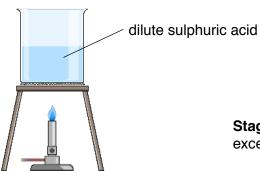
0 1 The diagram shows how hydrated copper(II) sulphate crystals can be made by reacting copper(II) oxide with dilute sulfuric acid.

Stage 1



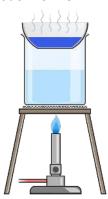
Stage 2 - add copper(II) oxide until in excess and stir



Stage 3 - filter the mixture from stage 2



Stage 4 - heat the solution from stage 3 until a hot, saturated solution forms



Stage 5 - allow the solution to cool so that hydrated copper(II) sulfate crystals form



0 1 . 1	Why is the sulfuric acid heated in stage 1?	[1 mark]
0 1 . 2	How would you know when the copper(II) oxide is in excess in stage 2?	' [1 mark]
0 1 . 3	Why is the mixture filtered in stage 3	[1 mark]
0 1 . 4	Why do crystals form when the hot saturated solution is cooled in stag	e 5? [1 mark]
0 1 . 5	State the colour of the crystals formed in stage 5.	[1 mark]
0 1 . 6	The crystals are removed by filtration and then dried. Suggest a suitable method of drying the crystals.	[1 mark]
	(Total	l 6 marks)

End