

## Laboratory Risk Assessment

<b>Procedure</b>	Preparation of sediment samples for pollen analysis
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<b>Level of Risk</b>	Medium
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<b>Hazard</b>	<b>Risk</b>	<b>Recommended Control</b>
Preparation of 10% Hydrochloric Acid from Concentrated Acid	Personal injury - chemical burns, eye injury	?? Lab coat, safety glasses and gloves must be worn at all times ?? Conc. HCl must be used in the fume cupboard with the window pulled down to the safe working height as indicated ?? Always add acid to water.
Use of 10% HCl	Personal injury - chemical burns, eye injury,.	?? Lab coat, safety glasses and gloves must be worn at all times ?? Clear up any spillages immediately according to COSHH guidelines.
Unbalanced centrifuge	Damage to centrifuge rotor and risk of personal injury - <i>A broken rotor travelling at high speed is</i>	

		<p>provided and always on the tray provided. The tray should be washed and dried before returning to the cupboard.</p> <p>?? Wipe down all surfaces in the fume cupboard after use to ensure there are no stray drips of acid.</p> <p>?? Wash down apron and gloves before removing and before handling anything else.</p> <p>?? Should HF come into contact with skin follow emergency first aid procedure outlined in the guidance leaflet (available from the Lab Supervisor).</p>
Glacial Acetic Acid	Personal injury - chemical burns, eye injury, breathing difficulties	<p>?? Lab coat, safety glasses and gloves must be worn at all times</p> <p>?? Acetic Acid must be used in the fume cupboard with the window pulled down to the safe working height as indicated.</p> <p>?? Tubes must be stoppered before centrifuging - do not remove unstoppered tubes from fume cupboard</p>
Glacial Acetic Acid	Fire/explosion	<p>?? Be aware that Acetic Acid is FLAMMABLE. Do Not use near naked flames or other sources of ignition</p>
Acetolysis mixture - Acetic anhydride and sulphuric acid	Personal injury - chemical burns, eye injury, breathing difficulties	<p>?? Lab coat, safety glasses and thick</p>

Use of tert-butyl alcohol	fire /explosion	?? FLAMMABLE. Do Not use near naked flames or other sources of ignition
Use of tert-butyl alcohol	Personal injury - eye injury, breathing difficulties	?? Lab coat, safety glasses and gloves must be worn at all times ?? Tubes must be stoppered before centrifuging - do not remove