

## Dangerous Goods Storage

ITEM	AUDIT CRITERIA	REFERENCE	DOCUMENTS	COMPLIANCE
1.	<b>RISK ASSESSMENT</b>			
1.1	Is there a list of all the Dangerous Goods in the area which includes:	Code of Practice	Dangerous Goods Register / MSDSs	
1.1.1	➤ A summary of the hazards identified in the MSDS for each of the Dangerous Goods	Code of Practice		
1.1.2	➤ The name of each of the Dangerous Goods	Code of Practice		
1.1.3	➤ The class, subsidiary risk and packing group of each of the Dangerous Goods	Code of Practice		
1.2	Have MSDSs been obtained for each of the Dangerous Goods within the storage	Code of Practice	Dangerous Goods Register / MSDSs	
1.3	Have the MSDSs for each of the Dangerous Goods kept in the minor storage been reviewed and the risk documented for each of the following broad types of associated risk	Code of Practice	Dangerous Goods Register / MSDSs	
1.3.1	➤ Fire and explosion risks associated with the storage and handling of flammable gases (Class 2.1 or Subsidiary Risk 2.1), flammable liquids (Class 3 or Subsidiary Risk 3), Dangerous Goods of Class 4.1, 4.2 and 4.3 or Subsidiary Risk 4.1, 4.2 and 4.3, and combustible liquids			
1.3.2	➤ Fire risks that may result from the storage and handling of oxidizing agents of Class 5.1 or Subsidiary Risk 5.1 or organic peroxides of Class 5.2			
1.3.3	➤ The toxic risks associated with Dangerous Goods of Class 8 or Subsidiary Risk 8			
1.3.4	Is the quantity of Dangerous Goods kept at any one time kept to a minimum consistent with the operation of the premises	Code of Practice		
1.3.5	Where the label of a MSDS for a Dangerous Goods specifies measures and/or equipment to be used for the storage and handling of the Dangerous Goods, are those measures adopted	Code of Practice	Container labels MSDSs	

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2.	<b>STORAGE AND HANDLING</b>			
2.1	Are packages kept securely closed when not in use	Code of Practice		
2.2	Are packages stored in a way that minimizes the risk of them falling or being dislodged	Code of Practice		
2.3	Are packages stored so that leakage cannot adversely affect other Dangerous Goods in the storage area	Code of Practice		
2.4	Where Dangerous Goods require special storage conditions to ensure their stability, are regular checks made to ensure that these special conditions are maintained	Code of Practice	Internal procedure	
2.5	Where aerosols are stored together in outer packaging, is the storage area enclosed in a strong mesh enclosure to reduce the risk from projectiles in the event of a fire involving the aerosols	Code of Practice		
3.	<b>TRANSFER OF DANGEROUS GOODS</b>			
3.1	In the case of Dangerous Goods being transferred (by pumping, decanting, dispensing and filling):	Code of Practice	Internal procedure	
3.1.1	<ul style="list-style-type: none"> <li>➤ Is spill containment provided which is able to hold at least the quantity of the largest container</li> </ul>			
3.1.2	<ul style="list-style-type: none"> <li>➤ Is the container being filled earthed if there is a likelihood of static electricity being generated and risk from ignition of flammable vapours during the transfer</li> </ul>			
3.1.3	<ul style="list-style-type: none"> <li>➤ Is the transfer done in a manner that reduces the generation of any vapours and avoids splashing or spillage of the Dangerous Goods</li> </ul>			
3.1.4	<ul style="list-style-type: none"> <li>➤ Is the place where the transfer is carried out: <ul style="list-style-type: none"> <li>- Set aside for than purpose</li> <li>- Not within the storage area but adjacent to it</li> <li>- Free of ignition sources</li> <li>- Free of obstructions with sufficient room to enable the transfer to be carried out and to hold containers and associated equipment</li> </ul> </li> </ul>			
3.1.5	<ul style="list-style-type: none"> <li>➤ Are any decontamination materials or clean-up equipment kept close by</li> </ul>			

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3.1.6	➤ Where Dangerous Goods are to be transferred into containers, are the containers suitable and unable to be damaged by the Dangerous Goods			
<b>4.</b>	<b>SEGREGATION</b>			
4.1	Are Dangerous Goods that are incompatible segregated to prevent them mixing	Code of Practice		
<b>5.</b>	<b>SOURCES OF HEAT OR IGNITION</b>			
5.1	Are ignition sources kept away from flammable or combustible Dangerous Goods (dangerous Goods Class or Subsidiary Risk of 2.1, 3, 4.1, 4.2, 4.3)	Code of Practice		
5.2	Are Dangerous Goods stored away from sources of heat	Code of Practice		
5.3	If Dangerous Goods being stored or handled are able to generate flammable or explosive atmospheres, is any electrical equipment being used intrinsically safe or flameproof	Code of Practice		
<b>6.</b>	<b>SPILL CONTROL AND CLEAN-UP</b>			
6.1	Is there prevention of any potential flow of Dangerous Goods to other parts of the premises that could create a risk or reach any watercourse or the property boundary	Code of Practice		
6.2	Are equipment and materials for clean up at the premises to cope with spills from the largest packages kept	Code of Practice		
6.3	Are all spills and leaks immediately cleaned up	Code of Practice		
<b>7.</b>	<b>DECOMMISSIONING</b>			
7.1	Are all containers or pieces of equipment that have been used to store or handle Dangerous Goods and which are no longer required for that purpose, cleaned free of Dangerous Goods or otherwise made safe	Code of Practice		
<b>8.</b>	<b>VENTILATION</b>			
8.1	Are areas in which Dangerous Goods stored and handled provided with adequate natural or mechanical ventilation sufficient to prevent the generation of a flammable or harmful atmosphere	Code of Practice	Ventilation reports	
<b>9.</b>	<b>LIGHTING</b>			
9.1	Is sufficient lighting provided to allow normal work to be undertaken safely	Code of Practice	Australian Standards	

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<b>10.</b>	<b>SECURITY</b>			
10.1	Are storage areas secured against unauthorised entry	Code of Practice		
<b>11.</b>	<b>PERSONAL PROTECTIVE EQUIPMENT</b>			
11.1	Is PPE appropriate to the goods being handled worn when people are handling Dangerous Goods	Code of Practice		
11.2	Is PPE periodically checked and maintained	Code of Practice		
<b>12.</b>	<b>ACCESS AND EGRESS</b>			
12.1	Are Dangerous Goods stored where they could hinder escape from the building or area in the event of a fire, spill or leak	Code of Practice		
<b>13.</b>	<b>FIRE PREVENTION AND PROTECTION</b>			
13.1	Are areas in which Dangerous Goods are stored or handled kept clear of combustible matter and refuse	Code of Practice		
13.2	Is there a supply of water available at a nearby location for emergency use	Code of Practice		
13.3	Are there portable fire extinguishers appropriate to the type and quantity of Dangerous Goods at or near the place where the Dangerous Goods are stored or handled	Code of Practice		
<b>14.</b>	<b>EMERGENCY PROCEDURES</b>			
14.1	<p>Have emergency procedures for responding to all emergencies been established, which take into account the following:</p> <ul style="list-style-type: none"> <li>- The nature and quantity of Dangerous Goods</li> <li>- The types and likelihood of emergencies</li> <li>- The fire protection and other emergency equipment supplied</li> <li>- The physical features of the site</li> <li>- Access to the premises</li> <li>- The number of people on the premises and adjoining premises</li> </ul>	Code of Practice	Internal procedure	
14.2	Are all relevant emergency contact telephone numbers displayed in a prominent location at the premises	Code of Practice	Display notice	

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15.	<b>QUANTITIES OF DANGEROUS GOODS</b>			
15.1	Do the quantities of Dangerous Goods within the storage exceed the placarding quantities of Schedule 2 of the Regulations  If yes, there will be additional requirements under the Code of Practice and specialist advice should be sought	Code of Practice	Register	

## References

Code of Practice      Code of Practice – Storage and Handling of Dangerous Goods (8 December 2000)  
Regulations          Dangerous Goods (Storage and Handling) Regulations 2000

**Occupational Health and Safety Section  
La Trobe University**

**18 December 2003**