

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2008-1692
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: Sharda Nicosulfuron Technical Herbicide
Registration Number: 33226
Active ingredients (a.i.): Nicosulfuron
PMRA Document Number: 2913033

Purpose of Application

The purpose of this application was to register Sharda Nicosulfuron Technical Herbicide as a new source of nicosulfuron.

Chemistry Assessment

Common Name: Nicosulfuron
IUPAC* Chemical Name: 2-[(4,6-dimethoxypyrimidin-2-ylcarbonyl)sulfamoyl]-N,N-dimethylnicotinamide
CAS† Chemical Name: 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-3-pyridinecarboxamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sharda Nicosulfuron Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Light yellow powder
Nominal concentration	93.08%
Odour	Sulphur smell
Density	1.431 g/mL
Vapour pressure	<8 x 10 ⁻⁷ mPa (at 25°C)
pH	3.48
Solubility in water	7.4 g/L (pH 7, 25°C)
n-Octanol/water partition coefficient	log Kow = -1.8 (pH 7)

The required chemistry data for Sharda Nicosulfuron Technical Herbicide 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 Nicosulfuron Technical Herbicide.

References

PMRA

Document

Number	Reference
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1598211	2008, Manufacturing Summary, DACO: 2.11.1 CBI
1598212	2008, UV/Visible Absorption Spectra, DACO: 2.14.12 CBI
1598214	2008, Manufacturing Process Nicosulfuron, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
1598215	2006, Establishing Certified Limits, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
1598216	2006, Preliminary Analyses of Five Representative Production Batches of Nicosulfuron Technical Grade Active Ingredient (TGAI) to Determine % Nicosulfuron and to Quantify its Associated Impurities, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
1598217	2006, Preliminary Analyses of Five Representative Production Batches of Nicosulfuron Technical Grade Active Ingredient (TGAI) to Determine % Nicosulfuron and to Quantify its Associated Impurities, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
1598218	2006, Preliminary Analyses of Five Representative Production Batches of Nicosulfuron Technical Grade Active Ingredient (TGAI) to Determine % Nicosulfuron and to Quantify its Associated Impurities, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
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1598222	2007, Determination of Physical and Chemical Properties of Nicosulfuron Technical DACO: 2.14.11
1598223	2008, Stability (Temperature, Metals) DACO: 2.14.13
1598224	2008, Determination of Physical and Chemical Properties of Nicosulfuron Technical, DACO: 2.14.4
1598225	2008, Boiling Point/Boiling Range DACO: 2.14.5
1598226	2007, Determination of Physical and Chemical Properties of Nicosulfuron Technical DACO: 2.14.7
1598227	2007, Determination of Physical and Chemical Properties of Nicosulfuron Technical DACO: 2.14.8
1598228	2007, Determination of Physical and Chemical Properties of Nicosulfuron Technical DACO: 2.14.9

1612599 2008, UV Visible Analysis of Nicosulfuron Technical DACO: 2.14.12
1614978 2008, UV Visible Analysis of Nicosulfuron Technical DACO: 2.14.12

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