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### **Production of Bisphenol A (BPA) by green technology**

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**T**he literatures and researches show that the reaction between phenol and acetone is too slow in the absence of catalyst, but it proceeds with formation of Bisphenol A (BPA) in the presence of acidic catalyst or any strong acid. Although the BPA formation depends on the molar ratio of reactants (acetone and phenol), using a different solvents or catalysts will not deny the effect of the BPA on human health. It is only enhancing the reaction ratio between phenol and acetone and improves the selectivity. There are

different catalysts and solvents have been tested and their effects on the process and BPA yields were evaluated. However, as the reaction proceeded to increase the water concentration, the inhibition effect of water reduces the reaction rate and gives low yield. This will not eliminate the impacts of BPA directly or indirectly on human health, it is only increased the quality of the product.

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