

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2015-4632
Application: New TGAI Prod Chemistry-New Source(Site) NEW Registrant
Product: Sinon Methomyl Technical
Registration Number: NA
Active ingredients (a.i.): Methomyl
PMRA Document Number: 2629801

Purpose of Application

The purpose of this application was to register a new source of the active ingredient Methomyl, based on a precedent product.

Chemistry Assessment

Common Name: Methomyl
IUPAC* Chemical Name: methyl (1 Ξ)-N-[(methylcarbamoyl)oxy]ethanimidothioate
CAS \dagger Chemical Name: methyl *N*-[[[(methylamino)carbonyl]oxy]ethanimidothioate

* International Union of Pure and Applied Chemistry

\dagger Chemical Abstracts Service

Sinon Methomyl Technical has the following properties:

Property	Result
Colour and physical state	Off white solid
Nominal concentration	99.3%
Odour	Mild characteristic odour
Density	0.8352 g/mL
Vapour pressure	1.45×10^{-3} Pa at 21.0°C 3.68×10^{-3} Pa at 30.9 °C 1.56×10^{-2} Pa at 40.1 °C
pH	5.88
Solubility in water	52.06404 g/L at pH=4 50.80128 g/L at pH=7 52.38273 g/L at pH=9

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow}$: 0.12 at pH=4 0.15 at pH=7 0.15 at pH=9

The required chemistry data for Sinon Methomyl Technical 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 is able to support the registration of the new product, Sinon Methomyl Technical.

**References
Studies/Information Provided by Applicant/Registrant**

PMRA

Document

Number	Reference
2562971	2015, DACO 2.1-2.9, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2562972	2015, DACO 2.11.1_Manufacturing Summary, DACO: 2.11.1 CBI
2562973	2015, DACO 2.12.1_Establishing Certified Limits, DACO: 2.12.1 CBI
2562974	2015, DACO 2.14.15_pH, DACO: 2.14.15,830.7000 CBI
2562975	2015, DACO 2.14.5_Boiling Point, DACO: 2.14.5 CBI
2562976	2015, DACO 2.15_Sample(s) of Analytical Standards and ROC , DACO: 2.15 CBI
2562977	2015, Description of Production Process, DACO: 2.11.2,2.11.3,2.11.4,2.12.1,2.2,2.4,2.5,2.6,2.8 CBI
2562978	2010, Determination of Density of Methomyl Technical, DACO: 2.14.6 CBI
2562979	2011, Determination of Dissociation Constant of Methomyl Technical, DACO: 2.14.10 CBI
2562980	2015, Determination of Long-term Storage Stability Testing of Methomyl Technical, DACO: 2.14.13,2.14.14 CBI
2562981	2011, Determination of Melting Point of Methomyl Technical, DACO: 2.14.4 CBI
2562983	2011, Determination of Partition of Coefficient of Methomyl Technical, DACO: 2.14.11 CBI
2562984	2010, Determination of Physical State/Color/Odor of Methomyl Technical, DACO: 2.14.1,2.14.2,2.14.3 CBI
2562985	2010, Determination of Solubility in Six Organic Solvents of Methomyl Technical, DACO: 2.14.8 CBI
2562987	2011, Determination of Solubility in Water of Methomyl Technical, DACO: 2.14.7 CBI
2562988	2010, Determination of the Ultraviolet/Visible spectrum of Methomyl Technical, DACO: 2.14.12 CBI
2562989	2010, Determination of Vapor Pressure of Methomyl Technical, DACO: 2.14.9 CBI
2562991	2013, Five Batches Analysis of Technical Grade Active Ingredient Methomyl, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.14.12,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2619452	2016, SODIUM CYANATE, 90%, DACO: 2.11.2 CBI
2619453	2016, 1,2,4-Trichlorobenzene, DACO: 2.11.2 CBI
2619454	2016, Dimethyl Sulfate, DACO: 2.11.2 CBI
2619455	2009, 1-(Methylthio)acetaldehyde oxime, DACO: 2.11.2 CBI
2619456	2016, SHENGFA CO., LTD., DACO: 2.11.2 CBI
2619457	2016, DACO 2.13.3, DACO: 2.13.3 CBI

ISSN: 1911-8082

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