufacturing Description and Formation of Impurities, DACO: 2.11,2.11.1,2.11.2, 2.11.3,2.11.4
2770239	1998, Characterization of [CBI Removed], DACO: 2.13.2 CBI
2770240	2012, Batch analysis of Chlorsulfuron (DPX-W4189) Technical, DACO: 2.13.3 CBI
2770241	2012, Batch analysis of Chlorsulfuron (DPX-W4189) Technical, DACO: 2.13.3 CBI

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