

# **Evaluation Report for Category B, Subcategory 1.1, 1.3 Application**

<b>Application Number:</b>	2015-7177
Application:	New TGAI Product Chemistry – New Source (site) Same
	Registrant and Specifications
Product:	Syngenta Dicamba Technical 2 Herbicide
<b>Registration Number:</b>	32672
Active ingredients (a.i.):	Dicamba
PMRA Document Number	: 2738141

## **Purpose of Application**

The purpose of this application was to register a new source of manufacture of the active ingredient dicamba, by the same registrant.

### **Chemistry Assessment**

Common Name:	Dicamba
IUPAC* Chemical Name:	3,6-dichloro-o-anisic acid
	or
	3,6-dichloro-2-methoxybenzoic acid
CAS† Chemical Name:	3,6-dichloro-2-methoxybenzoic acid

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Property	Result
Colour and physical state	Light cream to tan solid
Nominal concentration	98%
Odour	Weak to slightly aromatic and pungent odour
Density	1.5 g/mL
Vapour pressure	1.67 mPa (at 25°C)
рН	2 - 5
Solubility in water	6.6 g/L (pH 1.8)
	>250 g/L (pH 4.1, pH 6.8, pH 8.2)



Property	Result
	Log K <sub>ow</sub> = -1.9 (pH 8.9)
	$Log K_{ow} = -1.88 (pH 6.8)$
	$Log K_{ow} = -0.55 (pH 5.0)$

The required chemistry data for Syngenta Dicamba Technical 2 Herbicide have been provided, reviewed, and found to be acceptable.

## Health Assessments

Exposure assessments were not required for this application.

Syngenta Dicamba Technical 2 Herbicide was of low toxicity to rats via the oral, dermal, and inhalation routes. It was severely irritating to the isolated chicken eye. It was non-irritating to the skin of rabbits and it was not a dermal sensitizer in mice.

### **Environmental Assessment**

The Dicamba technical from the new source contains contaminants which have been identified in the federal government's Toxic Substances Management Policy (TSMP, 1995) as Track 1 substances. When compared to other registered sources; the use of the new source is not expected to result in an increase in the release of Track-1 contaminants. PMRA's strategy to manage Track 1 contaminants in pest control products is presented in DIR99-03.

#### Value Assessment

A value assessment was not required for this application.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and is able to support the registration of Syngenta Dicamba Technical 2 Herbicide.

#### References

PMRA Document Number	References
2597322	2003, Dicamba SAN837 - Confirmation of structures of by-products, DACO: 2.12.2,2.13.4 CBI
2597324	2014, Dicamba Technical SAN837 - Analytical Method and Validation SA-86/1, DACO: 2.13.1 CBI
2597323	2015, Dicamba SAN837 - Standards/Certficate of Analysis, DACO: 2.13.3 CBI
2678131	2016, Confidential Business Information - Dicamba Technical 2 - Response to deficiency, DACO: 2.12.1 CBI
2597325	2015, Dicamba - Acute Oral Toxicity - Up-And-Down Procedure in Rats - Final Report, DACO: 4.2.1
2597326	2015, Dicamba Acute Dermal Toxicity in Rats - Final Report, DACO: 4.2.2
2597327	2015, Dicamba - Acute Inhalation Toxicity in Rats - Final Report, DACO: 4.2.3
2597328	2015, Dicamba - Primary Skin Irritation in Rabbits - Final Report, DACO: 4.2.5
2597329	2015, Dicamba In Vitro Eye Irritation Test in Isolated Chicken Eyes - Final Report, DACO: 4.2.4
2597330	2015, Dicamba - Local Lymph Node Assay (LLNA) in Mice - Final Report, DACO: 4.2.6
2597331	2015, Syngenta Dicamba Technical 2 Herbicide - Summary Toxicology Profile, DACO: 12.7, 4.1, Document M

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