

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2009-5465

Application: New Source of Technical Grade Active Ingredient by a New

Registrant

Product: Taminco Metam K Technical

Registration Number: 30180

Active ingredients (a.i.): potassium *N*-methyldithiocarbamate

PMRA Document Number English PDF: 2074185

Background

The source of potassium *N*-methyldithiocarbamate used to determine chemical equivalence was Registration Number 18592.

Purpose of Application

The purpose of this application was to register a new source of the active ingredient, potassium *N*-methyldithiocarbamate, by a different Registrant.

Chemistry Assessment

Common Name: potassium *N*-methyldithiocarbamate or metam potassium

Chemical Name: potassium N-methyldithiocarbamate

Taminco Metam K Technical has the following properties:

Property	Result
Colour and physical state	Light yellow liquid
Nominal concentration	potassium <i>N</i> -methyldithiocarbamate at 54.1%
Odour	Strong, rotten egg odour
Density	1.28 g/mL at 20°C
Vapour pressure	$5.75 \times 10^{-2} \mathrm{Pa} \;(\mathrm{at}\; 20^{\circ}\mathrm{C})$
pН	7.5-10.5
Solubility in water	Not applicable since the product is an aqueous solution and is highly water soluble
n-Octanol/water partition coefficient	pH log K _{ow} 5 -3.42 7 -3.44 9 -3.55



The chemistry requirements for Taminco Metam K Technical have been completed.

Health and Environmental Assessment

As the new source of potassium *N*-methyldithiocarbamate is chemically equivalent to the registered source, the health and environmental risk profiles are expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

Value Assessment

A value assessment is not required for technical grade active ingredient products.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that it can support the registration of Taminco Metam K Technical.

References

PMRA Document Number	Reference
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1843538	2006, Determination of Colour, Physical State, Odor, Density and pH for Metam-Potassium 54%,, DACO: 2.14.1,2.14.2,2.14.3,2.14.6
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1843540	2009, Determination of Physical Properties for Purified (Solid) Metam-K,, DACO: 2.14.12
1843541	2005, Accelerated Storage Stability of Metam potassium 690 g/L, DACO: 2.14.13
1843542	2004, Determination of the Storage Stability of Metam Potassium (Shelf Life), DACO: 2.14.14
1843543	G. White, 2000, Determination of Autoflammability, Flash Point, Explosive Properties, and Surface Tension of Metam-K 690 g/l (Technical) product, DACO: 2.14.5
1843547	2009, Chemistry-2 14 1-2 14 14-metam K-chemical and physical properties, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.2,2.14.3,2.14.4,2.14. 5,2.14.6,2.14.7,2.14.8,2.14.9
1843548	N. Taylor, 2007, Metam-Sodium Determination of Vapour Pressure by Balance Method, DACO: 2.14.9

1843549	2003, Metam KLR 54% Product Identity, Composition and analysis, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.4,2.5,2.6,2.7, 2.8,2.9 CBI
1911442	2010, PMRA-response to clarification-01june2010, DACO: 0.8
1924187	2010, PMRA-response to clarification-25june2010, DACO: 0.8
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1919192	DACO: Clarification_Email

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