

Evaluation Report for Category B, Subcategory B.1.1, B.1.3 Application

Application Number: 2005-3537
Application: B.1.1, B.1.3 (new manufacturing site by same registrant, change in specifications)
Product: Maquat LC 12S-80%
Registration Number: 22190
Active ingredients (a.i.): Alkyl (61% C₁₂, 23% C₁₄, 11% C₁₆, 5% C₁₈) dimethyl benzyl ammonium chloride
PMRA Document Number : 1499266

Background

The original source of Maquat LC 12S-80% (PCP# 22190) was first registered in 1992.

Purpose of Application

The purpose of this submission is to replace the manufacturing site with a new site (same registrant) and to change the manufacturing specifications.

Chemistry Assessment

Common Name: N/A
IUPAC Chemical Name: Alkyl (61% C₁₂, 23% C₁₄, 11% C₁₆, 5% C₁₈) dimethyl benzyl ammonium chloride.

Maquat LC 12S-80% has the following properties:

Property	Result
Colour and physical state	white to light straw in colour liquid
Nominal concentration	93.3% as determined by HPLC
Odour	mild benzaldehyde type odour
Density	0.96 g/mL
Vapour pressure	40 mmHg
pH	7-8 (10% solution)
Solubility in water	soluble in water
n-Octanol/water partition coefficient	soluble in water

The chemistry requirements for Maquat LC 12S-80% are complete.

Health Assessments

There is no expected change to the toxicological profile of the active ingredient since the chemistry review indicated the active ingredient at the new manufacturing site to be chemically equivalent to the registered source.

Environmental Assessment

An environmental assessment was not required.

Value Assessment

An assessment of value was not required.

Conclusion

The Agency has completed an assessment of available information for the new source of Maquat LC 12S-80% and has found it sufficient to allow for full registration.

References

7.1.1 Studies/Information Provided by Applicant/Registrant

1092123	Discussion of Formation of Impurities, DACO: 2.11.4
1092126	Maquat LC12S-80% Preliminary Analysis. pages 9-13 of 13., 410-94, DACO: 2.13.2,2.13.3
1318840	Material Safety Data Sheet, DACO: 2.11.2
1318841	DACO: 2.11.2
1318843	2006, DACO: 2.11.4
1318845	2004, UV Visible Absorption, 410-184, DACO: 2.14.12
1406294	Material Safety Data Sheet - Specification, DACO: 2.11.2
1406295	C18 MSDS, DACO: 2.11.2
1406296	2006, Correct Manufacturing Summary, DACO: 2.11.3
1406299	410-184, DACO: 2.13.1
1410336	Manufacturing Procedure [for registered site], DACO: 2.11.3
1410337	Maquat LC12S - 80%: Physical and Chemical Properties, DACO: 2.12.2,2.14
1411568	Material Safety Data Sheet - Specification, DACO: 2.11.2

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