Doc PHSC 7

**Hazardous Chemical Safety Procedures**

**Table of Contents**

[1. Governing Policy](#_Toc147239358)

[2. Purpose](#_Toc147239359)

[3. Scope](#_Toc147239360)

[4. Definitions](#_Toc147239361)

[5. Hazardous Chemical- General Safety Duties](#_Toc147239362)

[6. Non-Hazardous Chemicals and Consumer Products](#_Toc147239363)

[7. Risk Assessment and Management of Hazardous Chemicals](#_Toc147239364)

[8. Consultation](#_Toc147239365)

[9. Safe Work Procedures (SWP)](#_Toc147239366)

[10. Safety Data Sheets (SDSs)](#_Toc147239367)

[11. Emergency Preparedness](#_Toc147239368)

[12. Accident/ Incidents Involving Chemicals](#_Toc147239369)

[13. Purchasing Hazardous Chemicals](#_Toc147239370)

[14. Labelling](#_Toc147239371)

[15 Hazardous Chemicals Register.](#_Toc147239372)

[16. Hazardous Chemicals Manifest and Placarding.](#_Toc147239373)

[17. Induction, Training and Supervision](#_Toc147239374)

[18. Facilities and Amenities](#_Toc147239375)

[19. Health Monitoring](#_Toc147239376)

[20. Hazardous Chemicals and Pregnancy](#_Toc147239377)

[21. Storage](#_Toc147239378)

[22. Permits and Licences](#_Toc147239379)

[23. Chemicals of Security Concern](#_Toc147239380)

[24. Explosives (not including SSAN)](#_Toc147239381)

[25. Security Sensitive Ammonium Nitrate](#_Toc147239382)

[26. Export and import of chemicals](#_Toc147239383)

[27. Manufacturing of Research Chemicals](#_Toc147239384)

[28. Waste Management](#_Toc147239385)

[29. Record Keeping](#_Toc147239386)

[30. Responsibilities](#_Toc147239387)

[31.Related Procedures and Links](#_Toc147239388)

[32. Legislative framework](#_Toc147239389)

[33. APPENDIX A – CHEMICAL SPILL EMERGENCY RESPONSE](#_Toc147239390)

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# Governing Policy

[Work Health and Safety Policy](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/work-health-safety-policy.pdf)

[Work Health and Safety Management System](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/work-health-safety-management-system.pdf)

# Purpose

These procedures set out the requirements for managing the health and safety risks associated with the use of hazardous chemicals in the University.

# Scope

1. These procedures apply to:
* all University operations where hazardous chemicalsare stored, used, produced or disposed.
* all workers, students, visitors or others at all Flinders University workplaces.
1. These procedures apply to the following products **only** if their use is related to a work activity:
* food and beverages
* therapeutic goods
* cosmetics and toiletries
* tobacco and tobacco products
1. These procedures do not apply to the management of asbestos, biological or radioactive materials, which are covered by separate individual procedures.
2. These procedures must be read in conjunction with the [Hazardous Chemicals Manual](https://staff.flinders.edu.au/content/dam/staff/documents/whs/hazardous-chemical-manual.pdf)

# Definitions

|  |  |
| --- | --- |
| Chemicals of Security Concern  | Chemicals that can be used to make homemade explosives or toxic devices as listed in the [National Code of Practice for Chemicals of Security Concern](https://www.nationalsecurity.gov.au/protect-your-business/chemical-security/national-code-of-practice) |
| *Includes Security Sensitive Ammonium Nitrate (SSAN) and Explosives* | Ammonium nitrate or ammonium nitrate mixture at greater than 45% mass per mass mixed with any other substance, but not in solution. |
| ChemWatch | The online source of chemical information and safety data sheets (SDS) used by the University to assist with the management of hazardous chemicals. |
| Controlled substances (or scheduled drugs and poisons) | Substances which require licensing under the [*Controlled Substances Act 1984* (SA).](https://www.legislation.sa.gov.au/lz?path=%2FC%2FA%2FCONTROLLED%20SUBSTANCES%20ACT%201984) |
| Consumer product | Substances that are primarily for household use or in an office and which are used and packed in ways and quantities for household or office use. |
| Cytotoxic Drugs | Cytotoxic drugs are chemicals that are highly toxic to cells mainly through their actions on cell replication. Many are carcinogenic, mutagenic or teratogenic. They are a subset of antineoplastic drugs. |
| Explosives |  A compound or mixture containing those chemicals listed under the [*Explosives (Security Sensitive Substances) Regulations 2021*](https://www.legislation.sa.gov.au/lz?path=/c/r/explosives%20(security%20sensitive%20substances)%20regulations%202021)which are used or manufactured to produce the practical effect of an explosion or a pyrotechnic effect. |
| Dangerous substances/goods[[1]](#footnote-2) | Substances or articles that are toxic, corrosive, flammable or otherwise dangerous and defined by the Dangerous Substances legislation to be dangerous. |
| Exposure Standards | Exposure standard in the [*Workplace exposure standard for airborne contaminant*](https://www.safeworkaustralia.gov.au/doc/workplace-exposure-standards-airborne-contaminants)*s* which represents the airborne concentration of a particular substance or mixture that must not be exceeded.  |
| GHS | The Globally Harmonized System of Classification and Labelling of Chemicals, Revised Edition, published by the United Nations, as modified by Schedule 6 of the [SA Work Health Safety Regulations.](https://www.legislation.sa.gov.au/lz?path=/c/r/work%20health%20and%20safety%20regulations%202012) |
| Hazardous chemical | A substance, mixture or article that;* can be a health or physiochemical hazard.
* satisfies the criteria for one or more hazard classes in the Globally Harmonized System (GHS), including a classification referred to in Schedule 6 of the [SA Work Health Safety Regulations.](https://www.legislation.sa.gov.au/lz?path=/c/r/work%20health%20and%20safety%20regulations%202012)

For these procedures, hazardous chemicals also include dangerous substances, controlled substances (scheduled drugs and poisons), prohibited and restricted carcinogens, restricted chemicals and security sensitive ammonium nitrate or other security sensitive substances and carbon nanotubes. |
| Hazardous Chemicals Manifest | A written summary, primarily for emergency services, for specific types of hazardous chemicals with physical hazards, acute toxicity or skin corrosion, that are used, handled or stored at a workplace. |
| Hazardous Chemical Register | A list of the product names of all hazardous chemicals used, handled or stored at the workplace accompanied by the current Safety Data Sheet (SDS) for each hazardous chemical listed.*Note: ChemWatch is the University-wide online system for maintaining chemicals registers and accessing Safety Data Sheets (SDSs).* |
| Placard | A sign or notice containing information about hazardous chemicals, which is displayed in a prominent place where the chemicals are used or stored. |
| Placard Quantities | The quantities referred to in Schedule 11 of the [SA Work Health Safety Regulations.](https://www.legislation.sa.gov.au/lz?path=/c/r/work%20health%20and%20safety%20regulations%202012) |
| Precursor Chemicals | Any substance whether natural or synthetic and specified in the SA [*Controlled Substances Act 1984* (SA).](https://www.legislation.sa.gov.au/lz?path=%2FC%2FA%2FCONTROLLED%20SUBSTANCES%20ACT%201984) |
| Prohibited and restricted carcinogens and restricted chemicals | Chemicals which are hazardous as they may cause cancer. *Note: those substances listed in the (Schedule 10)* [SA Work Health Safety Regulations.](https://www.legislation.sa.gov.au/lz?path=/c/r/work%20health%20and%20safety%20regulations%202012)*and have been listed as Prohibited or Restricted Carcinogens require a permit from SafeWork SA (or equivalent interstate Regulator).* |
| Safe Work Procedure (SWP) | A written document which outlines the risks associated with a work task or activity and lists the associated control measures into step-by-step instructions for conducting the work safely. |
| Safety Data Sheet (SDS) | Document prepared by the manufacturer or importer of a chemical that provides information about uses, chemical and physical properties, health hazard information, precautions for use, safe storage and handling and emergency information. SDSs are obtained directly from the manufacturer or through the online ChemWatch SDS database. To be considered current they must be no more than 5 years old. |
| Teratogen/ Embryotoxic/ Reproductive toxin | An agent or factor which causes malformation of an embryo or foetus. |
| Worker | A person who carries out work in any capacity for the University including all academic and professional staff, contractors and sub-contractors and their employees, labour hire company employees, trainees, persons gaining work experience and volunteers |

# 5. Hazardous Chemical- General Safety Duties

The University must manage the risks to health and safety associated with using, handling, generating, storing or disposing of hazardous chemicals at the workplace, including:

1. identifying any risk of physical or chemical reaction of hazardous chemicals and ensuring their stability.
2. providing adequate information, training, instruction and supervision to workers, students and others.
3. providing emergency plans and procedures and equipment, including spill containment and clean up systems.
4. providing access for all workers, students or others to current Safety Data Sheets (SDSs) by either obtaining them from the manufacturer, importer / supplier of the chemical or via ChemWatch.
5. ensuring hazardous chemicals used, handled or stored in the workplace do not become unstable, decompose or change so as to become hazardous.
6. ensuring that ignition sources are controlled where there is a possibility of fire or explosion when flammable or combustible substances are present.
7. ensuring correct labelling of all containers, pipework, and waste items that contain hazardous chemicals.
8. ensuring [workplace exposure standards](https://www.safeworkaustralia.gov.au/doc/workplace-exposure-standards-airborne-contaminants-2022)for hazardous chemicals, where set, are not exceeded.
9. providing [health monitoring](https://www.safeworkaustralia.gov.au/doc/hazardous-chemicals-requiring-health-monitoring)  (where required).
10. maintaining appropriate registers and manifests (where relevant) of hazardous chemicals and notifying the regulator where required.
11. ensuring the stability and support of containers for bulk hazardous chemicals, including that they are secure and bunded to prevent any damage to containers or release of material.
12. obtaining appropriate licensing and permits where required and ensuring regulatory requirements specified are complied with.

# 6. Non-Hazardous Chemicals and Consumer Products

a. If the chemical is a **Non-Hazardous Substance and a Non-Dangerous Good**, and it is being used as per the manufacturer’s instructions and controls as specified in the Safety Data Sheet then there is;

* no need for a formal documented risk assessment or Safe Work Procedure (SWP)
* no need to be listed in a hazardous chemical register
* however any risks associated with the chemicals must still be managed.

b. Consumer products (e.g. household cleaners, dishwashing liquids, whiteboard cleaners) that are only used in the workplace in ways and quantities consistent with household use;

* do not require a SDS or risk assessment and
* do not need to be listed in a hazardous chemicals register.

c. Labels must however be present and have sufficient information about safe use, handling and storage of the chemical and must be legible on all containers and instructions must be followed.

d. Where domestic chemicals are used in a manner or quantity different to normal household use (i.e. bulk storage or research use) then a SDS, risk assessment and safe work procedure is required, appropriate controls must be implemented and chemicals entered onto the ChemWatch manifest.

# 7. Risk Assessment and Management of Hazardous Chemicals

1. The risks to health and safety associated with all aspects of hazardous chemicals must be managed in accordance with WHS legislation, [Codes of Practice for Managing Risk of Hazardous Chemicals in the Workplace](https://www.safework.sa.gov.au/__data/assets/pdf_file/0005/136274/Managing-risks-of-hazardous-chemicals.pdf), Australian Standards and any relevant licenses or permits and the University [WHS Risk Management Procedures](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/whs-risk-management-procedures.pdf) and [Hazardous Chemical Manual](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety)
2. A risk assessment should be undertaken before purchasing the chemical to see if the hazardous chemical can be eliminated.
3. The risk assessments must identify;
* physical risks (e.g. fire, explosion, burns)
* health risks - both short and long term (e.g. poison, carcinogen, teratogen).
1. A Risk Assessment must identify all reasonably foreseeable risks posed by a hazardous chemical including:
* when purchasing, generating, using, storing, transporting, handling waste and disposal;
* when dealing with spills and other emergencies that may arise from chemicals.
1. Where risks are identified then all efforts should be made to;
* eliminate the use of that chemical where reasonably practicable to do so, or
* substituted with a less hazardous chemical or
* minimized the risk by selecting control measures or a combination of controls in line with the WHS [Hierarchy of Risk Control](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/whs-risk-management-procedures.pdf) as specified in the [WHS Risk Management Procedure](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/whs-risk-management-procedures.pdf).
* Risk is reduced by minimizing the amount of chemicals on site. There are strict limits regarding the amount of chemicals allowed to be [stored and used](https://staff.flinders.edu.au/content/dam/staff/documents/whs/dangerous-goods-storage.pdf) in areas.
* Information for the selection of appropriate control measures should be identified from the SDS, labels, Regulations, Codes of Practice, Australian Standards and the [Hazardous Chemical Manual.](https://staff.flinders.edu.au/content/dam/staff/documents/whs/hazardous-chemical-manual.pdf)
1. Controls identified during risk assessment process must be documented and;
* checked, maintained and reviewed for effectiveness and if needed changed to ensure, as far as reasonably practical, that a safe work environment is maintained.
* reflected in the associated Safe Work Procedure (SWP) including how they are to be used.
1. Personal Protective Equipment (PPE) as a control should be used as a last resort or in combination with higher level controls.
2. Where it is identified as a suitable control, the PPE must be appropriate for the hazardous chemical, fit correctly and be maintained in line with manufacture instructions.
3. Appropriate information, training and supervision must be provided in the safe use of all controls including the PPE.
4. Completed hazardous chemical risk assessments, including proposed control measures, must be authorised by the manager/supervisor who is responsible for the area or activity.
5. Risk Assessments, Safe Work Procedures and all associated controls must be reviewed every **5 years or when there is a change**. The review must assess and confirm that the controls remain effective.
6. Risk assessments must be kept as per the [WHS Record Keeping](https://staff.flinders.edu.au/content/dam/staff/documents/whs/whs-records-management.pdf) requirements by the local area (hard copy or electronic) and must be available to all workers, students and others who will be using the hazardous chemicals.

# 8. Consultation

a. Throughout the risk assessment process, managers /supervisors must consult, so far as is reasonably practicable with:

* workers who use, or are likely to use the hazardous chemical(s)
* elected Health and Safety Representatives (HSR’s)
* where relevant, students and other persons who may need to work with or be exposed to the chemicals.

b. Consultation, cooperation and coordination must also occur with other businesses or organisations (PCBUs) involved with hazardous chemicals at University workplaces (for example, those who carry out deliveries or cleaning) or who share the workplace with the University (for example, in joint research or teaching facilities).

# 9. Safe Work Procedures (SWP)

* 1. Where control measures have been identified in the risk assessment, a [Safe Work Procedure](https://staff.flinders.edu.au/workplace-support/whs/information-documents/forms) (SWP) must be developed and include how the controls are to be implemented/ used for the relevant task/activity.
	2. The SWP must address all activities concerning the hazardous chemicals including how it will be safely stored, used, handled, transported, disposed of and how to address any emergencies that may arise (e.g. spills).
	3. SWPs must be signed by the relevant manager/ supervisor.
	4. SWP, along with the relevant risk assessment and controls must be reviewed to ensure they remain effective as a minimum every **5** years or whenever there are any changes made.
	5. SWPs (electronic or hard copy) must be kept as per the [WHS Record Keeping](https://staff.flinders.edu.au/content/dam/staff/documents/whs/whs-records-management.pdf) and available to all workers, students and where relevant others who will be using or exposed to the hazardous chemicals.

# 10. Safety Data Sheets (SDSs)

1. A Safety Data Sheet (SDS) must be available for every hazardous chemical purchased, stored, used, or transported for all University activities, including at any off-site locations and field work.
2. A current SDS must be obtained from the manufacturer, importer or supplier or through the [ChemWatch](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety) system.
3. The SDS must be obtained before the chemical is used for the first time.
4. SDSs must be readily accessible to all workers, students and where relevant others who use or maybe exposed to the hazardous chemical.
5. SDS sheets must be available to the Emergency Services (Fire, Police and Ambulance) or anyone else who may be exposed or to those who may be required to treat people working with hazardous chemicals (e.g. first aiders).
6. If only electronic copies are used via [ChemWatch](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety) to maintain SDS, all workers and students in the area must know how to access and use the ChemWatch system. There should be a backup means of providing SDSs in the event of a computer or power failure.
7. For hazardous chemicals where the Chemwatch **Hazard Alert Code is 4** a hard copy of the SDS must also be kept in the location (e.g. Laboratory) where that chemical is used.
8. Where SDS sheets are kept as hard copies these must be kept current, that means they must be no older than 5 years from the date of issue.

# 11. Emergency Preparedness

**11.1 Emergency planning**

1. The University has developed an [emergency response procedures](https://staff.flinders.edu.au/content/dam/staff/documents/whs/guidelines/emergency-procedures.pdf) for hazardous chemicals ( also see appendix A).
2. Where relevant, if Schedule 11 hazardous chemicals exceed manifest quantities, then an emergency manifest will be developed as required in the WHS Regulations.
3. The Emergency Plan must be developed in consultation with workers, where relevant Emergency Services and other organisations.

**11.2 Emergency and safety equipment**

1. Emergency and safety equipment (e.g. spill kits) must be available for containing and cleaning up spills.
2. Equipment must be readily accessible to workers and others if an emergency arises.
3. Equipment must be sign posted, inspected and maintained in accordance with the manufacturer’s instructions and relevant Australian Standards.
4. Fire protection, firefighting and other related emergency equipment must be available and suitable for the types of hazardous chemicals at the workplace with regards to the type and quantities in which they are used, handled or stored.

**11.3 Local emergency practices**

1. Areas which use hazardous chemicals must also be aware of practices and equipment in place relevant for a local emergency response in the event of a spill, leak, fire, explosion or other emergency situation and must cover, where relevant;
* evacuation points
* emergency power, gas and electrical shut off buttons
* location and use [of spill kits](https://staff.flinders.edu.au/content/dam/staff/documents/whs/hazardous-chemical-manual.pdf)
* location of safety showers and eye wash stations
* first aid facilities
* fire extinguishers and blankets.
1. Workers, students and others must be informed and trained in local emergency practices.
2. Information and spill practices including for specific hazardous chemicals can be found in the [Hazardous Chemical Manual](https://staff.flinders.edu.au/content/dam/staff/documents/whs/hazardous-chemical-manual.pdf)

# 12. Accident/ Incidents Involving Chemicals

* 1. All incidents or accidents involving hazardous chemicals must be reported in FlinSafe and investigated in accordance with the [Accident, Incident and Hazard Reporting and Investigation Procedures](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/accident-incident-hazard-reporting-investigation-procedures.pdf).
	2. A [notifiable incident](https://staff.flinders.edu.au/workplace-support/whs/report-accident-incident-hazard/report-accident-incident-hazard). For hazardous chemicals is any incident that;
* that involves an uncontrolled leak, release or escape of a hazardous chemical/substance, or
* where a person receives medical treatment within 48 hrs of exposure to a chemical/substance
* where there is a fire or explosion.

 c. These notifiable incidents must be reported immediately to University Security and/ or the Associate Director, Work Health and Safety.

*See* [*Notification of WHS Incidents*](https://staff.flinders.edu.au/content/dam/staff/documents/whs/notification-of-changes-in-reporting-of-incidents.pdf) *and the* [*Notifiable Incident Flow Chart*](https://staff.flinders.edu.au/content/dam/staff/documents/whs/notifiable-flow-chart.pdf) *for more information.*

# 13. Purchasing Hazardous Chemicals

1. Before purchasing chemicals, the responsible person must;
2. obtain the SDS, check the hazards, precautions for use and the storage requirements to determine if the chemical should be eliminated or be substituted for a safer alternative.
3. if a safer alternative is not reasonably practicable, determine all additional controls needed to be implemented and document these in the risk assessment.
4. The minimal amount that is needed should be purchased and amounts purchased must not exceed the [allowed legal storage limits](https://staff.flinders.edu.au/content/dam/staff/documents/whs/dangerous-goods-storage.pdf) for the chemical type.
5. Prior to purchasing the person responsible must check if the chemicals are classified under any of the following:
* controlled substances (includes scheduled poisons)
* dangerous substances
* prohibited and restricted carcinogens
* chemicals of security concern, including sensitive ammonium nitrate and explosives
* prescribed or precursor chemicals (includes schedules 8 and 9)
1. If the above classes of chemicals are to be purchased, then specific permits or licensing is required and must be obtained and held by the University prior to purchase. Those staff wishing to purchase one of the above categories of chemicals for the first time must check with the WHS Unit to ensure they are covered by the relevant permit.
2. Permits/ licenses must be approved by the University (in most cases this will be the Vice-President (Corporate Services), or where they are issued to an individual, they must be approved by the worker’s supervisor.
3. A copy of all permits (including those issued to individuals) must be provided to the WHS Unit.
4. Where staff obtain chemicals under a permit/licence, they must adhere to requirements specified on those permits/licences regarding restrictions of use, secure storage, appropriate disposal and record keeping.
5. Chemicals that require a permit/licence must not be purchased or obtained via personal means.

# 14. Labelling

1. All hazardous chemicals, including those purchased or produced either directly or as a by-product of work in the University, must be classified and correctly labelled in accordance with the Code of Practice [Labelling of Workplace Hazardous Chemicals](https://www.safework.sa.gov.au/__data/assets/pdf_file/0009/136269/Labelling-Hazardous-Chemicals.pdf) and the [Globally Harmonised System of Classification and Labelling of Chemicals (GHS) .](https://www.safeworkaustralia.gov.au/safety-topic/hazards/chemicals/classifying-chemicals/using-ghs)
2. Those purchasing chemicals must only accept chemicals from manufacturers/suppliers which are correctly labelled.

Labels must;

* be in English,
* having an Australian supplier or manufacturer identified,
* have a product identifier (name or CAS number)
* have all required hazard statements and pictograms clearly on the label.
1. When a hazardous chemical is transferred or decanted from a supplier’s container and is not used immediately, the container must be labelled in accordance with the Code of Practice [Labelling of Workplace Hazardous Chemicals](https://www.safework.sa.gov.au/__data/assets/pdf_file/0009/136269/Labelling-Hazardous-Chemicals.pdf)includin*g* all relevant hazard information and hazard signage (pictogram).
2. Re-used containers must have the old label removed or totally covered with the new label.
3. Food and beverage containers (e.g. drink bottles, jars) must **Never** be used for hazardous chemical storage.
4. Waste containers containing hazardous chemicals must have clear and appropriate labels including all the items listed above in point b.
5. Hazardous chemicals contained in an enclosed system (e.g. a pipe or piping system) must be identified by a label, sign or markings on the pipework in accordance with *AS 1345-1995 Identification of the contents of pipes, conduits and ducts.*

# 15 Hazardous Chemicals Register.

* 1. Each laboratory/ workshop/area that uses chemicals must maintain a chemical register on [ChemWatch](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety) which includes;
1. a list of all hazardous chemicals used, handled or stored and a SDS (preferable the Vendor SDS).
2. the maximum quantities held or used in that area.
	1. Registers must be readily accessible to workers, students and others involved in using, handling or storing hazardous chemicals and to anyone else who is likely to be affected by a hazardous chemical in the area.
	2. If people in the area do not have access to ChemWatch, then a hard copy must be available.
	3. Registers must be updated as new hazardous chemicals are introduced to the workplace and/ or when the chemical is discontinued and disposed.
	4. Registers at a minimum are to be reviewed every **12 months** to check it reflects the current chemical storage in the area.
	5. Chemical registers must be available to Emergency Services if requested.
	6. Contractors who use hazardous chemicals must keep on site at a safe location, a hard copy of their register and SDS of the hazardous chemicals being used.

# 16. Hazardous Chemicals Manifest and Placarding.

1. If relevant the University will prepare a manifest and keep it up to date where the quantities of Schedule 11 hazardous chemicals exceed specified quantities (see [WHS Regulations- Schedule 11)](https://www.safeworkaustralia.gov.au/safety-topic/hazards/chemicals/hazardous-chemical-records-and-signs-workplaces/placard-and-manifest-threshold-quantities)
2. Manifests must be available to Emergency Services personnel as required.
3. The University must ensure that outer warning placard(s) are prominently displayed at the workplace if the total quantity of a Schedule 11 hazardous chemical or group of Schedule 11 hazardous are present in amounts as per the regulations.

# 17. Induction, Training and Supervision

1. Supervisors must provide workers, students and where relevant others, with a [local Work Health and Safety](https://staff.flinders.edu.au/content/dam/staff/documents/whs/checklists/whs-induction-checklist.pdf) induction relevant for the particular laboratory/ workshop / studio and identify any hazardous chemicals or processes they will use.
2. Sufficient information, training and supervision must be provided to enable users to work safely with hazardous chemicals. This must include information about the nature of the hazard and the controls in place to manage the risks. This must include the information contained in the relevant Risk Assessment and Safe Work Procedure.
3. The local area must keep training records in accordance with WHS Record [Keeping](https://staff.flinders.edu.au/content/dam/staff/documents/whs/whs-records-management.pdf)

# 18. Facilities and Amenities

1. When a new laboratory or other area using chemicals is built or the facility is upgraded, it must be brought, where reasonably practical, into compliance with AS/NZS 2982.1 and the AS/NZS 2243 series.
2. Laboratories, studios, workshops and other areas where chemicals are used or stored must display appropriate signage at the entrance(s) stating the hazards, access requirements and any controls (e.g. PPE) that are applicable.
3. Separate hand washing facilities must be provided in each laboratory/workshop/area where chemicals are used.
4. Food or drink must **not** be stored or consumed inside areas where hazardous chemicals are stored or used.
5. There must be access to appropriate spill kits of suitable size and type to manage spills.
6. Areas must have access to first aid kits which are appropriate to the risks involved. See [First Aid Procedure](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/first-aid-procedures.pdf) for details.
7. Emergency safety showers and eye wash stations must be accessible where hazardous chemicals are used in a way or quantity that poses a risk. They must be positioned at a distance of no more than 15 metres or 10 seconds travel from any position in the laboratory where hazardous chemicals are used.
8. These eye wash and safety shower facilities must be flushed, checked and maintained. See [First Aid Procedure](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/first-aid-procedures.pdf) for details.
9. Where fumes or airborne contaminants are generated, either through use or storage of chemicals, the area must have in place adequate controls to;
* prevent risk to health or safety from the contaminants.
* maintain atmospheric contamination below any set [workplace exposure standards](https://www.safeworkaustralia.gov.au/doc/guidance-interpretation-workplace-exposure-standards-airborne-contaminants).
* Maintain conditions to prevent the risk of fire or explosion.
1. Ventilation systems such as fume cupboards or local exhaust ventilation, where required as a control, must;
* be used, tested and maintained in line with the manufacturer’s recommendations and Australian Standard AS/NZS 2243.9, and
* have a label affixed to the unit to indicate that they have been tested within the last 12 months.
1. Where a risk assessment has identified a risk to health and safety from asphyxiation, toxic or flammable environment could result, either from normal operations or as an unintended release (e.g. leak or spill), then appropriate air monitoring devices and alarms must be installed, tested and maintained.
2. Adequate facilities to hang or store PPE in a clean and usable manner (such as adequate hooks for lab coats) must be available.

# 19. Health Monitoring

1. Health monitoring must be provided to a worker or student carrying out ongoing work that involves using, handling or storing hazardous chemicals where a risk assessment has identified there is a **significant risk to health** due to potential exposure to hazardous chemicals as specified in the [WHS Regulations (schedule 14)](https://www.legislation.sa.gov.au/lz?path=/c/r/work%20health%20and%20safety%20regulations%202012) or [Hazardous Chemicals requiring Health Monitoring](https://www.safeworkaustralia.gov.au/doc/hazardous-chemicals-requiring-health-monitoring).
2. Where health monitoring requirements have been identified by risk assessment or other means then that must be reported to the WHS Unit by the manager/ supervisor.
3. Health monitoring must be performed by, or under the supervision of, a registered medical practitioner with experience in health monitoring. The University selects the authorised medical practitioner, in consultation with the worker or student concerned.
4. A copy of the health monitoring report must be provided to the worker or student. If the report contains adverse test results or recommendations that remedial measures should be taken, the relevant Regulator must also be notified.
5. Except as required by legislation, health monitoring reports must not be disclosed to anyone without the written consent of the worker or student.

# 20. Hazardous Chemicals and Pregnancy

1. Workers or students who may use chemicals which as indicated by the SDS, are potential agents which may cause malformation or toxic effects to an embryo (e.g. teratogens, embryotoxic, fetotoxic) or may pose other risks during pregnancy or lactation, should seek medical advice prior to any use.
2. The risks associated with these chemicals must be included in the risk assessment process.
3. Where a risk assessment identify that these chemicals pose a risk then the person should declare their pregnancy to their supervisor/ manager at the earliest possible time, on the understanding that the matter will be kept as confidential as possible.
4. Workers and students should minimise their exposure to chemical materials as much as possible by cooperating fully in any effort that is made to fairly and sensibly modify their duties in order to minimise these risks.
5. They should report immediately any suspected significant exposures to their supervisor/ manager or the WHS Unit and their Doctor.
6. Supervisors/ managers are required to facilitate, in accordance with current workplace agreements, reasonable modification of duties in accordance with special needs during pregnancy or breast-feeding.

# 21. Storage

1. All hazardous chemicals must be stored in quantities as low as reasonably possible (this includes waste) and must not exceed quantities allowed by the legislative requirements of minor storage and as per [Australian Standards](https://staff.flinders.edu.au/content/dam/staff/documents/whs/dangerous-goods-storage.pdf) requirements for laboratories and workshops.
2. Where applicable, storage conditions must also meet those outlined in the SDS and where relevant, any permit/licence requirements.
3. Chemical storage location must meet the following requirements:
* [Segregation of incompatible chemicals](https://staff.flinders.edu.au/content/dam/staff/documents/whs/dangerous-goods-storage.pdf) must be observed to prevent uncontrolled chemical reactions.
* Chemicals must be stored in closed, appropriately labelled containers.
* Food or drink must not be stored in the area.
* The location must not jeopardise the safety of any other areas in the building and must not impede access or egress or fire-fighting operations.
* The storage area must be adequately ventilated to ensure there is no build-up of vapours.
* The storage area must be kept locked and access restricted to authorised personnel.
* There must be adequate spill provisions available.
* Chemicals must be stored in a labelled cupboard or on labelled shelf and not on the floor unless appropriately bunded.
1. Where specialised storage facilities such as chemical cabinets are required, these must be constructed and labelled for the chemical class as per Australian Standard 2243.2.2021
2. Time and temperature sensitive chemicals must be stored in a manner to ensure they remain stable and procedures must be in place to regularly confirm their stability.
3. All out-of-date hazardous chemicals must be disposed of regularly to reduce the overall risk potential.
4. Flammable or combustible chemicals must be stored away from ignition sources.
5. Where areas have hazardous chemicals above quantities as specified in [WHS Regulations Schedule 11](https://www.legislation.sa.gov.au/legislation), the areas must display and maintain the relevant placards.
6. Bulk chemicals must be stored securely and must be supported and bunded to prevent any damage to containers or release to the environment.
7. Dangerous substances prohibited and restricted carcinogens, controlled substances (schedule poisons), cytotoxic drugs and those classified as chemicals of security concern must be stored to manage any potential risks, be in a secure and lockable location and maintain registers of use.
8. Gas cylinders must be segregated and stored securely as per [Hazardous Chemicals Manual*.*](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety)

# 22. Permits and Licences

**22.1 Dangerous Substances License**

1. The University is required to maintain a licence to keep dangerous substances. This includes the **Class 3, (flammables) 6 (Toxic) and 8 (corrosive**). These materials must be stored only in quantities and conditions specified on the permit.
2. Quantities should be kept to the minimum required.
3. Local areas must notify the WHS Unit if there are significant changes to the storage location or quantities of these classes of substances.

**22.2 Prohibited and Restricted Carcinogens**

1. The University must not purchase, store, handle or use prohibited or restricted carcinogens (as [listed by SafeWork SA](https://www.safework.sa.gov.au/licence-and-registration/apply-renew/carcinogens-authorisation)) unless prior authorisation has been granted from the Regulator.
2. Every worker or research higher degree student wishing to use a prohibited or restricted carcinogen must complete a [Prohibited or Restricted Carcinogen Worker Registration Form](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/carcinogenic-substances-scheduled) , obtain relevant approvals and forward the completed documentation to the WHS Unit who will submit the application to SafeWork SA on the Universities behalf.
3. When prohibited or restricted carcinogens have been approved for use, it must only be used for the purposes of genuine research or analysis, in the location and by the individuals as outlined in the information supplied with the application submitted to SafeWork SA.
4. See the [Hazardous Chemicals Manual](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety) for the information required when applying for the permits.
5. Some restricted carcinogens are also cytotoxic and there are further requirements for their [management, use and handling](https://www.sahealth.sa.gov.au/wps/wcm/connect/f8aa68004b3f6cf6a340afe79043faf0/Safe%2BHandling%2BCytotoxic%2BGuidelines.pdf?MOD=AJPERES&amp;CACHEID=ROOTWORKSPACE-f8aa68004b3f6cf6a340afe79043faf0-nKM1oGx).
6. When the approved user of a prohibited or restricted carcinogen leaves the University their manager/ supervisor must notify the WHS unit so a *statement of exposure* can be provided to the person.
7. Prior to the approved user leaving the University they must organise the disposal of the chemical by a registered waste contractor as the permit is not transferable.

g. Records of use and disposal must be kept as per the [record keeping requirements](https://staff.flinders.edu.au/content/dam/staff/documents/whs/whs-records-management.pdf).

**22.4 Controlled Substances - Scheduled Drugs & Poisons**

***Permit for research, instruction or training permit to possess.***

1. **Schedule 2, 3, 4, and 7** substances require special permits issued by SA Health.
2. The University has a number of site permits issued to the Vice-President [Corporate Services] and held by the WHS Unit. For staff who manufacture, produce, possess, use, or store these **Schedule 2, 3, 4, and 7** chemicals it must be only for research, instruction or training and under the conditions of the permit.
3. Staff using the chemicals covered by these permits must;
* complete a risk assessment and safe work procedure that is authorised by the manager/ supervisor of the work.
* comply with all conditions specified on the permit, including security and record keeping requirements of use and disposal.
* comply with SA Health *S*[*uspected Theft or Loss of Drugs or Substances from Licence or Permit Holders.*](https://www.sahealth.sa.gov.au/wps/wcm/connect/Public%20Content/SA%20Health%20Internet/Clinical%20Resources/Clinical%20Programs%20and%20Practice%20Guidelines/Medicines%20and%20drugs/Legal%20control%20over%20medicines/Theft%20and%20loss%20of%20medications%20from%20health%20facilities%20and%20licence%20or%20permit%20holders)

d. To breach the conditions of the University’s licence is an unlawful act, which would result in a loss of licence and the entire University’s ability to purchase and hold these types of substances.

### 22.5 Regulation 25 Chemicals

Regulation 25 chemicals are also controlled under the above SA Health permit - **Research*, instruction or training permit to possess***

These [Regulation 25 Chemicals](https://www.sahealth.sa.gov.au/wps/wcm/connect/34e66b804064e13ea73db7a05d853418/2223%2B-%2BInfo%2B-%2BReg25-Poisons.pdf?MOD=AJPERES&amp;CACHEID=ROOTWORKSPACE-34e66b804064e13ea73db7a05d853418-o7d1VAV) have additional requirements including:

1. They must be recorded in Chemwatch and a local laboratory register is to be maintained that must show accurately the volumes held in the area. These volumes must be reviewed annually.
2. They must have a Risk Assessment and Safe Work Procedure.
3. Each year users will be required to confirm with the WHS Unit the location and the amount of each Regulation 25 chemical. This is then notified to the Department of Health to allow the renewal of the University permit.

**22.6 Individual permits for Schedule 8 and 9 controlled substances**

1. Any staff member requiring Schedule 8 and 9 controlled substances for research purposes must [apply for an individual permit from SA Health](https://www.sahealth.sa.gov.au/wps/wcm/connect/public%2Bcontent/sa%2Bhealth%2Binternet/public%2Bhealth/drugs%2Bpoisons%2Bchemicals%2Band%2Bcontaminants/medicines%2Bpoisons%2Band%2Bpest%2Bcontrol%2Blicences/poisons%2Bregulations%2B-%2Binformation%2Bsheets%2Band%2Bapplication%2Bforms). This permit allows the holder to purchase specified substance(s) only. Other persons wishing to have access to these materials when working or studying on the same research project must be individually listed on the permit before access to the substance(s) can be granted.
2. All conditions on the permit must be adhered to.
3. A copy of the permit and any variation must be provided to the WHS Unit.
4. A permit issued to a person is not transferrable. Where a staff member or a research higher degree student leaves, that substance must either be appropriately disposed of and that must be recorded, or a new permit must be applied for by the new owner of that substance.
5. Permit holders must renew their permits annually.

# 23. Chemicals of Security Concern

1. Where areas have any of the chemicals identified by the Australian Government as chemicals of security concern, they should where reasonably practicable to do so, address the security and other requirements contained in the [National Code of Practice for Chemicals of Security Concern](https://www.nationalsecurity.gov.au/protect-your-business/chemical-security/national-code-of-practice)

# 24. Explosives (not including SSAN)

1. The University has a site license for the storage of explosives. In addition, individual staff who wish to use explosives must also apply for a personal permit via [SafeWork SA.](https://www.safework.sa.gov.au/licence-and-registration/apply-renew/explosives-licences) These must be renewed annually.
2. All projects using explosives must be approved by the relevant College Vice-President and Executive Dean.
3. Detailed Risk Assessments and Safe Work Procedures must be completed and all identified controls implemented.
4. Strict restrictions apply to explosive issued under the permit in relation to purchasing, quantities, use, storage, security and record keeping. Storage must be in an approved cabinet, restricted access and with appropriate signage. [See SafeWork SA](https://www.safework.sa.gov.au/licence-and-registration/apply-renew/explosives-licences) for further details.
5. Any staff member who is intending to use explosives for research or educational purposes must contact the WHS Unit, prior to purchasing to make sure they are covered by relevant licensing.

# 25. Security Sensitive Ammonium Nitrate

1. The University currently holds a gazetted exempt from the requirements of the *Explosives (Security Sensitive Substances) Regulations.* This issubject to the University complying with the following conditions;
2. all purchases, use and disposal of security sensitive ammonium nitrate must be recorded in an auditable format and kept for a period of at least five years.
3. all records will be made available to a gazetted Inspector of Explosives on request within 14 days.
4. all quantities of [security sensitive ammonium nitrate](https://www.safework.sa.gov.au/licence-and-registration/apply-renew/ammonium-nitrate-licences) must be kept in a secure manner (stored in a suitable container, appropriately labelled as SSAN, in a locked receptacle such as a cabinet) and be accessible only by the registered person/s.
5. used only for specified research or educational purposes.
6. no more than **3kg** of security sensitive ammonium nitrate is to be kept in any laboratory or other area of use at any time.
7. any loss or theft of security sensitive ammonium nitrate is classified as an incident and must be reported immediately to the WHS Unit who will inform SafeWork SA and South Australia Police (SAPOL).
8. All processes of storage, handling, us and disposal must be documented in a Risk Assessment and approved by the area manager/ supervisor.

# 26. Export and import of chemicals

1. Areas which directly import or export chemicals must check with the [Australian Industrial Chemicals Introduction Scheme (AICIS)](https://www.industrialchemicals.gov.au/) to determine if they are required to obtain a permit.
2. All imported chemicals must have labels in accordance with GHS labelling requirements as per SA *Work Health and Safety Regulations 2012*.

# 27. Manufacturing of Research Chemicals

* 1. If staff or higher degree students in the University manufacture or directly import chemicals, they have a duty to prepare an SDS, even if the chemical is only for research, sample analysis or becomes a waste product.
1. Where it is not feasible to comply with the WHS Regulations in terms of SDS requirements, then an SDS must be prepared and meet, as a minimum, the following;
* be written in English
* have an Australian business name and contact details
* state full identification and hazard information if available - where it is not available, a precautionary approach should be taken.
* state chemical identity, structure or composition as far as is reasonably practical
* state any known and suspected hazards
* state precautions that must be taken in using, handling or storing the chemical, to the extent that such precautions have been identified.

# 28. Waste Management

* 1. The correct method of disposal of any chemical waste generated must be in consultation with the SDS and included in the risk assessment and the relevant safe work procedure (SWP).
	2. All waste containers must be suitable for the chemical waste type and must be appropriately labelled, including all relevant hazard warning and pictograms.
	3. Chemical waste must be appropriately stored and segregated to ensure any risks to health or safety are managed.
	4. Chemical waste must be removed by an operator licensed by the relevant authority (Environmental Protection Agency [EPA]).
	5. The University must supply the licensed operator with a waste manifest. The operator will complete a Waste Transport Certificate unless an alternative has been organised via the [EPA](https://www.epa.sa.gov.au/business_and_industry/tracking_and_transporting_waste/fact_sheets/waste_tracking_for_waste_producers) (e.g. online tracker).
	6. Waste manifests must be kept by the area that organise the waste collection as per [WHS record keeping requirements.](https://staff.flinders.edu.au/content/dam/staff/documents/whs/whs-records-management.pdf)

# 29. Record Keeping

1. The following records must be maintained and kept up to-date for work with hazardous chemicals by the laboratory/studio/workshop/area using the chemicals;
* Hazardous Chemicals Register (using ChemWatch) and associated SDSs
* Risk assessments
* Safe Work Procedures
* Specialised emergency procedures (e.g. spill kit use or cyanide first aid)
* Training records
* Registers as required under permits for Controlled Substances, SSAN and explosives materials. (these must document purchase, use and disposal).
* Maintenance records of any controls that are the responsibility of the lab/ workshop/ studio.
1. The following records must be kept by the area that schedules inspections, testing or maintenance work e.g. Property Facilities and Development (PFD) for;
* Fume hoods
* Local ventilation & Biosafety Cabinets
* Monitoring / gas sensors.
* Annual Safety showers and eye wash testing
* Any other infrastructure used to control the risks of hazardous chemicals.
1. The WHS Unit must keep records for the following relating to hazardous chemicals;
* Register of any permits/ licenses issued to the University or its workers.
* Health monitoring records (where monitoring is required)
* Notifiable and other reported incidents.

All of the above records must be made available to auditors or the regulators upon request and kept as per the [WHS Record keeping requirements.](https://staff.flinders.edu.au/content/dam/staff/documents/whs/whs-records-management.pdf)

# 30. Responsibilities

|  |  |
| --- | --- |
| Vice-President (Corporate Services) | Ensure that:a. As the holder of University permits/ licenses relating to hazardous chemicals, that processes are in place to meet regulatory compliance. |
| Vice-Presidents and Executive Deans of College, and Portfolio Heads  | Ensure that; a. These procedures are implemented in their College/Portfolio; and b. There are adequate resources for effective hazardous chemicals management in their College/Portfolio. |
| Managers /Senior Staff | Ensure that;1. Hazards associated with chemical use in their areas of responsibility are identified, risk assessed and that risk control measures are implemented, documented, monitored, regularly reviewed and maintained.
2. Consult workers and where practicable their elected Health and Safety Representatives (as relevant) throughout the risk management process.

 c. Approve the completed risk assessment for their area of responsibility. d. Appropriate training, instruction and supervision is provided for the safe use of chemicals.e. Hazardous Chemicals Register is available (ChemWatch) and up to date for their area and access to SDSs is available for all the required chemicals that are used in their area of responsibility.f. Their area complies with the purchasing, monitoring, security, disposal and record keeping to meet legislative requirements and these University procedures.g. That they are aware of emergency protocols and practices.h. That any accident/ incidents and hazards involving hazardous chemicals are reported into FlinSafei. Report any security or safety issues to senior managers.  |
| Demonstrators/ activity supervisors/ Lab mentors | Ensure that:a. Chemicals are being used in a safe manner and as per the Risk Assessment & Safe Work Procedure. b. Adequate instruction and supervision is provided.c. That they are aware and follow all emergency protocols and required emergency responses.d. All accident/ incidents and hazards are reported into FlinSafe.e. Report any security or safety issues to supervisors.  |
| Work Health and Safety Unit | Ensure thata. Permits for prohibited and restricted carcinogens are completed and submitted to SafeWork SA (or relevant regulator in each jurisdiction).b. Investigate all notifiable and reported incidents and maintained investigation reports/ records and any notification to Regulators as required and ensure these are reported to Managers via the WHS FlinSafe reporting system.c. Maintain a register of issued permits/ licenses to the University for Hazardous Chemicals.d. Maintain records of any health monitoring (where relevant) that have been organised by the WHS Unit to meet regulatory requirements. |
| Workers/ Staff/ Students and others in the workplace | 1. Comply with these procedures and follow all instructions and directions relating to the acquisition, use, handling, storage and disposal of hazardous chemicals.
2. Undertake all training as specified by the University or Supervisor.
3. Follow all emergency protocols and required emergency responses.
4. Report immediately any incident involving hazardous chemicals to their manager/supervisor and report any such incident in FlinSafe within 24 hours.

e. Report any inappropriate use of hazardous chemicals to their line manager, supervisor, Health & Safety Representative and/or the WHS Unit. |

# 31.Related Procedures and Links

[Work Health and Safety Policy](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/work-health-safety-policy.pdf)

[Work Health and Safety Management System](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/work-health-safety-management-system.pdf)

[Hazardous Chemicals Manual](https://staff.flinders.edu.au/workplace-support/whs/information-documents/topic/hazardous-chemicals-safety)

[First Aid Procedure](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/first-aid-procedures.pdf)s

[Emergency Management Procedure](https://www.flinders.edu.au/content/dam/documents/staff/policies/health-safety/emergency-management-procedures.pdf)s

# 32. Legislative framework

**South Australia**

* [*Work Health and Safety Act 2012*](http://www.legislation.sa.gov.au/LZ/C/A/Work%20Health%20and%20Safety%20Act%202012.aspx)
* [*Work Health and Safety Regulations 2012*](http://www.legislation.sa.gov.au/LZ/C/R/Work%20Health%20and%20Safety%20Regulations%202012.aspx)
* [*Controlled Substances Act 1984*](http://www.legislation.sa.gov.au/lz/c/a/controlled%20substances%20act%201984.aspx)
* *[Controlled Substances (Controlled Drugs, Precursors and Plants) Regulations 2014](https://www.legislation.sa.gov.au/lz?path=%2FC%2FR%2FCONTROLLED%20SUBSTANCES%20(CONTROLLED%20DRUGS%20PRECURSORS%20AND%20PLANTS)%20REGULATIONS%202014)*
* [*Controlled Substances (Poisons) Regulations 2011*](http://www.legislation.sa.gov.au/LZ/C/R/Controlled%20Substances%20%28Poisons%29%20Regulations%202011.aspx)
* [*Explosives Act 1936*](http://www.legislation.sa.gov.au/lz/c/a/explosives%20act%201936.aspx)
* *[Explosives (Security Sensitive Substances) Regulations 2021](https://www.legislation.sa.gov.au/lz?path=/c/r/explosives%20(security%20sensitive%20substances)%20regulations%202021" \o "Explosives security sensitive substances regs 2006)*
* Code of Practice - [*How to manage work health and safety risks*](https://www.safework.sa.gov.au/__data/assets/pdf_file/0007/136267/How-to-manage-work-health-and-safety-risks.pdf)
* [Code of Practice: *Managing risks of hazardous chemicals in the workplace*](https://www.safeworkaustralia.gov.au/system/files/documents/1702/managing_risks_of_hazardous_chemicals2.pdf)
* [Code of Practice*: Labelling of workplace hazardous chemicals*](http://www.safeworkaustralia.gov.au/sites/swa/about/publications/pages/labelling-hazardous-chemicals-cop)
* *[National Code of Practice for Chemicals of Security Concern](https://www.nationalsecurity.gov.au/protect-your-business/chemical-security/national-code-of-practice%22%20%5Co%20%22National%20code%20of%20practice%20for%20chemicals%20of%20security%20concern)*
* [*Cytotoxic Drugs and related waste 2015*](https://www.sahealth.sa.gov.au/wps/wcm/connect/f8aa68004b3f6cf6a340afe79043faf0/Safe%2BHandling%2BCytotoxic%2BGuidelines.pdf?MOD=AJPERES&amp;CACHEID=ROOTWORKSPACE-f8aa68004b3f6cf6a340afe79043faf0-nKM1oGx)
* *For Australian Standards Users must refer to* [*SAI Global*](https://www.saiglobal.com/online/autologin.asp) *for the latest version.*

***A listing of relevant Australian Standards can be found in the Hazardous Chemicals Manual.***

**Note- Equivalent legislation applies in each State and Territory.**

# 33. APPENDIX A – CHEMICAL SPILL EMERGENCY RESPONSE

**Chemical Spill or Release**

· Alert everyone in the immediate area of the emergency situation

·  Notify laboratory/manager/ Supervisor

Assess the extent of the chemical spill

Is it safe to contain & clean up?

If possible refer to SDS

**NO**

YES

Notify Security (ext 12880) of location and extent of spill.

- Provide First Aid

Call Emergency Services

000

Evacuate the area

Once the situation is under control then this must be reported as a notifiable incident to the WHS Unit & in Flinsafe

Locate Spill Kit put on PPE then

Contain

&

Decontaminate

&

Dispose

Report into FlinSafe

Notify WHS Unit

Ext 13024

1. *Dangerous substances are regulated by Work Health and Safety Regulations, except for dangerous goods transport activities and gas fitting work are regulated by dangerous goods legislation.* [↑](#footnote-ref-2)