

Evaluation Report for Category B, Subcategory 2.6 Application

Application Number: 2011-0559

Application: B.2.6 – New Combination of TGAIs **Product:** HTH Start-Up Chlorinator & Algaecide

Registration Number: 30474

Active ingredients (a.i.): Copper sulphate pentahydrate

Sodium dichloro-s-triazinetrione dihydrate

PMRA Document Number: 2271866

Purpose of Application

The purpose of this application was to register HTH Start-Up Chlorinator & Algaecide, which is a new combination of active ingredients, sodium dichloro-s-triazinetrione dihydrate and copper sulfate pentahydrate, which functions as a start-up and maintenance chlorine sanitizer and copper algaecide supplement to be applied as needed.

Chemistry Assessment

HTH Start-Up Chlorinator & Algaecide is formulated as soluble granules containing sodium dichloro-s-triazinetrione dihydrate at 20.3% and copper sulphate pentahydrate at 2.27%. This end-use product has a density range of 1.1-1.2 g/cm3 and pH range of 6.5-7.5. The chemistry requirements for HTH Start-Up Chlorinator & Algaecide are complete.

Health Assessments

Six acute toxicity studies (oral, dermal, inhalation, eye irritation, dermal irritation, and sensitization) were conducted with Algae Out, a substance composed with equivalent concentrations of active ingredients as HTH Start-Up Chlorinator and Algaecide. Algae Out is of moderate toxicity via the oral route, of low toxicity via the dermal route and of slight toxicity via the inhalation route. It is corrosive to the eyes and moderately irritating to the skin but is not a dermal sensitizer.

A qualitative health assessment has been conducted for HTH Start-Up Chlorinator and Algaecide for use as shock treatment tablets in swimming pools. HTH Start-Up Chlorinator and Algaecide is within the current use patterns for the active ingredients. Therefore, exposure is not expected to increase over the exposure from the currently registered products containing sodium dichlorostriazinetrione dihydrate and copper sulphate pentahydrate for use as a pool sanitizer.



Environmental Assessment

Environmental assessment was not required for this application.

Value Assessment

HTH Start-Up Chlorinator & Algaecide is used as a start-up and maintenance chlorine sanitizer and copper algaecide supplement to be applied as needed, in conjunction with HTH Dual Action 3" Chlorinating Pucks, which functions as a routine chlorine sanitizer and an algaecide maintenance product in domestic swimming pools. One efficacy trial was submitted in support of these products which demonstrated adequate sanitization of swimming pool water when the free available chlorine is maintained between 1 and 3 ppm and the copper level of 0.25 ppm is maintained. Therefore, the use of HTH Start-Up Chlorinator & Algaecide as a swimming pool sanitizer/algaecide is acceptable for registration.

Conclusion

The PMRA conducted an evaluation of the subject application and determined that HTH Start-Up Chlorinator & Algaecide is acceptable for registration.

References

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ISSN: 1911-8082

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