Student risk assessment: preparing a soluble salt

**Name of salt being prepared**: copper sulfate

**Name of student completing the form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Complete the sentences*

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is anything which could cause harm, eg concentrated sulfuric acid, a bag on the floor or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the chance or probability of harm actually happening and the severity of that harm.

Complete the form using any practical instructions you have been given and the CLEAPSS student safety sheets (SSS) from [science.cleapss.org.uk/Resources/Student-Safety-Sheets/](http://science.cleapss.org.uk/Resources/Student-Safety-Sheets/) (SSS codes given in the table). You can also refer to the practical video **Preparing a soluble salt** for guidance, see: [rsc.li/3pmV9sw](http://rsc.li/3pmV9sw).

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| **Hazardous substance or procedure** | **Hazard** | **Precautions/control measures to reduce risk** |
| 1.4 M Sulfuric acid – see SSS022 |  |  |
| Copper oxide (solid) – see SSS040 |  |  |
| **Hazardous substance or procedure** | **Hazard** | **Precautions/control measures to reduce risk** |
| Copper sulfate (solution and solid) – see SSS040 |  |  |
| Heating the sulfuric acid at the start and reacting it with copper oxide  |  |  |
| Evaporating the solution to form a saturated solution of copper sulfate |  |  |
| Pouring hot copper sulfate solution into an evaporating basin |  |  |

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**Name of salt being prepared** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name of student completing the form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Complete the sentences*

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is anything which could cause harm, eg concentrated sulfuric acid, a bag on the floor or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
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| **Hazardous substance or procedure** | **Hazard** | **Precautions/control measures to reduce risk** |
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| **Hazardous substance or procedure** | **Hazard** | **Precautions/control measures to reduce risk** |