

**Science (Bunsen burners) – Risk Assessment Template No. 49 (List additional hazards, risks and controls particular to your school using Template No.74)**

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Control measures	Is this control in place? Y/N	If no, what actions are required to implement the control?	Person responsible	Date action completed
Gas leak		Explosions	H	A gas shut-off/isolation valve is provided for each classroom				
		Fire	H	Gas is shut-off at end of each class from one central point				
		Burns	H	Gas supply isolated during holidays by a competent person				
			H	Gas installation including any gas detector(s) and automatic shut-off mechanism checked annually by a competent person (refer to the manufacturer's instructions)				
			H	<p>The supply pipework to each room or teaching space is fitted with a purpose designed supervisory system in accordance with <b>Annex I of I.S. 820</b>, to test the integrity of that section of installation pipework each time the device is activated</p> <p>There is an operating procedure which includes, at a minimum, deactivation of the system at the end of each working day</p>				

 **Reference**  
IS.820 is the Irish standard specification for non-domestic gas installations.

**Science (Bunsen burners) – Risk Assessment Template No. 49- cont'd. (List additional hazards, risks and controls particular to your school using Template No.74)**

Hazards	Is the hazard present? Y/N	What is the risk?	Risk rating H = High M = Medium L = Low	Control measures	Is this control in place? Y/N	If no, what actions are required to implement the control?	Person responsible	Date action completed
Unsafe use of Bunsen burner		Fire Burns Hair catching fire	H	The Bunsen burner is kept away from gas taps and tubing and the edge of the bench				
				It should be impossible for window blinds to be blown into Bunsen flames				
				Loose clothing, scarves and dangling jewellery are avoided, long hair is tied back and face is kept clear of flame				
				A utility lighter or matches is used to light Bunsen burner - never paper				
				Students are instructed on the safe use of Bunsen burner, and are supervised				
				When not in use, the Bunsen burner is turned off, or if lit but not in use, the air inlet is reduced until a visible yellow flame shows				
				The Bunsen burner and equipment is allowed to cool after use before handling and putting away (e.g. tripod stand)				
				Teacher and caretaker know how to isolate Bunsen burner				
				A fire blanket and foam fire extinguisher are in the lab				
First-aid arrangements are in place								
Use of damaged equipment, e.g. faulty tubing, blocked burner head (irregular shaped flame)			H	Rubber tubing and burners checked regularly (at least once per term), damaged tubing discarded and blocked jets cleaned as part of a regular maintenance and checking programme				

If there is one or more **High Risk (H)** actions needed, then the risk of injury could be high and immediate action should be taken. **Medium Risk (M)** actions should be dealt with as soon as possible. **Low Risk (L)** actions should be dealt with as soon as practicable.

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**Risk Assessment carried out by:** \_\_\_\_\_ **Date:** / /



**Reference**

I.S.820 is the Irish standard specification for non-domestic gas installations.