

## Evaluation Report for Category B, Subcategory 2.3 Application

**Application Number:** 2009-2785  
**Application:** B.2.3 - New EP Product Chemistry-Identity of Formulants  
**Product:** Maquat 4450 CTE  
**Registration Number:** 29914  
**Active ingredients (a.i.):** Didecyl Dimethyl Ammonium Chloride  
**PMRA Document Number :** 1828408

### Purpose of Application

The purpose of this application was to register a new end-use product, Maquat 4450-CTE, which involves minor formulation changes to the currently registered Maquat 4450-CT (Registration Number 29199).

### Chemistry Assessment

Maquat 4450-CTE is a solution containing the active ingredient didecyl dimethyl ammonium chloride at a minimum concentration of 50%. This product has a relative density of 0.849 and pH of 5.66. The chemistry requirements for Maquat 4450-CTE have been completed.

### Health Assessments

The formulation of Maquat 4450-CTE does not reveal a toxicological profile outside of what is currently registered in Canada.

A health assessment has been conducted for the amendment of the Maquat 4450-CTE formulation, containing 50% didecyl dimethyl ammonium chloride. It is not expected that exposure to mixer/loader/applicator and post-application workers will increase over the exposure from currently registered uses.

### Environmental Assessment

An environmental assessment was not conducted because no additional environmental data were required to support the registration of Maquat 4450-CTE. As ethyl alcohol is a List 4B formulant, the PMRA does not consider the proposed formulation change of water to ethyl alcohol to pose an increased risk to the environment.

## Value Assessment

A new value assessment was not required as didecyldimethyl ammonium chloride is currently registered for use in cooling towers and oil field water flood systems, at the same label rates as Maquat 4450 CTE. The differences in formulation of Maquat 4450 CTE compared to the registered product Maquat 4450 CT, are not expected to have an impact on the efficacy of the product.

## Conclusion

The PMRA has completed an assessment of all available information and was able to support to registration of Maquat 4450-CTE.

## References

- 1785425 2009, Product and applicant identification, DACO: 3.1.1,3.1.2
- 1785426 2009, DACO 3.2.1,3.3.2,3.4.1, DACO: 3.2.1,3.3.1,3.3.2,3.4.1 CBI
- 1785428 2007, Physical and Chemical characteristics of Maquat 4450-CT, DACO: 3.5.11,3.5.6,3.5.7,3.5.8,3.5.9 CBI
- 1785430 2008, Physical and Chemical characteristics of Maquat 4450-CT, DACO: 3.5.10,3.5.14 CBI
- 1785431 2009, DACO 3.5.12, 3.5.13, 3.5.15, DACO: 3.5.12,3.5.13,3.5.15 CBI
- 1847312 2009, Physical and Chemical Characteristics of Maquat 4450-CTE: Physical State, Flammability, pH, Viscosity and Relative Density, DACO: 3.5.11,3.5.2,3.5.6,3.5.7,3.5.9
- 1847313 2009, 3 Month Storage Stability and Corrosion Characteristics, OPPTS Test Guidelines, Series 830, Product Properties: 830.6317 and 830.6320, DACO: 3.5.11,3.5.14
- 1847311 2010, Clarification Response, DACO: 0.8.1

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