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Juan Carlos Galvez-Ruiz, Gerhard Holl, Konstantin Karaghiosoff, Thomas M. Klapotke,* Karolin Loehnwitz, Peter Mayer, Heinrich Noeth, Kurt Polborn, Christoph J. Rohbogner, Max Suter, and Jan J. Weigand: Derivatives of 1,5-Diamino-1H-tetrazole: A New Family of Energetic Heterocyclic-Based Salts Inorganic Chemistry 2005, 44 (12), 4237-4253.

Additional Safety Note

In the Experimental Section of the above paper, we stated that "aminotetrazoles and their derivatives are energetic materials...Appropriate safety precautions should be taken, especially when these compounds are prepared on a larger scale...and safety equipment such as Kevlar gloves, leather coats, face shields, and ear plugs are necessary". In the Results and Discussion Section under Synthesis, we clearly pointed out that compound 2 (diaminotetrazole) was prepared in 58% yield and that the reaction diaminoguanidinium salts nitrous acid very much depends on the reaction conditions and may also lead to the formation of highly explosive alkali metal salts of tetrazolyl azide. In the meantime, another research group has repeated the preparation of compound 2 and observed an unexpected deflagration in the $20 \times (!)$ scaleup of the 1,5-diamino-1H-tetrazole (2) synthesis procedure. After the ethanol extraction was complete, a deflagration occurred during removal of the product from a round-bottom flask for determining the reaction yield. The event resulted in the injury of two people, and an investigation is in progress to evaluate what may have happened.

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