

## Evaluation Report for Category B, Subcategory 2.1 Application

**Application Number:** 2018-2470  
**Application:** New manufacturing product; changes to chemistry guarantee  
**Product:** Maquat 2420-80CN  
**Registration Number:** 33483  
**Active ingredients (a.i.):** n-alkyl (40% C12, 50% C14, 10% C16) dimethylbenzylammonium chloride and didecyldimethylammonium chloride  
**PMRA Document Number:** 3010428

### Purpose of Application

The purpose of this application was to register the manufacturing formulation containing registered sources of n-alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride and didecyl dimethyl ammonium chloride.

### Chemistry Assessment

Maquat 2420-80CN is formulated as a solution containing n-alkyl (40% C12, 50% C14, 10% C16) dimethylbenzylammonium chloride at 32.0% and didecyldimethylammonium chloride at 48.0%. This end-use product has a relative density of 0.9189 and pH of 6.9. The required chemistry data for Maquat 2420-80CN have been provided, reviewed and found to be acceptable.

### Health Assessments

Maquat 2420-80CN is highly acutely toxic via the oral route of exposure and is of low acute toxicity via the dermal route. It was corrosive to the eyes and skin of rabbits and did not produce a sensitization reaction when tested in guinea pigs via the Buehler method. A waiver request was granted for the acute inhalation toxicity study based on the high acute oral toxicity and the fact that the product is corrosive to both the eyes and the skin. As a result, Maquat 2420-80CN is considered to be of high acute toxicity via the inhalation route.

Occupational and residue assessments were not required for this application.

### Environmental and Value assessments

Environmental and value assessments were not required for this application.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to register Maquat 2420-80CN.

## References

### PMRA

#### Document

Number	Reference
2892306	2018, Product Identification, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4 CBI
2892307	2016, Product Chemistry of Maquat 2420-80% - Group A, DACO: 3.2.1, 3.2.2, 3.2.3, 3.3.1 CBI
2892308	2015, Titrimetric Determination of Quaternary Ammonium Salts in Maquat 2420-80%, DACO: 3.4.1 CBI
2892309	2016, Product Properties of Maquat 2420-80% - Group B, DACO: 3.5.1, 3.5.11, 3.5.12, 3.5.13, 3.5.2, 3.5.3, 3.5.4, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
2892310	2016, Storage Stability and Corrosion Characteristics for Maquat 2420-80%, DACO: 3.5.10, 3.5.14 CBI
2892311	2015, Maquat 2420-80% Physical and Chemical characteristics - Viscosity at 45oC, DACO: 3.5.9 CBI
2892312	2002, Acute Oral Toxicity Study of Maquat 2420-80%, Lot#21001J, EPA Reg. #10324-127 OPPTS 870.1100, DACO: 4.6.1
2892313	2002, Acute Dermal Toxicity Study of Maquat 2420-80%, Lot#21001J, EPA Reg. #10324-127 OPPTS 870.1200, DACO: 4.6.2
2892314	2002, Acute Eye Irritation Study of Maquat 2420-80%, Lot#21001J, EPA Reg. #10324-127 OPPTS 870.2400, DACO: 4.6.4
2892315	2002, Acute Skin Irritation Study of Maquat 2420-80%, Lot#21001J, EPA Reg. #10324-127 OPPTS 870.2500, DACO: 4.6.5
2892316	2004, Skin Sensitization Study of Maquat 2420-80%, Lot#21001J, EPA Reg. #10324-127 OPPTS 870.2600, DACO: 4.6.6
2892317	2018, Acute Toxicology Summaries, DACO: 4.1,4.6.3

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