

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2009-1260
Application: Changes to the technical grade active ingredient: changes in product chemistry specifications
Product: Maquat 4480-E
Registration Number: 24805
Active ingredients (a.i.): Didecyl dimethyl ammonium chloride
PMRA Document Number : 1947791

Purpose of Application

The purpose of this application was to update the guarantee of the technical grade active ingredient Maquat 4480-E from minimum to nominal as required by re-evaluation.

Chemistry Assessment

Common Name: Didecyl dimethyl ammonium chloride
Chemical Name: *N*-Decyl-*N,N*-dimethyl-1-decanaminium chloride

Maquat 4480-E has the following properties:

Property	Result
Colour and physical state	Straw coloured liquid
Nominal concentration	80.9%
Odour	Typical
Specific gravity	0.98
Vapour pressure	N/A
pH	6-8 (10% solution)
Solubility in water	Soluble in water
n-Octanol/water partition coefficient	N/A

The chemistry requirements for Maquat 4480-E have been completed.

Health Assessments

The change in the active ingredient guarantee from minimal to nominal does not impact the toxicological profile of Maquat 4480-E therefore; a toxicological assessment was not required.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The PMRA has completed the assessment of all available information for this application and has concluded that the change in guarantee from minimum to nominal of the product Maquat 4480-E is acceptable.

References

- 1742048 2004, Batch data for DDAC, DACO: 2.13.3 CBI
1900363 2009, Farmin M2 - 1095 MSDS, DACO: 2.11.2
1900365 2009, Methyl Chloride MSDS, DACO: 2.11.2
1900369 2010, Detailed Production Description, DACO: 2.11.3 CBI
1900370 2010, Clarification Response, DACO: 2.13.3 CBI
1913162 2010, Maquat 4480-E: Preliminary Analysis, DACO: 2.11.3 CBI
1583268 Technical Chemistry file QAK-MSN-3. Chemistry, Manufacturing Procedures, Specifications, Determination of alkyl chain length distribution of distilled alkyldimethylamines (ADMA) amine by gas chromatography, DACO: 2.1, 2.11.1, 2.12, 2.13, 2.14.1, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.9, 2.16, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9
1583275 Technical Chemistry file QAK-MSN-3 Maquat 4480-E. Response to questions, Analytical results, Gas Chromatography, Specifications, Storage Stability, Determination of didecyldimethylammonium chloride and impurities., DACO: 2.99
1583276 Technical Chemistry file QAK-MSN-3 Maquat 4480-E. Response - Analytical Results

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