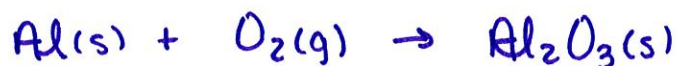


Write chemical equations for the following reactions. Include states of matter. Balance the equations.

1. Aqueous solutions of copper (I) nitrate and potassium sulfide are mixed to form a precipitate of copper(I) sulfide and aqueous potassium nitrate.



2. Solid aluminum metal burns in oxygen gas react to produce solid aluminum oxide.



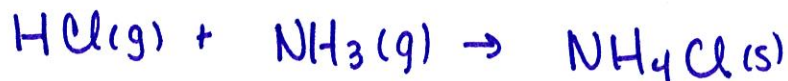
3. Solid iron metal and sulfuric acid react to produce aqueous iron(III) sulfate and hydrogen gas.



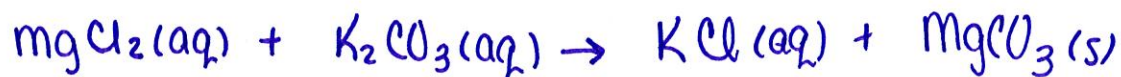
4. Carbonic acid is an unstable acid that breaks down to produce water and carbon dioxide gas.



5. Hydrogen chloride gas reacts with ammonia gas to produce solid ammonium chloride.



6. Aqueous solutions of magnesium chloride and potassium carbonate react to form aqueous potassium chloride and a precipitate of magnesium carbonate.



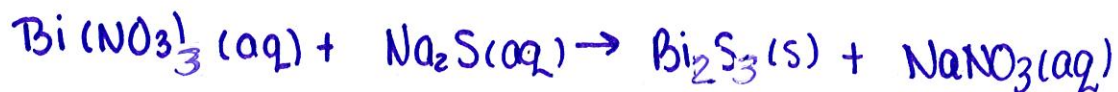
7. Aqueous chlorous acid breaks down to produce water and dichlorine trioxide gas.



8. Hydrobromic acid solution can be neutralized by adding aqueous lithium hydroxide to produce aqueous lithium bromide and water.



9. Aqueous solutions of bismuth(III) nitrate and sodium sulfide yield a precipitate of bismuth(III) sulfide and aqueous sodium nitrate.



10. Liquid pentane is burned in the presence of oxygen gas to produce carbon dioxide gas and water vapor.

