

Aerosol Lab S51 Risk Assessment

June 2022

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Hazards	Who Might be Harmed?	What Control Measures Are In Place?
General – covering all hazards listed below	Room users	<ul style="list-style-type: none"> - No unauthorised working out of hours - All users receive training and authorisation before starting work - Appropriate level of supervision given to all users - Entry controlled and briefed on hazards - Hazardous activities reduced as far as reasonably practical
Hazardous substances	Room users	<ul style="list-style-type: none"> - COSHH forms completed for chemicals in use - Chemicals dispensed in fume cupboard - Appropriate PPE available and used
Failure of fume cupboards	Room users	<ul style="list-style-type: none"> - Warning lights indicate fume extraction failure - Fume cupboards checked annually
Electricity	Room users	<ul style="list-style-type: none"> - Portable equipment electrically safety inspected and tested regularly - Circuit breaker protection on electrical circuits electrically safety inspected - Electrical modifications/repairs only by competent person
Aerosol Equipment <ul style="list-style-type: none"> • Topaz aerosol generator • Wrightson dust feeder • Sequential Mobility Particle Sizer + Counter (SMPS+C) • Aerodynamic Particle Sizer 	Room users	<ul style="list-style-type: none"> - The use of aerosol equipment is restricted to those who have been trained to use it. - Aerosol experiments should exhaust particles into the fume cupboard. - Manuals for equipment are available at https://eodg.atm.ox.ac.uk/eodg/equipment/alr.html - The charge neutraliser for the SMPS is only to be used by those who have attended the radioactive safety course. While not in use it must be placed in the safe. The source should be checked monthly and the check is recorded in the safety book adjacent to the safe.