

CRL – E. A. Anderson Group – General Risk Assessment OCTOBER 2008

All experiments are conducted in a fume hood according to **RISK ASSESSMENT 6P**. PPE including lab coat, safety specs are worn at all times in the laboratory according to GLP. Gloves are worn when handling chemicals or any contaminated equipment.

Glassware is handled according to **RISK ASSESSMENT 1P**. Vacuum pumps are used according to **RISK ASSESSMENT 9E**, when a liquid nitrogen trap is used, it is used in accordance with **RISK ASSESSMENT 9C**. All electrical equipment is used in accordance with **RISK ASSESSMENT 1E**.

Aqueous work ups are conducted in accordance with **RISK ASSESSMENT 3C**. Column chromatography is conducted in accordance with **RISK ASSESSMENT 8P**. Where visualising TLC plates, UV light sources are used in accordance with **RISK ASSESSMENT 8E**.

Any contaminated sharps are disposed of in accordance with **RISK ASSESSMENT 5P**. Waste solvent is disposed of in accordance with **RISK ASSESSMENT 3P**. Washing up is performed in accordance with **RISK ASSESSMENT 4P**. Transport, storage and use of flammable liquids including solvents is performed in accordance with **RISK ASSESSMENT 6C**.

RISK ASSESSMENT 6P	Use of a fume hood
RISK ASSESSMENT 1P	Handling Glassware
RISK ASSESSMENT 9E	Use Of Vacuum Pumps
RISK ASSESSMENT 9C	Liquid Nitrogen
RISK ASSESSMENT 1E	Electrical Equipment
RISK ASSESSMENT 3C	Aqueous work-ups
RISK ASSESSMENT 8P	Column chromatography
RISK ASSESSMENT 8E	Ultraviolet Light Sources
RISK ASSESSMENT 5P	Disposal of sharps
RISK ASSESSMENT 3P	Disposal of waste solvents
RISK ASSESSMENT 4P	Washing up
RISK ASSESSMENT 6C	Transport / use of flammable liquids

SPILLAGES AND DISPOSAL: Individual spillage / disposal assessments are required for toxic / pyrophoric / highly corrosive / smelly substances (ie anything with its own COSHH form). General spillages and disposal are covered with the following guidelines:

Disposal – non-hazardous chemicals. Non-halogenated or halogenated waste containers for solutions / solvents (3P) / column solvents. Aqueous solutions to be neutralised before disposal down the sink.

Disposal – hazardous chemicals. Use of appropriate technique to neutralise / react residual compounds; hazardous residues to be bottled and labelled appropriately for disposal by safety office. Contents and amounts must be detailed.

Spillage – hazardous chemicals. In the event of a hazardous chemical spillage, pull the hood down and walk away, notify other group members (possibly evacuate lab), EAA, and safety office.

Less hazardous spillages can be left to evaporate (if volatile) or mopped up with paper towels which are then to be bagged and labelled.

Treat any personal spillages according to specific risk assessments – often irrigate with copious quantities of water for 20-30 min.