

Evaluation Report for Category B, Subcategory B.1.3 Application

Application Number: 2012-4514

Application: Changes TGAI Chemistry Specifications

Product: Inaziflam Technical Herbicide

Registration Number: 30219

Active ingredients (a.i.): Indaziflam (IDF)

PMRA Document Number: 2297879

Purpose of Application

The purpose of this application was to revise the statement of product specification form (SPSF) for Inaziflam Technical Herbicide.

Chemistry Assessment

Common Name: Indaziflam

IUPACChemical Name: N-[(1R,2S)-2,3-dihydro-2,6-dimethyl-1H-inden-1-yl]-6-[(1RS)-1-dimethyl-1H-inden-1-yl]

fluoroethyl]-1,3,5-triazine-2,4-diamine

CAS Chemical Name: N-[(1R,2S)-2,3-dihydro-2,6-dimethyl-1H-inden-1-yl]-6-(1-inden-1-yl)

fluoroethyl)-1,3,5-triazine-2,4-diamine

Indaziflam Technical Herbicide has the following properties:

Property	Result		
Colour and physical state	Light beige powder		
Nominal concentration	96.9%		
Odour	odourless		
Density	1.23 g/cm ³ at 20°C		
Vapour pressure	<u>Isomer</u>	<u>20°C</u> <u>25°C</u> <u>50°</u>	<u>°C</u>
	A (CAS # 730979-19-8)	$2.5 \times 10^{-8} \ 6.8 \times 10^{-8}$ 6.9	$9x10^{-6}$
	B (CAS # 730979-32-5)	$3.7 \times 10^{-9} \ 1.1 \times 10^{-8}$ 1.6	5×10^{-6}
pН	5.1 (1% suspension)		
Solubility in water (mg/L)	<u>Isomer</u>	pH 4 pH 9 Distilled v	<u>vater</u>
	A (CAS # 730979-19-8)	4.4 2.8 2.8	
	B (CAS # 730979-32-5)	1.7 1.2 1.2	



Property	Result				
n-Octanol/water partition coefficient (log K_{ow})	<u>Isomer</u>	<u>pH 2</u>	<u>pH 4</u>	<u>pH 7</u>	<u>рН 9</u>
	A (CAS # 730979-19-8)	2.0	2.8	2.8	2.8
	B (CAS # 730979-32-5)	2.1	2.8	2.8	2.8

The chemistry requirements for Indaziflam Technical Herbicide have been completed.

Health, Environmental, and Value Assessments

Health, environmental, and value assessments were not required for this application

Conclusion

The revisions to the statement of product specification form for Inaziflam Technical Herbicide are complete.

References

PMRA Number	Reference
2241416	2012, Indaziflam (BCS-AA10717) Description of the Manufacturing Process of the Technical Grade Active Substance Manufactured by Bayer CropScience, Kansas City (USA) or by Bayer CropScience AG, Dormagen (Germany) or Frankfurt (Germany) DACO: 2.11 CBI
2241417	2012, Indaziflam (BCS-AA10717) technical material manufactured by Bayer CropScience at Kansas City (USA), Dormagen (Germany) or Frankfurt (Germany) - Discussion of the formation of impurities. DACO: 2.11
2241418	Material accountability of technical Indaziflam (BCS-AA10717). DACO: 2.13.3

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