**SAFETY SHEET**

**Fractional distillation of fizzy drinks**

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| **Substance** | **Hazard** | **Comment** |
| Universal indicator solution |  | H226 Flammable liquid and vapour  H315 + H320 Causes skin and eye irritation  H335 May cause respiratory irritation  P261 Avoid breathing dust /fume /gas /mist  /vapours /spray  P305+P351+P338 IF IN EYES: Rinse cautiously  with water for several minutes. Remove contact  lenses, if present and easy to do. Continue rinsing. |

**Typical control measures to reduce risk**

* Leave plenty of time for equipment to cool before packing away. Be aware sugars in conical flasks can remain hot for a long time.
* Operate under school procedures for Bunsen burners and heating. Make sure students stand for the duration of the experiment.
* Students may feel this experiment is less “serious” due to the use of food grade drinks. Impress on them the lab rules and that these still apply.

**Assessing the risks**

* What are the details of the activity to be undertaken? What are the hazards?
* What is the chance of something going wrong? *E.g. Is there the possibility of theft or foolish behaviour?*
* How serious would it be if something did go wrong?
* How can the risk(s) be controlled for this activity? *E.g.* *Can it be done safely? Does the procedure need to be altered? Should goggles or safety spectacles be worn?*

**Emergency action**

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| * **In the eye** | If solutions get in the eye, rinse for several minutes. Remove contact lenses if present and easy to do so and continue rinsing. If eye irritation persists see a doctor. |
| * **Burns** | Run burn under cool water for at least 10 minutes or  until the pain is reduced. If serious, call 999 or 112 for  medical assistance. |