



## The effect of mixed salts and organic additives on the performance of primary battery electrolyte

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### Abstract

Primary batteries can produce current immediately on assembly. Disposable primary cells cannot be reliably recharged, since the chemical reactions are not easily reversible and active materials may not return to their original forms. A reserve battery can be stored for a long period of time and is activated when its internal parts are assembled. A process for prolonging the life of a PbO<sub>2</sub>-zinc battery by adding an organic and ionic salt to its electrolyte and then discharging the battery at a high current rate and the battery so produced. In one embodiment of the this study, the claim relates to an electrochemical PbO<sub>2</sub>-zinc battery having of a hexanol, dextrin and arabic gum, preferably an additional additive or agent for anti foaming and said additional additive selected from the group consisting of zinc, aluminum sulfate.

**Keywords:** Electrolyte, Additives; Battery,

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