

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0004
Application: Submission Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: Sharda Bromacil Technical
Registration Number: 34433
Active ingredient (a.i.): Bromacil (present in free form, as dimethylamine salt, or as lithium salt)
PMRA Document Number: 3281759

Purpose of Application

The purpose of this application was to register Sharda Bromacil Technical, a new source of the technical grade active ingredient bromacil, based on a registered precedent.

Chemistry Assessment

Common Name: bromacil
IUPAC* Chemical Name: 5-bromo-6-methyl-3-[(1*RS*)-1-methylpropyl]pyrimidine-2,4(1*H*,3*H*)-dione
CAS† Chemical Name: 5-bromo-6-methyl-3-(1-methylpropyl)-2,4(1*H*,3*H*)-pyrimidinedione

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sharda Bromacil Technical has the following properties:

Property	Result
Colour and physical state	Light ivory solid
Nominal concentration	98.0%
Odour	Odourless
Density	1.56 g/mL at 20°C
Vapour pressure	0.0136 mPa at 20°C
pH	4.5 (1% dilution)

Property	Result
Solubility in water	pH
	5
	7
	9
n-Octanol/water partition coefficient	log K _{ow} = 2.0

The required chemistry data for Sharda Bromacil 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 support the registration of Sharda Bromacil Technical.

References

PMRA Document Number	Reference
3186473	2020, Bromacil manufacturing process and impurities formation description, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3186490	2017, Preliminary Analysis and Validation of Analytical Methods of Bromacil TGAI, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3186491	2017, Preliminary Analysis and Validation of Analytical Methods of Bromacil TGAI, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3186492	2018, 5 Batch Analysis of Impurity in Bromacil TGAI, DACO: 2.13.3 CBI
3186493	2018, Chemical and Physical Characterization of Bromacil TGAI: Color, Physical State, Odor, pH, Dissociation Constant, Density, Accelerated Storage Stability, Storage Stability, UV-Vis, Oxidation/reduction, Solubility, Melting Point, Partition Coefficient, Vapor Pressure, Corrosion Characteristics and Explodability, DACO: 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
3186494	2018, Chemical and Physical Characterization of Bromacil TGAI: Color, Physical State, Odor, pH, Dissociation Constant, Density, Accelerated Storage Stability, Storage Stability, UV-Vis, Oxidation/reduction, Solubility, Melting Point, Partition Coefficient, Vapor Pressure, Corrosion Characteristics and Explodability, DACO: 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
3271629	2021, Bromacil manufacturing process and impurities formation description – Revised, DACO: 2.11.1 CBI

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