# Chemical Waste Disposal Procedure

# Background

The disposal of chemical waste is regulated by the Health and Safety Executive (HSE), the Environment Agency (EA) and in some cases the Home Office.

The aim of this document is to provide information to enable you to dispose of chemical waste safely and comply with the Environmental Permitting (England and Wales) Regulations 2016. It should be read together with the project risk / Control Of Substances Hazardous to Health (COSHH) assessment which should state how waste will be disposed of.

It is important that the information in this document is followed both for your safety and for the safety of others.

**Personal Hazards associated with disposing of Laboratory Waste**

1. Mixing of incompatible chemicals.
2. Release of chemical vapours both inside and outside of the building
3. Leakage of material from bottles.
4. Spills of material being transported.

# Identifying Chemical Hazards

1 Check the chemical bottle or Safety Data Sheet SDS for hazard warnings signs.

2. Chemicals with the following signs must never be mixed in the same bottle

e.g. Nitric Acid and ethanol

Similarly

Flammable liquids and oxidising agents.

# Disposal Procedure for hazardous chemicals

1. Chemicals which are labelled with a hazard warning sign must be disposed of via the SHE office.
2. A chemical waste disposal form available at this link https://portal.sgul.ac.uk/she/forms-1/chemical-waste-disposal-spreadsheet-2014-split-windows-ver2.xlsx should be completed and sent to the SHE office.

   Some chemicals may pose more than a single hazard and all hazards should marked.

3. A time should be arranged with the SHE office to transfer the waste to the chemical waste store which is located outside near Site Services.

4. When moving the waste a trolley with closed sides should be used. A spill kit should be available in case of a spill of material.

# Disposal Procedure for selected water soluble chemicals

The following chemicals can be disposed of via laboratory sinks with copious amounts of water.

Sodium Chloride
Potassium Chloride
Sucrose
Sodium Hydrogen Carbonate
Glucose

The following chemicals can be disposed of via laboratory sinks with copious amounts of water after the pH has been adjusted to 7.0.

Sodium phosphates
Potassium phosphates
Sodium Orthophosphates
Potassium Orthophosphates
Ammonium Acetate
Tris / Trizma base

The following chemicals can be disposed of via fume hood laboratory sinks with copious amounts of water.

Dilute Acetic Acid (fume hood)

# Disposal Procedure for Cytotoxic / cytostatic chemicals

Cytotoxic chemicals must be disposed of via purple lidded sharps bins which must then be disposed via a purple lidded caddy.

# Disposal Procedure for Controlled Drugs

Controlled drugs are those which are currently controlled under the misuse of drugs legislation showing their respective classifications under both the Misuse of Drugs Act 1971 (MDA) and the Misuse of Drugs Regulations 2001 (MDR) The current list of controlled drugs can be accessed via the Home Office website

Controlled drugs must be disposed of via blue lidded containers after the drugs have been denatured.

Professor Mark Fisher currently holds the Home Office licence for SGUL and he must be notified of the purchase of any controlled drug and of the final disposal of any controlled drug.

# Disposal Procedure for Chemicals that are controlled under the Chemical Weapons Convention

Chemicals are categorised under three 3 schedules and restrictions apply to their purchase and disposal. Information on the Schedules.

Schedule 1
These are highly restricted chemicals which require special permission for use and special arrangements must be made with the SHE office for these chemicals to be acquired and also for their disposal. These chemicals may not be transferred to states outside of the chemical weapons convention.

Schedule 2
These are chemicals which should be notified to the SHE office. The SHE office should be contacted to make arrangements for their disposal

Schedule 3
These are chemicals which should be notified to the SHE office. The SHE office should be contacted to make arrangements for their disposal.