



# JOB AID HAZARD AWARENESS INFO

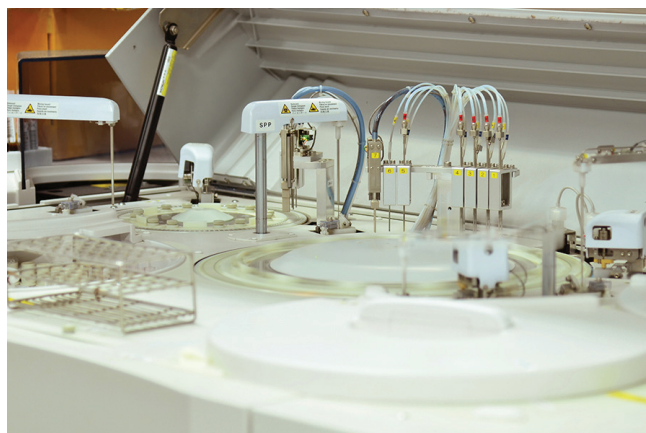
## LAB EQUIPMENT – HPLC

The food, beverage and pharmaceutical industry often uses various equipment to analyze chemicals including High Pressure Liquid Chromatography (HPLC).

A mobile phase (solvent) and in some cases a carrier gas is used to carry samples through a small tube (column) packed with a media. Depending on the density of the components of the sample, they will stop at specific points within the column. This can be compared to reference standards and, can tell an analyst the chemical that is present and the concentration.

### Hazards Involved/Arise

- Asphyxiants
- Flammable gas
  - Carrier gases can be air, oxygen, helium, hydrogen and nitrogen
- Flammable liquids
  - Mobile phase typically involve solvents such as acetonitrile, methanol, acetone
- Material handling
  - Equipment is tall and sits on a bench top



### People Affected

- Employees
- Contractors
- Visitors

### Existing Controls

- Training
- Air monitoring (depending on volume of gas versus the size of the room)
- Flammable storage cabinets
- Collection mechanism to collect flammable waste
- Lab coat
- Safety glasses
- Bench tops designed for HPLC
- Local exhaust ventilation

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