

Evaluation Report for Category B, Subcategory B.1.2 Application

Application Number: 2015-6767
Application: New Source of a Technical Grade Active Ingredient by a New Registrant
Product: Parijat Fluroxypyr Meptyl Technical
Registration Number: 33046
Active ingredient (a.i.): Fluroxypyr-meptyl
PMRA Document Number: 2666114

Purpose of Application

The purpose of this application was to register a new source of the active ingredient fluroxypyr-meptyl by a new registrant.

Chemistry Assessment

Common Name: fluroxypyr-meptyl
IUPAC* Chemical Name: *rac*-(2*R*)-octan-2-yl [(4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy]acetate
CAS† Chemical Name: 1-methylheptyl 2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Parijat Fluroxypyr Meptyl Technical has the following properties:

| Property | Result |
|---------------------------|---|
| Colour and physical state | Off white powder |
| Nominal concentration | 68.5% (fluroxypyr, present as 1-methylheptyl ester) |
| Odour | odourless |
| Density | 1.322 g/mL at 20°C |
| Vapour pressure | 0.001349 mPa (at 20°C) |
| pH | 6.96 (1% aqueous suspension) |
| Solubility in water | 0.09 mg/L (20-25°C) |

| Property | Result |
|---------------------------------------|-------------------------------------|
| n-Octanol/water partition coefficient | Log K _{ow} = 4.98 (24.2°C) |

The required chemistry data for Parijat Fluroxypyr Meptyl 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 Parijat Fluroxypyr Meptyl Technical.

References

| PMRA Document Number | Reference |
|-----------------------------|--|
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| 2589982 | 2015, Applicant's Name and Office Address, Formulating Plant and address, Trade Name, Water Solubility, Solvent Solubility, Vapour Pressure, UV/Visible Absorption Spectra, Stability (temperature, metals), Storage Stability Data and pH for Parijat Fluroxypyr Meptyl Technical, DACO: 2.1,2.14.12,2.14.13,2.14.14,2.14.15,2.14.7,2.14.8,2.14.9,2.2,2.3 |
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| 2589984 | 2013, Determination of Melting Point of Fluroxypyr Meptyl Technical, DACO: 2.14.4 |
| 2589985 | 2013, Determination of Density of Fluroxypyr Meptyl Technical, DACO: 2.14.6 |
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| 2603904 | 2015, Corrosion Characteristics of Fluroxypyr Meptyl Technical, DACO: 2.14.13 |
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