

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2015-4612  
**Application:** New TGAI Product Chemistry – New Source (site) New  
**Product:** Registrant Metalaxyl Technical  
**Registration Number:** 32479  
**Active ingredients (a.i.):** Metalaxyl  
**PMRA Document Number :** 2680303

### Purpose of Application

The purpose of this application was to register a new source of the active ingredient metalaxyl, Metalaxyl Technical, by a new registrant.

### Chemistry Assessment

Common Name: Metalaxyl  
 IUPAC\* Chemical Name: Methyl *N*-(2-methoxyacetyl)-*N*-(2,6-xylyl)-DL-alaninate  
 CAS† Chemical Name: Methyl *N*-(2,6-dimethylphenyl)-*N*-(methoxyacetyl)-DL-alaninate

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Metalaxyl Technical has the following properties:

Property	Result
Colour and physical state	Colourless solid
Nominal concentration	98.6%
Odour	Odourless
Density	1.20-1.32 g/cm <sup>3</sup> at 20°C
Vapour pressure	0.75 mPa at 25°C
pH	3.85 (1% dispersion)
Solubility in water	0.84% at 22°C
n-Octanol/water partition coefficient	Log K <sub>ow</sub> : 1.96

The required chemistry data for Metalaxyl Technical have been provided, reviewed, and found to be acceptable.

## Health Assessments

Exposure assessments were not required for this application.

The impurities are not expected to affect the toxicological profile of Metalaxyl Technical based on the low levels in the analyzed product. Therefore, the new source of metalaxyl is expected to be toxicologically equivalent to the precedent product. No further toxicological information was reviewed or would be required.

## Environmental Assessment

The impurities present in Metalaxyl Technical do not constitute an environmental concern.

## 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 Metalaxyl Technical.

## References

PMRA Document Number	References
2562756	2014, Metalaxyl Technical - Product Identity and Composition, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
2562757	2013, Technical Metalaxyl: Determination of Purity and Impurity of Five Technical Batches, DACO: 2.13.1, 2.13.2, 2.13.3, 2.7, 2.8, 2.9 CBI
2562758	2012, [CBI Removed] in Technical Metalaxyl, DACO: 2.13.4 CBI
2562759	2014, Investigation of Impurity in Technical Metalaxyl Batches, DACO: 2.13.1, 2.13.2, 2.13.3 CBI
2562760	1996, Metalaxyl: Report on the Study of Appearance of the Purified Active Substance, DACO: 2.14.1, 2.14.2, 2.14.3
2562761	2014, Physical and Chemical Characteristics of Technical Metalaxyl, DACO: 2.14.10, 2.14.13, 2.14.14, 2.14.7, 2.14.9, 2.16
2562762	2010, Metalaxyl - Oxidising Properties, DACO: 2.16
2562763	2010, Flammability Determination of Metalaxyl, DACO: 2.16
2562764	2010, Metalaxyl: Determination of Boiling Temperature and Explosive Properties, DACO: 2.14.5
2562765	2010, Metalaxyl: Determination of Spectra, DACO: 2.14.12
2562766	2002, Melting Point/Melting Range and Relative Density of Test Item Metalaxyl Pure, DACO: 2.14.4, 2.14.6
2562767	2010, Partition Coefficient Determination of Metalaxyl, DACO: 2.14.11

2562768 2010, Solubility of Metalaxyl in Organic Solvents, DACO: 2.14.8  
2562769 2010, Statement Related to the Explosive Properties of Metalaxyl - Active  
Substance: Metalaxyl, DACO: 2.16  
2574926 2015, Metalaxyl Technical DACO 2 Chemistry, DACO: 2.1, 2.2, 2.3, 2.3.1, 2.4,  
2.5, 2.6, 2.7, 2.8, 2.9  
2574927 2015, Metalaxyl Technical DACO 2.13.1 Batch Data, DACO: 2.13.1  
2630563 2016, Metalaxyl Technical Product Identity and Composition, DACO: 2.11.1,  
2.11.2, 2.11.3, 2.11.4 CBI  
2653321 2016, [CBI Removed] Table Supplement to "Technical Metalaxyl: Determination  
of Purity and Impurity Profiles of Five Technical Batches", DACO: 2.13.1, 2.13.2,  
2.13.3, 2.7, 2.8, 2.9  
2643322 2016, Metalaxyl Technical: Product Identity and Composition, DACO: 2.11.1,  
2.11.2, 2.11.3, 2.11.4 CBI

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