Lab 4 Report - Limiting Reactant and % Yield *Caroline Verhappen*

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**Procedure**

*First a 50 mL beaker was weighed and the mass was recorded. One gram of nickle (II) chloride was added to the weighed beaker and the mass was recorded. The nickle (II) chloride solid was then dissolved in 5 mL of deionized water. While using a graduated cylinder 4.5 mL of the 25% ethylenediamine solution was measured and then poured into the aqueous nickle (II) chloride solution and stirred. Trisethylenediamine nickel (II) chloride and water were produced. 25 mL of acetone was added and stirred while participation began. An ice bath was made in a 250 mL beaker while the 50 mL beaker was added for 10 minutes. A piece of filter paper was weighed and then folded to form a cone and placed in a funnel then the funnel placed into a 250 mL erlenmeyer flask, the beaker containing the product was swirled and then poured in the filter paper then acetone was used to transfer the entire product from the beaker to the filter paper. The filter paper was transferred to the beaker and was labeled with a sharpie and set aside for a week. A week later the filter paper and beaker were weighed and recorded.*

**Conclusions**

*The percent yield of the reactant of the trisethylenediamine nickle (II) chloride was one hundred and five percent. The experiment produced a larger number than expected.*