























Dangerous Goods Guide

1 March 2023

Shipping by air

Lithium ion, metal and alloy cells or batteries



	UN3091 – PI969		UN3091 – PI970		UN3481 – PI966		UN3481 – PI967	
Description	Lithium metal cells / batteries packed with equipment 		Lithium metal cells / batteries contained in equipment 		Lithium ion cells / batteries packed with equipment 		2.1a Lithium metal cells / batteries packed with equipment 	
IATA Section	I		II		I		II	
Capacity limit	Per cell: > 1 g Per battery: > 2 g	Per cell: < 1 g Per battery: < 2 g	Per cell: > 1 g Per battery: > 2 g	Per cell: < 1 g Per battery: < 2 g	Per cell: > 20 Wh Per battery: > 100 Wh	Per cell: < 20 Wh Per battery: < 100 Wh	Per cell: > 20 Wh Per battery: > 100 Wh	Per cell: < 20 Wh Per battery: < 100 Wh
Limit per package	Pax A/C = 5 kg CAO = 35 kg	Pax A/C = 5 kg CAO = 5 kg	Pax A/C = 5 kg CAO = 35 kg	For Australia Post no more than four cells or two batteries per package in accordance with Section 2.4.2 D and E of the IATA regulations. No labelling is required.	Pax A/C = 5 kg CAO = 35 kg	Pax A/C = 5 kg CAO = 5 kg	Pax A/C = 5 kg CAO = 35 kg	For Australia Post no more than four cells or two batteries per package in accordance with Section 2.4.2 D and E of the IATA regulations. No labelling is required.
Labelling								
Service				 				 

All cells and batteries must be tested in accordance with the UN Manual of Tests and Criteria Part III, Subsection 38.3 (DGR 3.9.2.6).

Power banks and other loose lithium batteries classified as either UN3480 or UN3090 are not permitted to be processed via air in line with Qantas restrictions for either their cargo or passenger aircraft.

Shipping by road

Lithium ion, metal and alloy cells or batteries







	UN3090		UN3091		UN3091		UN3480		UN3481		UN3481	
Description	Loose Lithium metal batteries 		Lithium metal cells / batteries packed with equipment 		Lithium metal cells / batteries contained in equipment 		Loose Lithium ion batteries 		Lithium ion cells / batteries packed with equipment 		Lithium ion cells / batteries contained in equipment 	
Code	ADG Code	ADG Code/SP188	ADG Code	ADG Code/SP188	ADG Code	ADG Code/SP188	ADG Code	ADG Code/SP188	ADG Code	ADG Code/SP188	ADG Code	ADG Code/SP188
Capacity limit	Per cell: > 1 g Per battery: > 2 g	Per cell: < 1 g Per battery: < 2 g	Per cell: > 1 g Per battery: > 2 g	Per cell: < 1 g Per battery: < 2 g	Per cell: > 1 g Per battery: > 2 g	Per cell: < 1 g Per battery: < 2 g	Per cell: > 20 Wh Per battery: > 100 Wh	Per cell: < 20 Wh Per battery: < 100 Wh	Per cell: > 20 Wh Per battery: > 100 Wh	Per cell: < 20 Wh Per battery: < 100 Wh	Per cell: > 20 Wh Per battery: > 100 Wh	Per cell: < 20 Wh Per battery: < 100 Wh
Limit per package	No limit	30 kg	No limit	No limit	No limit	No limit	No limit	30 kg	No limit	No limit	No limit	No limit
Labelling												
Service		 		 		 		 		 		 

All cells and batteries must be tested in accordance with the UN Manual of Tests and Criteria Part III, Subsection 38.3 (DGR 3.9.2.6).

Shipping by Australia Post Express Post air network

Acceptable Dangerous Goods and hazardous items

UN Number / Category	Product
UN3373 	Infectious Substances, assigned to Biological Substance, Category B only, when packed in accordance with the requirements of IATA Packing Instruction 650 and when carbon dioxide, solid (dry ice) is used as a refrigerant for infectious substances then the additional requirements of IATA Packing Instruction 954 must be also be met. An airway bill must be raised and presented separately with the consignment to Qantas operations to allow applicable compliance checks to be conducted prior to loading on to an aircraft.
Biological Hazard Category C 	Patient Specimens as defined in Section 3.6.2.1.4 of the IATA Regulations provided that they are classified, packed and marked as required by Section 3.6.2.2.3.8 (a) to (d); and marked as Exempt Human Specimens.
UN3481 	Lithium ion batteries contained in equipment meeting the provisions of Section II of Packing Instruction 967 of the IATA Regulations. No more than four cells or two batteries may be mailed in any single package. Lithium battery mark labels are not required for packages that contain no more than four cells or two batteries contained in devices.
UN3091 	Lithium metal batteries contained in equipment meeting the provisions of Section II of Packing Instruction 970 of the IATA Regulations. No more than four cells or two batteries may be mailed in any single package. Lithium battery mark labels are not required for packages that contain no more than four cells or two batteries contained in devices.

Transport of Dangerous Goods by Post in accordance with Section 2.4 of the IATA Regulations

Section 2.4.1: The Universal Postal Union Convention forbids the carriage of Dangerous Goods in mail except as permitted in accordance with Section 2.4.2 of the IATA Regulations. Appropriate national authorities should ensure that provisions of the UPU Convention are complied with in relation to the transport of Dangerous Goods by air.

Section 2.4.2: The Dangerous Goods listed in this subsection may be accepted in mail for air carriage subject to the provisions of the appropriate national authorities concerned and the parts of these regulations which relate to such materials.

Section 2.4.3: The procedures of designated Postal operators for controlling the introduction of Dangerous Goods in mail in to air transport are subject to review and approval by the Civil Aviation Authority of the State where the mail is accepted.

Shipping by Star Track Premium air network

Acceptable Dangerous Goods and hazardous items

UN Number	Product	Service
UN1845	Dry ice	Premium/Next Flight Service
UN3373	Bio Substance Category B only	Premium/Next Flight Service
UN3481	Lithium ion or Lithium Polymer Cells or Batteries contained in or packed with equipment	Premium/Next Flight Service
UN3091	Lithium Metal or Lithium Alloy Cells or Batteries contained in or packed with equipment	Premium/Next Flight Service
UN3480	Lithium ion or Lithium Polymer Cells or Batteries loose	Not allowed to be moved via air due to Limitation QF06 imposed by Qantas as detailed in Section 2 of the IATA regulations current edition, and must only travel via road and meet the ADG Code current edition regulatory requirements.
UN3090	Lithium Metal or Lithium Alloy Cells or Batteries loose	Not allowed to be moved via air due to Limitation QF05 imposed by Qantas as detailed in Section 2 of the IATA regulations current edition, and must only travel via road and meet the ADG Code current edition regulatory requirements.

Dangerous Goods may only be consigned with our prior consent. Where consent is provided, you must comply with all directions given by us and relevant laws, including without limitation all packaging requirements. Consignments containing Dangerous Goods will incur an additional transit day to the delivery time estimates provided by us. Additional charges apply to the delivery of Dangerous Goods.

Shipping by Star Track Express road network

Acceptable Dangerous Goods and hazardous items

Class	Substances	Accepted
Class 1	Explosives (including marine flares, distress signals etc.)	✗
Class 2, Division 2.1	Flammable gases, but limited to aerosol products for normal domestic use	✓
Class 2, Division 2.2	Non-flammable, non-toxic gases	✓
Class 2, Division 2.3	Toxic gases	✗
Class 3	Flammable liquids (Packing Group II and Packing Group III only)	✓
Class 4, Division 4.1	Flammable solids, except for UN3175 (For example Iso wipes) when customers are approved and placed on the “Dangerous Goods Master List”	✗
Class 4, Division 4.2	Spontaneously combustible substances	✗
Class 4, Division 4.3	Dangerous when wet substances	✗
Class 5, Division 5.1	Oxidizing agents, but limited to hair care products for normal domestic use (Packing Group II and Packing Group III only)	✓
Class 5, Division 5.2	Organic peroxides	✗
Class 6, Division 6.1	Toxic substances - restricted to items from customers approved and placed on the “Dangerous Goods Master List”	✓
Class 6, Division 6.2	Infectious substances, except UN3373 Biological Substances Type B only	✗
Class 7	Radioactive substances (all levels) except for UN2909, 2910 and 2911 in excepted quantities	✗
Class 8	Corrosive substances (liquid or solid) - restricted to items from customers approved and placed on the “Dangerous Goods Master List”	✓
Class 9	Miscellaneous Dangerous Goods, these items will generally be acceptable for carriage, however, some restrictions may apply (Packing Group II and Packing Group III only)	✓
Bulk Dangerous Goods		✗
Guns and live ammunition		✗
Printing inks and paints (unless in cartridges or are personnel items such as nail polish)		✗
Carbon black		✗
Human or animal body parts, blood or tissue samples (Except for consignments meeting either UN3373 Biological Substances or Exempt Human Specimens regulatory requirements.)		✗

Dangerous Goods may only be consigned with our prior consent. Where consent is provided, you must comply with all directions given by us and relevant laws, including without limitation all packaging requirements. Consignments containing Dangerous Goods will incur an additional transit day to the delivery time estimates provided by us. Additional charges apply to the delivery of Dangerous Goods.

Shipping by Australia Post road network

Acceptable Dangerous Goods and hazardous items

Quantity Limits for Exempted Small Consignments including Australia Post Exceptions															
Packing Group	Class or Division														
	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	8	9		
I				20 mL	20 g	20 g	20 g	20 g/mL	150 g/mL	20 g/mL		20 g/mL	-		
II	50 mL	100 mL	50 mL	150 mL	500 g	500 g	150 g	500 g/mL		500 g/mL		500 g/mL	500 g/mL	500 g/mL	500 g/mL
III				300 mL											

Table Notes

- a) Division 6.2 UN3373 Category B only must be packed and marked in accordance with Packing Instruction P650 of the ADG Code (current edition).
- b) Lithium batteries alone and equipment accompanied by or with lithium batteries installed will only be accepted under the conditions of ADG (Road and Rail) and IMDG (Sea) Codes (Current Editions) SP188.
- c) The quantity limits outlined in the above table are per consignment/tracking number, and except for lithium batteries are restricted to road and rail only and cannot be processed where a sea movement is required to achieve the last mile delivery, and a road only label is to be affixed to assist operations in ensuring these specific consignments do not enter the Auspost air network against UPU Convention limitations for postal organisations such as Auspost.

Shipping by Australia Post road network

Requirements to lodge “exempted” Consumer Commodities Dangerous Goods

Exempted Dangerous Goods

“Exempted” Dangerous Goods are:

- Those that are allowed to be transported as consignments that are exempted from the normal documentation and DG labelling requirements of the ADG Code (current edition) for the transport of dangerous goods by road and rail via the Auspost surface network.
- Are allowable under Regulation 1.1.6(2) of the Model Subordinate Instrument on the Transport of Dangerous Goods by Road & Rail and Chapter 1, clause 1.1.1.2 of the Australian Code for the Transport of Dangerous Goods by Road & Rail (Current Edition). Exempted quantities regulations are not recognised by the IMDG code for movement via sea to Tasmania for example.

This does not cover the acceptance of Limited Quantity nor fully declarable dangerous goods requiring Dangerous Goods marking, labelling and documentation, nor does it cover the acceptance of very small quantities of dangerous goods for transport by air or sea, under Exempted Quantity regulations.

Safety Data Sheets (SDS) are to be obtained from the customer for any proposed lodgements of exempted dangerous goods and supplied to the National Dangerous Goods Manager prior to approval for carriage being provided.

To determine if a product is classified as a DG or not, and to then allow to identify both its DG class and Packing Group (risk factor) can be found in Section 14 Transport Information of each specific products SDS from its manufacturer. SDS are not supplied by Auspost, and are the customers responsibility to source as required.

The customer must then confirm the applicable quantity allowed by utilising the table on slide 7 of this guide.

Packaging

The packaging combination for ‘Exempted’ Dangerous Goods must be strong enough to withstand the shocks and loading normally encountered in transport, as the package is moved between various transport vehicles and automated handling facilities.

The outer packaging for ‘Exempted’ Quantity Dangerous Goods must be clearly marked in RED text next to the receivers address, “ROAD TRANSPORT ONLY” and/or have affixed the Australia Post “ROAD TRANSPORT ONLY – NOT TO BE MOVED VIA AIR/SEA” label.

A consignment/tracking number for any one receiver must not exceed the maximum limits as shown in Table Quantity Limits for Exempted Small Consignments including Australia Post Exceptions, located at slide 7 of this guide.

Except for the ROAD TRANSPORT ONLY label and the name and address of the receiver, Exempted dangerous goods are excused from all marking, labelling and documentation requirements normally associated with the preparation of dangerous goods lodgements in accordance with the ADG Code (current edition).

Consignments displaying Dangerous Goods class diamond labels must not be accepted in to the Australia Post road network. Dangerous Goods class diamond labels are an indication that the package contains declarable dangerous goods, and are above and beyond the allowable quantity limits of Exempted Dangerous Goods outlined in slide 7 of this guide.

At point of lodgement an outer packaging containing exempted dangerous goods must be checked for the following markings (text) and labels:

1. “ROAD TRANSPORT ONLY – NOT TO BE MOVED BY AIR/SEA” label; and/or the text, “ROAD TRANSPORT ONLY”.
2. Consignments displaying DG or Hazard class labels must not be accepted in to the Australia Post surface network. If the lodgement is “exempted” the customer must remove or obliterate the DG/hazard label prior to collection/acceptance.
3. Australia Post personnel must not remove labels.
4. Transport by Road - No special requirements apply.
5. Sort Facility - No special requirements apply.

Need further information?

For further information on shipping dangerous goods through the Australia Post and StarTrack network please visit:

auspost.com.au/sending/check-sending-guidelines/dangerous-prohibited-items

auspost.com.au

startrack.com.au

