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The mystery ...

... of why water and salt contaminants destroy organometallic reagents has been solved by G. N. Khairallah, G. da Silva, and R. A. J. O'Hair in their Communication on page 10979 ff. The addition of an individual salt molecule to an organometallic reagent dramatically enhances its reactivity towards water. This second metal center plays an active role in altering the fundamental chemical transformations that take place when water attacks the organometallic compound.

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