

Laboratory Risk Assessment

Procedure	Removal of Carbonates Using 10% Hydrochloric Acid
------------------	---

Level of Risk	Medium
----------------------	--------

Hazard	Risk	Recommended Control
Preparation of 10% Hydrochloric Acid from Concentrated Acid	Personal injury - chemical burns, eye injury	<p>?? Lab coat, safety glasses and gloves must be worn at all times</p> <p>?? Conc. HCl must be used in the fume cupboard with the window pulled down to the safe working height as indicated</p> <p>?? Always add acid to water.</p>
Addition of Acid to Samples in Test Tubes	High reactivity causing sample to "bubble over"	<p>?? Procedure must be carried out in a fume cupboard.</p> <p>?? Always wear PPE</p> <p>?? Always start by adding the acid dropwise.</p> <p>?? If sample reacts violently, add water from a squeeze bottle to dilute the acid and slow the reaction down.</p> <p>?? If sample spills from tube, ensure the area is washed down and all residues cleaned from the outside of the tube.</p>

Assessment for C.O.S.H.H.

Procedure	Preparation of samples for diatom analysis
------------------	--

Substance/Procedure	Risk of exposure L/M/H*	HSE Exposure Limits (mg/m³)	Local controls used	Disposal	Emergency procedures
Preparation of 10% Hydrochloric Acid from Concentrated Acid	L	7	F/C, PPE, DG,	B, G	1, 5, 6

* Risk of exposure (Low, Medium or High) providing local controls are used
For key to symbols see separate table