A solution of copper sulfate can be separated when heated.

Some students heated 20ml of copper sulfate solution, taken from the same batch. The diagram below shows how they set up their apparatus.

For Teacher's Use



(a) State one hazard associated with the reaction and the necessary safety precaution.

hazard:

safety precaution:

(b) The students turned off their Bunsen burners and stopped heating the solution once it had began boiling. They then left the remaining solution to evaporate for 24 hours. The students then measure the mass of the crystals collected. Below are their results.

Student	Mass of crystals (g)
Joseph	6.4
Abdullah	7.1
Susan	12.3
Candice	6.9

Calculate the mean average mass of crystals collected.

Do not include any anomalous results.

mean mass = g [2]

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