















DANGEROUS GOODS				DANGEROUS GOODS			
Dangerous Goods Class	Storage & Segregation	Handling, Transport & Disposal	Maximum Quantities	Dangerous Goods Class	Storage & Segregation	Handling, Transport & Disposal	Maximum Quantities
<b>Flammable Gas</b>  <b>Class 2.1</b>	<ul style="list-style-type: none"> <li>Only cylinders in use</li> <li>Secure with chain or strap away from ignition sources</li> <li>Vent exhaust lines to hoods</li> <li>AS/NZS 2243.10, AS 4332 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Use cylinder trolley to move cylinder</li> <li>Disposal Method 1</li> </ul>	<ul style="list-style-type: none"> <li>Only cylinders in use:               <ul style="list-style-type: none"> <li>connected to equipment or instruments; or</li> <li>secured in external gas store and piped into the lab</li> </ul> </li> </ul>	<b>Oxidising Agent</b>  <b>Class 5.1</b>	<ul style="list-style-type: none"> <li>Do not store with Class 3 or 4</li> <li>Segregate from other classes in a sealed container in a spill tray</li> <li>AS/NZS 2243.10, AS 4326 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Avoid contact with skin</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>10 L container</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 1</li> </ul>
<b>Non-Toxic Non-Flammable Gas/ Cryogenic Liquid</b>  <b>Class 2.2</b>	<b>Non-Toxic Non-Flammable Gas</b> <ul style="list-style-type: none"> <li>Only cylinders in use</li> <li>Secured with chain or strap</li> <li>Vent exhaust lines to hoods</li> <li>AS/NZS 2243.10, AS 4332 and AS/NZS 3833</li> </ul> <b>Cryogenic Liquid</b> <ul style="list-style-type: none"> <li>Vent exhaust away from users</li> <li>Store in well-ventilated areas</li> <li>AS/NZS 2243.10, AS 1894 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Use cylinder trolley to move cylinder</li> <li>Disposal Method 1</li> </ul> <ul style="list-style-type: none"> <li>Use cylinder trolley to move cylinders over 10 L</li> <li>Carriers must be spill and break-proof</li> <li>Domestic vacuum flasks are not be used</li> <li>Disposal Method 1</li> </ul>	<ul style="list-style-type: none"> <li>Only cylinders in use:               <ul style="list-style-type: none"> <li>connected to equipment or instruments</li> </ul> </li> <li>Maximum quantity:               <ul style="list-style-type: none"> <li>250 L cylinder</li> <li>Greater if oxygen monitoring device is fixed</li> </ul> </li> </ul>	<b>Organic Peroxide</b>  <b>Class 5.2</b>	<ul style="list-style-type: none"> <li>Do not store with Class 3 or 4</li> <li>Segregate from other classes in a sealed container in a spill tray</li> <li>AS/NZS 2243.10, AS 2714 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Avoid contact with skin</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>10 L container</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 1</li> </ul>
<b>Toxic Gas</b>  <b>Class 2.3</b>	<ul style="list-style-type: none"> <li>Only cylinders in use</li> <li>Secured with chain or strap</li> <li>Vent exhaust lines to hoods</li> <li>AS/NZS 2243.10, AS 4332 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Use trolley to carry cylinder</li> <li>Disposal Method 1</li> </ul>	<ul style="list-style-type: none"> <li>Only cylinders in use:               <ul style="list-style-type: none"> <li>connected to equipment or instruments; or</li> <li>secured in external gas store and piped into the lab</li> </ul> </li> </ul>	<b>Toxic</b>  <b>Class 6.1</b>	<b>Toxic Solids</b> <ul style="list-style-type: none"> <li>Closed containers only</li> <li>Segregate from other classes in a sealed container in a spill tray</li> <li>AS/NZS 2243.10, AS/NZS 4452 and AS/NZS 3833</li> </ul> <b>Toxic Liquids</b> <ul style="list-style-type: none"> <li>Closed containers only</li> <li>Segregate from other classes in a sealed container in a spill tray</li> <li>AS/NZS 2243.10, AS/NZS 4452 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Carrier for solids greater than 2.5 kg</li> <li>Avoid contact with dust or liquid</li> <li>Disposal Method 2</li> </ul> <ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Carrier for liquids greater than 2.5 L</li> <li>Avoid contact with dust or liquid</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity for PG I (see Note 3):               <ul style="list-style-type: none"> <li>10 kg container</li> <li>10 kg per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>Maximum quantity for PG II and PG III (see Note 3):               <ul style="list-style-type: none"> <li>20 L container</li> <li>50 kg per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 2</li> </ul> <ul style="list-style-type: none"> <li>Maximum quantity for PG I (see Note 3):               <ul style="list-style-type: none"> <li>10 L container</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>Maximum quantity for PG II and PG III (see Note 3):               <ul style="list-style-type: none"> <li>20 L container</li> <li>50 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 2</li> </ul>
<b>Flammable Liquid</b>  <b>Class 3</b>	<ul style="list-style-type: none"> <li>Labelled standard lab cupboard, or small amounts throughout lab</li> <li>Do not refrigerate unless fridge is intrinsically safe (a sealed container)</li> <li>Segregate from other classes in a spill tray in a cabinet or cupboard</li> <li>AS/NZS 2243.10, AS 1940 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Carriers for 2.5 L quantities</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>5 L container; and</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> </ul>	<b>Infectious Substance</b>  <b>Class 6.2</b>	<ul style="list-style-type: none"> <li>Laboratory must be signed</li> <li>Store area must be signed</li> <li>Segregate from other classes in a sealed container</li> <li>AS/NZS 3816</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack infectious items</li> <li>Carrier for liquids (2.5 L)</li> <li>Avoid contact with dust or liquid</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum Quantity:               <ul style="list-style-type: none"> <li>5 L container for liquids</li> <li>20 kg container for solids</li> </ul> </li> </ul>
<b>Flammable Solid</b>  <b>Class 4.1</b>	<ul style="list-style-type: none"> <li>Keep away from moisture</li> <li>Store as per supplier's instructions</li> <li>Segregate from other classes in a sealed container in a spill tray</li> <li>AS/NZS 2243.10, AS/NZS 5026 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Avoid contact with skin</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>10 L container</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 1</li> </ul>	<b>Radioactive</b>  <b>Class 7</b>	<ul style="list-style-type: none"> <li>Laboratory must be signed</li> <li>Store area must be signed</li> <li>Monitoring must be conducted</li> <li>Results to be recorded</li> <li>Segregate from other materials by at least 1 m in a sealed container</li> <li>AS 2243.4</li> </ul>	<ul style="list-style-type: none"> <li>Store in appropriate container:               <ul style="list-style-type: none"> <li>lead</li> <li>perspex</li> <li>other – as stipulated</li> </ul> </li> <li>Disposal Method 4</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity:               <ul style="list-style-type: none"> <li>as per management licence</li> </ul> </li> </ul>
<b>Spontaneously Combustible</b>  <b>Class 4.2</b>	<ul style="list-style-type: none"> <li>Will ignite in contact with air or water</li> <li>Segregate from other classes in a sealed container in a spill tray</li> <li>AS/NZS 2243.10, AS/NZS 5026 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Avoid contact with skin</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>10 L container</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 1</li> </ul>	<b>Corrosive</b>  <b>Class 8</b>	<b>Acids</b> <ul style="list-style-type: none"> <li>Avoid interaction with alkalis</li> <li>Segregate organic and mineral acids</li> <li>AS/NZS 2243.10, AS 3780 and AS/NZS 3833</li> </ul> <b>Alkalis</b> <ul style="list-style-type: none"> <li>Avoid interaction with acids</li> <li>AS/NZS 2243.10, AS 3780 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Carriers for 2.5 L quantities</li> <li>Wear gloves as specified</li> <li>Disposal Method 3</li> </ul> <ul style="list-style-type: none"> <li>Carriers for 2.5 L quantities</li> <li>Wear gloves as specified</li> <li>Disposal Method 3</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>20 L container</li> <li>20 L per 50 m<sup>2</sup> of lab floor space for liquids</li> <li>50 kg per 50 m<sup>2</sup> of lab floor space for solids</li> </ul> </li> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>20 L container</li> <li>20 L per 50 m<sup>2</sup> of lab floor space for liquids</li> <li>50 kg per 50 m<sup>2</sup> of lab floor space for solids</li> </ul> </li> </ul>
<b>Dangerous When Wet</b>  <b>Class 4.3</b>	<ul style="list-style-type: none"> <li>Store under oil or inert gas</li> <li>Keep away from moisture</li> <li>Segregate from all other classes by at least 1 m, in a sealed container</li> <li>AS/NZS 2243.10, AS/NZS 5026 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>Double-pack glass containers</li> <li>Avoid contact with skin</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity (see Note 3):               <ul style="list-style-type: none"> <li>10 L container</li> <li>10 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>See also Note 1</li> </ul>	<b>Miscellaneous</b>  <b>Class 9</b>	<ul style="list-style-type: none"> <li>Avoid interaction with incompatible chemicals</li> <li>AS/NZS 2243.10, AS/NZS 4681 and AS/NZS 3833</li> </ul>	<ul style="list-style-type: none"> <li>As per specifications on product</li> <li>Avoid contact with skin</li> <li>Disposal Method 2</li> </ul>	<ul style="list-style-type: none"> <li>Maximum quantity for liquids (see Note 3):               <ul style="list-style-type: none"> <li>5 L container</li> <li>50 L per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> <li>Maximum quantity for solids (see Note 3):               <ul style="list-style-type: none"> <li>20 kg container</li> <li>100 kg per 50 m<sup>2</sup> of lab floor space</li> </ul> </li> </ul>

**The maximum aggregate quantity of mixed dangerous goods in a laboratory is 200 kg or 200 L.**

**The capacity of any chemical storage cabinet used in a laboratory to store chemicals of Classes 4.1, 4.2, 4.3, 5.1 or 5.2 shall not exceed 50 L. For all other chemicals, the capacity shall not exceed 250 L.**

**Note 1:** For Classes 4 and 5 there may be up to 10 kg or L of any single class, but the aggregate of all these classes is not to exceed 20 kg or L for each 50 m<sup>2</sup> of lab floor space.

**Note 2:** Dangerous goods are assigned a **packaging group (PG)** according to the level of hazard associated with the substance. PG I is the highest risk, PG II is a medium risk and PG III is of least risk. The PG must be included on the MSDS/SDS if the chemical is a dangerous good.

**Note 3:** Where the flammable liquid is stored other than a chemical storage cabinet (eg on the bench).

HAZARDOUS SUBSTANCES	
Harmful/Toxic	Disposal Method 1
Corrosive	Disposal Method 1
Irritant/Sensitiser	Disposal Method 1
Carcinogenic	Disposal Method 4
Mutagenic/Teratogenic	Disposal Method 4

AS/NZS 2243.10 assigns a package size limit of 5 L for liquids and 20 L for solids.

DRUGS, POISONS & CONTROLLED SUBSTANCES – STORAGE	
Poisons Schedule 2 and 3	Disposal Method 2
• Keep out of reach of children	
Poisons Schedule 4	Disposal Method 4
• Store under lock and key at all times	
Poisons Schedule 5 and 6	Disposal Method 2
• No specific storage requirements	
Poisons Schedule 7,8 and 9	Disposal Method 4
• Drug of addiction cabinet and book	

#### DISPOSAL METHODS

##### Disposal Method 1

- Return to supplier

##### Disposal Method 2

- Use University-preferred waste disposal contractor

##### Disposal method 3

- Neutralise and let stand overnight
- Check pH – if between 6 and 10, pour down sink, else repeat

##### Disposal Method 4

Contact your local Health and Safety Business Partner or [hazardouswaste-info@unimelb.edu.au](mailto:hazardouswaste-info@unimelb.edu.au)