

## Evaluation Report for Category B, Subcategory B.1.2 Application

**Application Number:** 2017-1735  
**Application:** New TGAI Product Chemistry - New Source (Site) New Registrant  
**Product:** Zhongshan S-metolachlor Technical 99%  
**Registration Number:** 33069  
**Active ingredients (a.i.):** S-metolachlor and R-enantiomer  
**PMRA Document Number :** 2841677

### Purpose of Application

The purpose of this application was to register a new source of S-metolachlor and R-enantiomer by a new registrant.

### Chemistry Assessment

Common Name: S-metolachlor and R-enantiomer  
 IUPAC\* Chemical Name: mixture of 80–100% 2-chloro-*N*-(6-ethyl-*o*-tolyl)-*N*-[(1*S*)-2-methoxy-1-methylethyl]acetamide and 20–0% 2-chloro-*N*-(6-ethyl-*o*-tolyl)-*N*-[(1*R*)-2-methoxy-1-methylethyl]acetamide  
 or  
 mixture of 80–100% 2-chloro-6'-ethyl-*N*-[(1*S*)-2-methoxy-1-methylethyl]acet-*o*-toluidide and 20–0% 2-chloro-6'-ethyl-*N*-[(1*R*)-2-methoxy-1-methylethyl]acet-*o*-toluidide  
 CAS† Chemical Name: 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-[(1*S*)-2-methoxy-1-methylethyl]acetamide

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Zhongshan S-Metolachlor Technical 99% has the following properties:

Property	Result
Colour and physical state	Yellow brown liquid
Nominal concentration	99 %
Odour	Unspecified organic odour
Density	1.119 g/cm <sup>3</sup>
Vapour pressure	3.7 mPa (at 25°C)
pH	5.31 (1% dispersion in water)
Solubility in water	480 mg/L (25°C)
n-Octanol/water partition coefficient	log Kow = 3.05

The required chemistry data for Zhongshan S-Metolachlor Technical 99% have been provided,

reviewed, and found to be acceptable.

### **Health Assessments**

The new product was considered to be toxicologically equivalent to a precedent product.

### **Environmental Assessment**

There are no unacceptable environmental risks expected associated with the TGAI composition.

### **Value Assessment**

No value assessment was required for this application.

### **Conclusion**

The PMRA has conducted a review of the available information in support of this application, and has determined that the registration of the new source of S-metolachlor and R-enantiomer can be granted.

### **References**

<b>PMRA #</b>	<b>Reference</b>
2748578	2017, Manufacturing process and MSDS, DACO: 2.11 CBI
2748579	2014, Five Batches Analysis, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.9 CBI
2804140	2016, updated methods of DACO 2.13.1 of sub no. 2017-1735, DACO: 2.13.1 CBI
2748580	2014, Chemical and Physical Properties, DACO: 2.14 CBI

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