

HYDROGEN PEROXIDE COMPLEXES OF INORGANIC SALTS AND SYNTHESIS THEREOF

Abstract of the Disclosure

5 A method of making an inorganic salt-hydrogen peroxide complex includes the following steps: (a) mixing the inorganic salt with sufficient water for a time sufficient to form a soft paste, (b) mixing the paste with an aqueous hydrogen peroxide solution to form a hydrogen peroxide-containing paste, and (c) drying the hydrogen peroxide-containing paste. A hydrate
10 method of making $\text{Na}_4\text{P}_2\text{O}_7 \cdot 3\text{H}_2\text{O}_2$ includes the steps of: mixing sodium pyrophosphate decahydrate solid with an aqueous solution of hydrogen peroxide having a concentration of less than 30%, and drying the mixture. Compositions of matter include $\text{K}_2\text{HPO}_4 \cdot 3\text{H}_2\text{O}_2$, $\text{KH}_2\text{PO}_4 \cdot \text{H}_2\text{O}_2$, $\text{Ca}_2\text{P}_2\text{O}_7 \cdot n\text{H}_2\text{O}_2$, $\text{Ca}_2\text{P}_2\text{O}_4 \cdot n\text{H}_2\text{O}_2$, $\text{Na}_2\text{SO}_4 \cdot n\text{H}_2\text{O}_2$, $\text{K}_2\text{SO}_4 \cdot n\text{H}_2\text{O}_2$,
15 $\text{Na}_2\text{SiO}_3 \cdot n\text{H}_2\text{O}_2$ and $\text{Na}_2\text{SiO}_7 \cdot n\text{H}_2\text{O}_2$.

Figure 1



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