

Gas! : Risk Assessment

Activity	Hazard	Precaution	Risk
Oxygen experiment	<ul style="list-style-type: none"> Hydrogen peroxide: Irritant 	<ul style="list-style-type: none"> Used at 3% in workshop, below level classed as an irritant Pre-dispensed in boiling tube, sealed with stopper Small amount of liquid (2ml) Eye protection worn 	Low
	<ul style="list-style-type: none"> Manganese (IV) oxide: Harmful 	<ul style="list-style-type: none"> Only small amount used Students shown how to dispense carefully using a spatula 	Very Low
	<ul style="list-style-type: none"> Burns when collecting lighted splint and relighting splint in O₂ 	<ul style="list-style-type: none"> Good practise demonstrated to students first Small numbers of students collecting splints at a time Students instructed to hold splint upright with flame at top 	Low
Burning iron wool in oxygen demonstration	<ul style="list-style-type: none"> Burns from Bunsen flame 	<ul style="list-style-type: none"> Performed by trained demonstrator Students at a safe distance from flame 	Very low
Carbon dioxide experiments	<ul style="list-style-type: none"> Hydrochloric acid: Irritant 	<ul style="list-style-type: none"> Used at 1M concentration in workshop, below level classed as an irritant Eye protection worn 	Very low
	<ul style="list-style-type: none"> Burning fingers when testing for H₂ with lighted splint 	<ul style="list-style-type: none"> Good practise demonstrated to students first Students instructed to always hold splint upright with flame at top 	Low
	<ul style="list-style-type: none"> Limewater (Calcium hydroxide): Irritant, potentially hazardous if ingested 	<ul style="list-style-type: none"> Solution clearly labelled 'Irritant' Eye protection worn Students warned to blow down the straw and not to suck 	Low
Methane Bubbles	<ul style="list-style-type: none"> Burns to hand 	<ul style="list-style-type: none"> Performed by trained demonstrator Student volunteers instructed to wet hand and hold it flat 	Low