We construct a regular extension of the GMGHS extremal black hole in a model with $O(\alpha')$ corrections in the action. The de-singularization is supported by the $O(\alpha')$-terms.

The regularized extremal GMGHS BHs are asymptotically flat, possess a regular (non-zero size) horizon of spherical topology, with an $\text{AdS}_2 \times S^2$ near horizon geometry.

The near horizon solution is obtained analytically and some illustrative bulk solutions are constructed numerically.