Answer on Question #64551 – Chemistry – General Chemistry

Write a complete, balanced equation for this double displacement reaction between sodium hydroxide and nickel(II) chloride. (Hint: the solid is a compound of Ni²⁺ ions and hydroxide ions.) Write the complete molecular equation rather than the net ionic equation.

Solution.

Complete molecular equation: $2NaOH + NiCl_2 \rightarrow Ni(OH)_2 \downarrow + 2NaCl$ lonic equation: $2Na^+ + 2OH^- + Ni^{2+} + 2Cl^- \rightarrow Ni(OH)_2 \downarrow + 2Na^+ + 2Cl^-$ Short ionic equation: $Ni^{2+} + 2OH^- \rightarrow Ni(OH)_2 \downarrow$

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