















DANGEROUS GOODS				DANGEROUS GOODS			
Dangerous Goods Class	Storage & Segregation	Handling, Transport & Disposal	Maximum Quantities	Dangerous Goods Class	Storage & Segregation	Handling, Transport & Disposal	Maximum Quantities
 Class 2.1	<ul style="list-style-type: none"> Only cylinders in use Secure with chain or strap away from ignition sources Vent exhaust lines to hoods AS/NZS 2243.10, AS 4332 and AS/NZS 3833 	<ul style="list-style-type: none"> Use cylinder trolley to move cylinder Disposal Method 1 	<ul style="list-style-type: none"> Only cylinders in use: <ul style="list-style-type: none"> connected to equipment or instruments; or secured in external gas store and piped into the lab 	 Class 5.1	<ul style="list-style-type: none"> Do not store with Class 3 or 4 Segregate from other classes in a sealed container in a spill tray AS/NZS 2243.10, AS 4326 and AS/NZS 3833 	<ul style="list-style-type: none"> Double-pack glass containers Avoid contact with skin Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 10 L container 10 L per 50 m² of lab floor space See also Note 1
 Class 2.2	<p>Non-Toxic Non-Flammable Gas</p> <ul style="list-style-type: none"> Only cylinders in use Secured with chain or strap Vent exhaust lines to hoods AS/NZS 2243.10, AS 4332 and AS/NZS 3833 <p>Cryogenic Liquid</p> <ul style="list-style-type: none"> Vent exhaust away from users Store in well-ventilated areas AS/NZS 2243.10, AS 1894 and AS/NZS 3833 	<ul style="list-style-type: none"> Use cylinder trolley to move cylinder Disposal Method 1 	<ul style="list-style-type: none"> Only cylinders in use: <ul style="list-style-type: none"> connected to equipment or instruments 	 Class 5.2	<ul style="list-style-type: none"> Do not store with Class 3 or 4 Segregate from other classes in a sealed container in a spill tray AS/NZS 2243.10, AS 2714 and AS/NZS 3833 	<ul style="list-style-type: none"> Double-pack glass containers Avoid contact with skin Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 10 L container 10 L per 50 m² of lab floor space See also Note 1
 Class 2.3	<ul style="list-style-type: none"> Only cylinders in use Secured with chain or strap Vent exhaust lines to hoods AS/NZS 2243.10, AS 4332 and AS/NZS 3833 	<ul style="list-style-type: none"> Use trolley to carry cylinder Disposal Method 1 	<ul style="list-style-type: none"> Only cylinders in use: <ul style="list-style-type: none"> connected to equipment or instruments; or secured in external gas store and piped into the lab 	 Class 6.1	<p>Toxic Solids</p> <ul style="list-style-type: none"> Closed containers only Segregate from other classes in a sealed container in a spill tray AS/NZS 2243.10, AS/NZS 4452 and AS/NZS 3833 <p>Toxic Liquids</p> <ul style="list-style-type: none"> Closed containers only Segregate from other classes in a sealed container in a spill tray AS/NZS 2243.10, AS/NZS 4452 and AS/NZS 3833 	<ul style="list-style-type: none"> Double-pack glass containers Carrier for solids greater than 2.5 kg Avoid contact with dust or liquid Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity for PG I (see Note 3): <ul style="list-style-type: none"> 10 kg container 10 kg per 50 m² of lab floor space Maximum quantity for PG II and PG III (see Note 3): <ul style="list-style-type: none"> 20 kg container 50 kg per 50 m² of lab floor space See also Note 2
 Class 3	<ul style="list-style-type: none"> Labelled standard lab cupboard, or small amounts throughout lab Do not refrigerate unless fridge is intrinsically safe (a sealed container) Segregate from other classes in a spill tray in a cabinet or cupboard AS/NZS 2243.10, AS 1940 and AS/NZS 3833 	<ul style="list-style-type: none"> Carriers for 2.5 L quantities Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 5 L container; and 10 L per 50 m² of lab floor space 	 Class 6.2	<ul style="list-style-type: none"> Laboratory must be signed Store area must be signed Segregate from other classes in a sealed container AS/NZS 3816 	<ul style="list-style-type: none"> Double-pack infectious items Carrier for liquids greater than 2.5 L Avoid contact with dust or liquid Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity: <ul style="list-style-type: none"> 5 L container for liquids 20 kg container for solids
 Class 4.1	<ul style="list-style-type: none"> Keep away from moisture Store as per supplier's instructions Segregate from other classes in a sealed container in a spill tray AS/NZS 2243.10, AS/NZS 5026 and AS/NZS 3833 	<ul style="list-style-type: none"> Double-pack glass containers Avoid contact with skin Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 10 L container 10 L per 50 m² of lab floor space See also Note 1 	 Class 7	<ul style="list-style-type: none"> Laboratory must be signed Store area must be signed Monitoring must be conducted Results to be recorded Segregate from other materials by at least 1 m in a sealed container AS 2243.4 	<ul style="list-style-type: none"> Store in appropriate container: <ul style="list-style-type: none"> lead perspex other – as stipulated Disposal Method 4 	<ul style="list-style-type: none"> Maximum quantity: <ul style="list-style-type: none"> as per management licence
 Class 4.2	<ul style="list-style-type: none"> Will ignite in contact with air or water Segregate from other classes in a sealed container in a spill tray AS/NZS 2243.10, AS/NZS 5026 and AS/NZS 3833 	<ul style="list-style-type: none"> Double-pack glass containers Avoid contact with skin Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 10 L container 10 L per 50 m² of lab floor space See also Note 1 	 Class 8	<p>Acids</p> <ul style="list-style-type: none"> Avoid interaction with alkalis Segregate organic and mineral acids AS/NZS 2243.10, AS 3780 and AS/NZS 3833 <p>Alkalis</p> <ul style="list-style-type: none"> Avoid interaction with acids AS/NZS 2243.10, AS 3780 and AS/NZS 3833 	<ul style="list-style-type: none"> Carriers for 2.5 L quantities Wear gloves as specified Disposal Method 3 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 20 L container 20 L per 50 m² of lab floor space for liquids 50 kg per 50 m² of lab floor space for solids
 Class 4.3	<ul style="list-style-type: none"> Store under oil or inert gas Keep away from moisture Segregate from all other classes by at least 1 m, in a sealed container AS/NZS 2243.10, AS/NZS 5026 and AS/NZS 3833 	<ul style="list-style-type: none"> Double-pack glass containers Avoid contact with skin Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity (see Note 3): <ul style="list-style-type: none"> 10 L container 10 L per 50 m² of lab floor space See also Note 1 	 Class 9	<ul style="list-style-type: none"> Avoid interaction with incompatible chemicals AS/NZS 2243.10, AS/NZS 4681 and AS/NZS 3833 	<ul style="list-style-type: none"> As per specifications on product Avoid contact with skin Disposal Method 2 	<ul style="list-style-type: none"> Maximum quantity for liquids (see Note 3): <ul style="list-style-type: none"> 5 L container 50 L per 50 m² of lab floor space Maximum quantity for solids (see Note 3): <ul style="list-style-type: none"> 20 kg container 100 kg per 50 m² of lab floor space

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 m² of lab floor space.

Note 2: Dangerous goods are assigned a **packing 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 SDS if the chemical is a dangerous good.

Note 3: Where the chemical 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