

## Evaluation Report for Category B, Subcategory 3.12 Application

**Application Number:** 2011-1931  
**Application:** B.3.12 (New site or host)  
**Product:** GLB Green Free Algaecide  
**Registration Number:** 30776  
**Active ingredients (a.i.):** Sodium Bromide (SBR)  
**PMRA Document Number:** 2164863

### Purpose of Application

The purpose of this application was to register a new end-use product, GLB Green Free Algaecide, for use to control green algae blooms in swimming pools.

### Health Assessments

Available information suggests that GLB Green Free Algaecide will be of low acute oral toxicity, but poisoning of a child by ingestion is possible based on the net contents of 454 g to 10 kg. Publicly available information and use of currently registered products containing sodium bromide for spas is such that GLB Green Free Algaecide is expected to have low acute dermal and inhalation toxicity.

Based on available information, both eye and skin irritation are possible from exposure to GLB Green Free Algaecide, but the degree of irritation could not be determined from the available information.

Based on the current use of sodium bromide as an algaecide in spas, GLB Green Free Algaecide is not expected to be a dermal sensitizer.

The label statements for GLB Green Free Algaecide are considered adequate to address any potential risk due to exposure of the applicator and/or bystander when treating a swimming pool. The concentration of bromine in a swimming pool treated with GLB Green Free Algaecide (2.28 ppm) is below what is considered acceptable when treating spas with a similar product (3 – 5 ppm). Individuals engaged in post application aquatic activities will not result in an unacceptable risk due to exposure.

## **Value Assessment**

Three rationales and three publications were provided to support the use of GLB Green Free Algaecide as an algaecide. The scientific papers have shown several case-studies where bromine was effective as an algaecide, and have also shown that the use of bromine at this dose and frequency is not expected to convert the pool chemistry to bromine-only. The combination of a high chlorine dose with sodium bromide will control the growth of visible algae. Therefore, the data provided demonstrated that the product is effective for this new use.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the registration of the new domestic swimming pool algaecide product GLB Green Free Algaecide, based on a sodium bromide/oxidant system.

## References

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- 2138406 1990, BROMIDE SPA STUDIES, DACO: 10.2.3.2
- 2138407 1966, Algicidal Effects of Bromine and Chlorine on Chlorella pyrenoidosa, DACO: 10.2.3.2
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