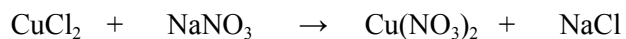


Name: _____

HW 3: Limiting Reagent 1

When copper (II) chloride reacts with sodium nitrate, copper (II) nitrate and sodium chloride are formed.

1. Write the balanced equation for the reaction given above:



2. If 15.0 grams of CuCl_2 react with 20.0 grams of NaNO_3 , how many grams of NaCl can be formed?
3. What is the limiting reagent for the reaction in #2?
4. How many grams of $\text{Cu(NO}_3)_2$ can be formed?
5. How much of the excess reagent is left over in this reaction?
6. If 11.3 grams of NaCl are formed in the reaction described in problem #2, what is the percent yield of this reaction?