


HS625	
Generic Controls for the Storage of Dangerous Goods	

Category	Specific Requirements
Ventilation	<ul style="list-style-type: none"> <li>• Adequate ventilation shall be provided for package storage and handling areas.</li> <li>• Adequate ventilation depends on the nature of the substance and the circumstances of its use.</li> </ul>
First Aid	<ul style="list-style-type: none"> <li>• The occupier shall provide an adequate first aid kit and appropriate personal protection equipment. Reference should be made to the safety data sheet (SDS) for the substance being kept.</li> </ul>
Security & Access	<ul style="list-style-type: none"> <li>• Each laboratory must be secured against unauthorised access.</li> <li>• The means of entry into and exit from the areas, rooms or buildings where dangerous goods are kept or handled shall be kept clear at all times.</li> <li>• At all times, access shall also be available to— <ul style="list-style-type: none"> <li>↳ fire fighting equipment;</li> <li>↳ personal protective equipment;</li> <li>↳ clean-up materials and equipment; and</li> <li>↳ the place where the dangerous goods manifest is kept.</li> </ul> </li> </ul>
Communications	<ul style="list-style-type: none"> <li>• Each laboratory must have a phone and contact details for emergency response.</li> </ul>
Lighting	<ul style="list-style-type: none"> <li>• There must be adequate lighting in any area where dangerous goods are stored or handled.</li> </ul>
Emergency Requirements	<ul style="list-style-type: none"> <li>• An adequate supply of water for emergency use shall be available at a nearby location.</li> <li>• A fire extinguisher of suitable type shall be installed in each minor store. It shall be located so that it is immediately accessible in an emergency, along an exit route.</li> <li>• Dangerous goods can present the following hazards in a fire: <ul style="list-style-type: none"> <li>↳ They may give off vapours, fumes or smoke, which may be flammable, toxic or corrosive, or may form flammable mixtures in the air.</li> <li>↳ Flammable or oxidising dangerous goods may intensify or spread the fire.</li> <li>↳ Spilled substances and contaminated debris may be toxic to the environment.</li> <li>↳ Containers may rupture violently, or become projectiles, when heated.</li> <li>↳ Some substances may react violently with water or other chemicals, causing the substances to be sprayed over a wide area.</li> <li>↳ The mixing of spilt or fire-affected substances may have unknown properties and consequences.</li> <li>↳ Contaminated water run-off from fires may present a hazard to persons and the environment.</li> </ul> </li> </ul>
Containers & Decanting	<ul style="list-style-type: none"> <li>• The contents of a container shall <u>not</u> be transferred to any other container for storage <u>unless</u> the latter is suitable for the storage of this</li> </ul>

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	<p>particular dangerous good, and is clearly marked with the appropriate hazard diamond to indicate the identity and hazard potential of that substance.</p> <ul style="list-style-type: none"> <li>• Containers shall: <ul style="list-style-type: none"> <li>↳ <i>be kept on non-combustible surfaces which are not liable to attack or damage by the contents if spilt;</i></li> <li>↳ <i>be kept at least 3 m away from sources of heat;</i></li> <li>↳ <i>be opened only in appropriately ventilated areas;</i></li> <li>↳ <i>be kept securely closed when not in use; and</i></li> <li>↳ <i><u>not</u> be kept next to reactive material.</i></li> </ul> </li> <li>• Containers shall be kept closed when not in use. Containers should only be opened in a well-ventilated area, and, if their contents are flammable, away from any potential ignition sources.</li> <li>• Appropriate spillage-retention measures shall be provided where containers are opened for the transfer of their contents.</li> <li>• <i>The transfer of dangerous goods from the store to the point of use shall be carried out in a manner that minimises the possibility of spillage.</i></li> <li>• <i>Suitable containers may be available from the chemistry store or upper campus store.</i></li> </ul>
Storage & Segregation	<ul style="list-style-type: none"> <li>• <i>Any materials that are incompatible, or might react dangerously if mixed, shall be segregated so that the possibility of reaction is minimised.</i></li> </ul>
Spills	<ul style="list-style-type: none"> <li>• <i>All spills and leaks from containers shall be attended to promptly. Spilled or leaked material shall <u>not</u> be returned to its original container.</i></li> <li>• <i>Every endeavour shall be made to prevent leaks or spills, and to control them if they do occur; clean-up action shall be initiated immediately. Leaked or spilled materials shall be kept segregated from other waste and disposed properly.</i></li> <li>• <b>NOTE:</b> Entry into the affected area should always be under supervision. For dealing with spills, the following are essential: <ul style="list-style-type: none"> <li>↳ Clean-up materials and equipment</li> <li>↳ An adequate supply of water (if the dangerous goods are compatible with water).</li> <li>↳ Appropriate personal protective clothing equipment shall be used.</li> </ul> </li> </ul>
All Dangerous Goods Cabinets	<ul style="list-style-type: none"> <li>• Cabinets shall be located not less than 3 m from any source of heat that could affect the cabinet or its contents.</li> <li>• Where cabinets are installed in a building — <ul style="list-style-type: none"> <li>↳ irrespective of the occupancy of the building, not more than one cabinet shall be installed in each 100 m<sup>2</sup> of building area, and the separation distance between any two cabinets shall be not less than 3 m;</li> <li>↳ the cabinets shall be so located in relation to exits and stairways that they will not impede the escape of persons in the event of fire; and</li> <li>↳ cabinets shall be located near a provision for the washing of hands.</li> </ul> </li> <li>• Cabinets kept out-of-doors shall be protected from the weather.</li> <li>• Dangerous goods requiring special storage conditions (e.g. temperature control) shall not be kept in a minor store.</li> <li>• When calculating the floor area, use only the area of the current floor of a multiple floor building.</li> </ul>
Personal Protective Equipment	<p><i>The head of the work unit where dangerous goods are stored:</i></p> <ul style="list-style-type: none"> <li>• must ensure that all persons on the premises are provided with appropriate personal protective equipment;</li> </ul>

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	<ul style="list-style-type: none"><li>• keep personal protective equipment in designated, well-identified locations and ready for use; and</li><li>• maintain, in a fit state of repair, all personal protective equipment.</li></ul>

*Reference AS 3833:98 "The Storage and handling of mixed classes of dangerous goods....."*