

Evaluation Report for Category B, Subcategory B.1.2 Application

Application Number: 2013-2700
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: Sulphur Mills Technical Sulphur
Registration Number: 31868
Active ingredients (a.i.): sulphur
PMRA Document Number : 2535007

Background

The source of sulphur used to determine chemical equivalence was Registration Number 18569.

Purpose of Application

The purpose of this application was to register a new source of the active ingredient, sulphur, by a different Registrant.

Chemistry Assessment

Common Name: Sulfur
 This substance is considered by the International Organization for Standardization not to require a common name.
IUPAC Chemical Name: Sulfur
CAS Chemical Name: Sulfur

Sulphur Mill Technical Sulphur has the following properties:

Property	Result
Colour and physical state	Light yellow granular solid
Nominal guarantee	Sulphur at 99.8% Available chlorine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins at 28.6% (limits 27.7-29.5%)
Odour	Odourless
Specific gravity	0.90 g/mL at 24°C
Vapour pressure	0.21 mPa at 25°C (extrapolated)
pH	6.5-7
Solubility in water	0.063 g/m ³ (pH 7, 20°C)
n-Octanol/water partition coefficient	Log K _{ow} 5.68 (pH 7)

The chemistry requirements for Sulphur Mill Technical Sulphur have been fulfilled.

Health and Environmental Assessments

As the new source of sulphur is acceptable, the health and environmental risk profiles are expected to be similar to that of the product used to determine 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 Sulphur Mills Technical Sulphur.

References

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2305339	2005, Technical Sulphur and Sulphur Dust- Validation of the Analytical Method for the Determination of the Active Ingredient Content, DACO: 2.13.1 CBI
2305341	2005, Technical Sulphur and Sulphur Dust- Validation of the Analytical Method for the Determination of the Heavy Metal Content, DACO: 2.13.1 CBI
2305343	2005, Technical Sulphur - Analysis of 5-Batch Samples, DACO: 2.13.1, 2.13.2, 2.13.3 CBI
2305345	2005, Technical Sulphur- Determination of the Colour, Odour and Physical State, DACO: 2.14.1 ,2.14.2, 2.14.3
2305347	2005, Technical Sulphur- Determination of the Melting Point, DACO: 2.14.4
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2305350	2005, Technical Sulphur- Determination of the Water Solubility, DACO: 2.14.7
2305351	2005, Technical Sulphur- Determination of the Solubility in Organic Solvents, DACO: 2.14.8
2305352	2005, Technical Sulphur- Determination of the Vapour Pressure, DACO: 2.14.9
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2429049	2012, Analysis of 5 Representative Production Batches of Sulphur Technical Grade Active Ingredient to Determine the % Sulphur and to Quantify its Associated Impurities, DACO: 2.13.4 CBI
2429050	2012, Analysis of 5 Representative Production Batches of Sulphur Technical Grade Active Ingredient to Determine the % Sulphur and to Quantify its Associated Impurities, DACO: 2.13.4 CBI
2429051	2012, Analysis of 5 Representative Production Batches of Sulphur Technical Grade Active Ingredient to Determine the % Sulphur and to Quantify its Associated Impurities, DACO: 2.13.4 CBI
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2429053	2011, pH of Sulphur Technical, DACO: 2.14.15,830.7000

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