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“Use of thiosulfates to reduce volatilization losses from urea fertilizers”

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ABSTRACT

Nitrogen losses from the surface application of urea or urea containing fertilizers can result in a significant reduction in nitrogen use efficiency. Four liquid thiosulfate products; ammonium (THIO-SUL[®]), potassium (KTS[®]), calcium (CaTs[®]) and magnesium (MagThio[™]) were evaluated for reducing ammonia volatilization nitrogen losses in combination with a urea solution. The addition of calcium thiosulfate (CaTs) at 5 to 10 % (v/v) was found to be the most effective product and reduced losses by an average of 28.5 %.