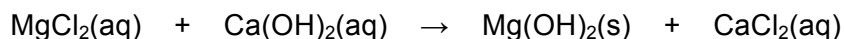


1 Calcium hydroxide solution can be added to magnesium chloride solution. The formula equation for the reaction is shown below:



This is an example of a precipitation reaction.

What is the meaning of the term precipitation reaction?

.....  
.....

(2 marks)

1 (a) (i) How could the magnesium hydroxide,  $\text{Mg}(\text{OH})_2$ , be separated from the products of the reaction?

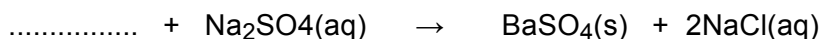
.....  
.....

(1 mark)

1 (b) Barium chloride can react with sodium sulfate to produce barium sulfate and sodium chloride.

1 (b) (i) Barium and chloride ions make barium chloride. In the space provided below, write the formula for barium chloride.

Use the Chemistry data sheet to help you.



(1 mark)

1 (b) (i) What does (aq) mean?

.....  
.....

(1 mark)

1 (c) How would the barium sulfate be separated from the solution?

.....  
.....  
.....

(1 mark)

(Total 6 marks)

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