



LSRA 13 – Flammable gases

Lab Standard Risk Assessment 13: Flammable gases in labs

If referencing this standard to cover your lab work, the scope of the work must match this standard and the below controls must be communicated and followed by all operatives. All lab work must be in accordance with the chemical safety hand book.

Task Scope: Use of flammable gases and mixtures in labs for small scale experiments and testing

Persons at Risk	Operatives	Lab Technicians	Others in lab
Exposure Routes	Inhalation	Skin contact	Eye contact

Hazards		
	Explosive / flammable atmospheres	Pressurised gases

Control Measures

Minimisation of flammable inventory	Gas systems are tested for leaks including the regulator fitting	Use LEV to extract hazardous atmospheres and exhaust	People are trained in the response to gas alarms	Species-specific gas monitor used
People are able to demonstrate the competence to work safely	Ignition sources are eliminated in the work space	Fire extinguisher location is known	Gas shut off devices are known	The safety data sheet is available in the lab.

Personal Protective Equipment

		
Safety glasses	Disposable gloves	Lab coat

Emergency Arrangements

Gas leak

Shut off the gas supply if safe to do so

Leave the area, report to the EHCs and prevent others from entering the area

Wait for the hazardous atmosphere to dissipate, do not enter until instructed

Risk - Medium