

## Evaluation Report for Category B, Subcategory 1.1 Application

**Application Number:** 2022-5637  
**Application:** Changes to Technical Grade Active Ingredient (Product Chemistry) – New Source (Site) Same Registrant  
**Product:** Pyroxsulam Technical Herbicide  
**Registration Number:** 28886  
**Active ingredient (a.i.):** pyroxsulam  
**PMRA Document Number:** 3555136

### Purpose of Application

The purpose of this application was to add a new manufacturing site to Pyroxsulam Technical Herbicide.

### Chemistry Assessment

**Common Name:** Pyroxsulam  
**IUPAC\* Chemical Name:** *N*-(5,7-dimethoxy[1,2,4]triazolo[1,5-*a*]pyrimidin-2-yl)-2-methoxy-4-(trifluoromethyl)pyridine-3-sulfonamide  
**CAS† Chemical Name:** *N*-(5,7-dimethoxy[1,2,4]triazolo[1,5-*a*]pyrimidin-2-yl)-2-methoxy-4-(trifluoromethyl)-3-pyridinesulfonamide

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Pyroxsulam Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	99%
Odour	Spicy odour
Density	1.618 g/cm <sup>3</sup> (at 20°C)
Vapour pressure	< 1 × 10 <sup>-4</sup> mPa
pH	4.06 (1% solution, 24.4 °C)

Property	Result	
Solubility in water	<u>pH</u>	<u>Solubility (g/L)</u>
	purified water	0.0626
	4	0.0164
	7	3.20
	9	13.7
n-Octanol/water partition coefficient	<u>pH</u>	<u>log K<sub>ow</sub></u>
	4	1.08
	7	-1.01
	9	-1.60

The required chemistry data for Pyroxsulam 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 acceptable to add a new manufacturing site for Pyroxsulam Technical Herbicide.

### Additional Information Being Requested

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production at the approved manufacturing site will be required as post-market information after registration.

## References

### PMRA

#### Document Number

#### Reference

1283060	2006, Group A - Product Identity and Composition, Description of Materials to Produce the Product, Description of the Production Process, Discussion of Formation of Impurities, Preliminary Analysis, Certified Limits, and Enforcement Analytical Method for XDE-742 Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.13.1 CBI
1283065	2006, Group B: Physical and Chemical Properties of XDE-742, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.8,2.14.9 CBI
3400517	2022, Corteva Canada Pyroxsulam TGAI 28886 Cat B 1.1 DACO 2.11, 2.12, 2.13 (Group A Report), DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3549021	2024, 2022-5637 Deficiency Response, DACO: 2.11.2, 2.11.4, 2.12, 2.13.1, 2.13.3, 2.13.4 CBI
3549026	2021, AM-202145 Method Validation for the Assessment of Two Impurity Components in Pyroxsulam, DACO: 2.13.1 CBI

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