

## **Evaluation Report for Category L, Subcategory 1.1 Application**

**Application Number:** 2022-3077

**Application:** Application subject to the Protection of Proprietary Interests in

Pesticide Data Policy

**Product:** NewAgco Sulfentrazone Technical II Herbicide

**Registration Number:** 34911

Active ingredient (a.i.): Sulfentrazone PMRA Document Number: 3456635

### **Purpose of Application**

The purpose of this application was to register a new source of sulfentrazone technical based on precedent.

#### **Chemistry Assessment**

Common Name: Sulfentrazone

IUPAC\* Chemical Name: 2',4'-dichloro-5'-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-

1*H*-1,2,4-triazol-1-yl]methanesulfonanilide

CAS† Chemical Name: N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-

oxo-1*H*-1,2,4-triazol-1-yl]phenyl]methanesulfonamide

NewAgco Sulfentrazone Technical II Herbicide has the following properties:

Property	Result	
Colour and physical state	Off-white	
Nominal concentration	95.5 %	
Odour	Mild sulphur like	
Density	1.6497 g/mL	
Vapour pressure	$2.0606 \times 10^{-3} \text{ mPa at } 20^{\circ}\text{C}$	
	$9.1601 \times 10^{-3} \text{ mPa at } 25^{\circ}\text{C}$	
рН	6.58	
Solubility in water	pH Solubility (g/L) deionized 0.5743 4 0.2502 7 0.8416 9 2.7500	



<sup>\*</sup> International Union of Pure and Applied Chemistry

<sup>†</sup> Chemical Abstracts Service

Property	Result	
n-Octanol/water partition coefficient	pH deionized 4 7 9	log(K <sub>ow</sub> ) 1.51 1.52 1.18 -0.67

The required chemistry data for NewAgco Sulfentrazone Technical II 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 acceptable to register NewAgco Sulfentrazone Technical II Herbicide.

#### References

PMRA	
Document	
Number	Reference
3369490	2021, Determination of Appearance (Color, Odor and Physical State) of
	Sulfentrazone Technical, DACO: 2.14.1,2.14.2,2.14.3
3369491	2021, Accelerated Storage Stability Test and Corrosion Characteristics of
	Sulfentrazone Technical, DACO: 2.14.13
3369492	2021, Stability to Metals and Metal Ions of Sulfentrazone Technical, DACO: 2.14.13
3369493	2021, Determination of pH of 1% (w/v) Aqueous Suspension/Solution of
	Sulfentrazone Technical, DACO: 2.14.15,830.7000
3369494	2021, Determination of Melting Range and Melting Point of Sulfentrazone
	Technical, DACO: 2.14.4
3369495	2021, Determination of Dissociation Constant(s) of Sulfentrazone Technical, DACO:
	2.14.10
3369496	2021, Determination of Density, Relative Density and Specific Gravity of
	Sulfentrazone Technical, DACO: 2.14.6
3369497	2021, Determination of Partition Coefficient (n-Octanol/Water) of Sulfentrazone
	Technical, DACO: 2.14.11
3369498	2021, Determination of Water Solubility of Sulfentrazone Technical, DACO: 2.14.7
3369499	2021, Determination of Solubility of Sulfentrazone Technical in Organic Solvents,
	DACO: 2.14.8
3369500	2021, UV-VIS Absorption Spectra of Sulfentrazone Technical, DACO: 2.14.12
3369501	2021, Determination of Vapour Pressure and Henrys Law Constant of Sulfentrazone
	Technical, DACO: 2.14.9

3369502	2022, Manufacturing Process of Sulfentrazone Technical, DACO: 2.11.1, 2.11.2,
	2.11.3, 2.11.4 CBI
3374902	2020, Five Batch Analysis of Sulfentrazone Technical, DACO: 2.13.1,2.13.2,2.13.3
3374903	2020, Five Batch Analysis of Sulfentrazone Technical - Confidential Attachment,
	DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3403777	2022, Batch Statement, DACO: 2.13.3 CBI
3403778	2022, Five Batch Analysis of Sulfentrazone Technical, DACO: 2.13.4 CBI

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