Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2020-1312
Application: Application subject to the Protection of Proprietary Interests in Pesticide Data Policy
Product: Sharda Bromoxynil Heptanoate Technical
Registration Number: 34351
Active ingredients (a.i.): Bromoxynil
PMRA Document Number: 3204685

Purpose of Application

The purpose of this application was to register a new source of the technical grade active ingredient bromoxynil based on a precedent.

Chemistry Assessment

Common Name: bromoxynil heptanoate
IUPAC* Chemical Name: 2,6-dibromo-4-cyanophenyl heptanoate
CAS† Chemical Name: 2,6-dibromo-4-cyanophenyl heptanoate

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

Sharda Bromoxynil Heptanoate Technical has the following properties:

Property	Result
Colour and physical state	light brown powder
Nominal concentration	70.5% as bromoxynil
Odour	mild aromatic
Density	1.13 g/mL
Vapour pressure	0.00014 mPa at 20°C (extrapolated)
pH	6.53 (for a 1 % aqueous suspension)
Solubility in water	0.136 mg/L at 20 °C
n-Octanol/water partition coefficient	log Kow = 5.61

The required chemistry data for Sharda Bromoxynil Heptanoate Technical 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 sufficient to register Sharda Bromoxynil Heptanoate Technical.

References

PMRA Document Number	Reference
3110258	2020, Bromoxynil Heptanoate manufacturing process and impurities formation description, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3110259	2019, Bromoxynil-Heptanoate Technical Material Analytical profile of five batches, DACO: 2.13.1,2.13.2,2.13.3 CBI
3124336	2020, Declaration letter for Bromoxynil Hepta TG 5 Batch samples from [CBI removed], DACO: 2.13.3 CBI
3110260	2020, Physicochemical Properties of Bromoxynil Hepta Technical, DACO: 2.14.1,2.14.10,2.14.12,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,830.7000 CBI
3110261	2019, Determination of Partition Coefficient (n-Octanol/Water) of Bromoxynil Hepta Technical, DACO: 2.14.11 CBI
3110262	2019, Stability to Normal, Elevated Temperatures, Metals, Metal Ions and Corrosion Characteristics of Bromoxynil Hepta Technical, DACO: 2.14.13 CBI
3110263	2020, Solubility of Bromoxynil Hepta Technical, DACO: 2.14.7,2.14.8 CBI
3110264	2019, Determination of Vapour Pressure of Bromoxynil Hepta Technical, DACO: 2.14.9 CBI