



# Batteries by Air

## Compliance Summary 2025

### ADVISORY DOCUMENT for LITHIUM and SODIUM ION batteries

**Reference: IATA Dangerous Goods Regulations 66th Edition 2025**

Packing Instruction 965 - Lithium Ion Batteries UN3480 (Page 2)

Packing instruction 976 - Sodium ion batteries UN3551 (Page 3)

Packing Instruction 966 - Lithium Ion Batteries packed with equipment UN3481 (Page 4)

Packing instruction 978 - Sodium ion batteries packed with equipment UN3552 (Page 4)

Packing Instruction 967 - Lithium Ion Batteries contained in equipment UN3481 (Page 5)

Packing instruction 977 - Sodium ion batteries contained in equipment UN3552 (Page 5)

Packing Instruction 968 - Lithium Metal Batteries UN3090 (Page 6)

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Packing Instruction 970 - Lithium Metal Batteries contained in equipment UN3091 (Page 8)

Declaration completion example and miscellaneous information (Page 9)

Lithium batteries installed in cargo transport unit (UN3536) - **FORBIDDEN**

Refer to Appendix A of the IATA DGR for definitions of Lithium Ion & Metal Batteries



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**Note:** Manufacturers and distributors of cells or batteries manufactured after 30 June 2003 must make available the test summary as specified in the UN Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5. Reference documents obtained from distributors should show watt hour ratings or lithium content in grams.

Please remember: Commercial shippers of lithium or sodium ion batteries are required to be trained under the IATA and Australian Civil Aviation Safety Authority (CASA) legislation.

Disclaimer: The intention of this document is not replace the IATA or CASA regulations, merely to aid with the interpretation of the applicable Lithium battery requirements. No user should act on such information without reference to applicable Regulations.

Every effort has been made to present accurate, current information but **AIRSAFE** shall not be held responsible for loss, damage or legal action due to errors or omissions, misprints or misinterpretation of the contents.

| <b>Lithium Ion Batteries</b><br>(Rechargeable)<br><b>UN3480 - PI 965</b>                                                                                       | <b>Section IA</b><br><b>FULLY DECLARED DG</b><br><b>FORBIDDEN on Passenger Aircraft</b>                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Section IB</b><br><b>FULLY DECLARED DG</b><br><b>FORBIDDEN on Passenger Aircraft</b>                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                                                                | <b>Note:</b> UN 3480 lithium ion batteries are restricted to no more than 30% state of charge (SoC).                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applicable to:</b><br><br><i>Note: Includes battery packs, modules and rechargers having the purpose of providing a source of power to other equipment.</i> | Batteries over 100 Watt hour (W/h), Cells over 20 W/h<br><br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <br/>           Cell (Single unit)         </div> <div style="text-align: center;"> <br/>           Battery (Multiple cells connected)         </div> </div> | Batteries no more than 100 W/h,<br><br>Cells no more than 20 W/h.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Packaging and marking requirements</b>                                                                                                                      | <b>UN Specification packages to PG II Standard</b> (See PI for types) <ul style="list-style-type: none"> <li>• Protection against short circuit or arching. Inner packages must completely enclose Cell/Battery</li> <li>• UN Number - <b>"UN3480"</b></li> <li>• Proper shipping name - <b>"Lithium ion batteries"</b></li> <li>• Shipper and Consignees details in full.</li> <li>• If overpacking do not place with Class 1 (except 1.4S), 2.1, 3, 4.1 or 5.1</li> </ul>                                     | <b>Strong Rigid Outer packaging</b> (See PI for types) <ul style="list-style-type: none"> <li>• Protection against short circuit or arching. Inner packages must completely enclose Cell/Battery</li> <li>• UN Number - <b>"UN3480"</b> (on handling label)</li> <li>• Proper shipping name - <b>"Lithium ion batteries"</b></li> <li>• Shipper and Consignees details in full.</li> <li>• If overpacking do not place with Class 1 (except 1.4S), 2.1, 3, 4.1 or 5.1</li> </ul> |
| <b>Label required</b>                                                                                                                                          | Class 9 + Cargo Aircraft Only<br><br><div style="display: flex; justify-content: space-around; align-items: center;">   </div>                                                                                                                                                                                                                | Class 9 + Battery handling label + CAO<br><br><div style="display: flex; justify-content: space-around; align-items: center;">    </div>                                                                                |
| <b>Quantity allowed per package</b>                                                                                                                            | <b>FORBIDDEN</b> - Passenger Aircraft<br>35 Kg Net per package - Cargo Aircraft only                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>FORBIDDEN</b> - Passenger Aircraft<br>10 Kg Net per package - Cargo Aircraft only                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Shippers Declaration required</b>                                                                                                                           | YES, see example on last page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | YES, see example on last page<br>(IB in Packing Instruction column after number or in Authorisation column)                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AWB/Con-note or Transport Document statement requirements</b>                                                                                               | "Dangerous Goods as per associated DGD - CAO"                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | "Dangerous Goods as per associated DGD - CAO"                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Airline Requirements</b>                                                                                                                                    | <b>RBI</b> - (Restricted Battery ion)<br>Full Acceptance check list required<br><b>Required on NOTOC</b>                                                                                                                                                                                                                                                                                                                                                                                                        | <b>RBI</b> - (Restricted Battery ion)<br>Full Acceptance check list required<br><b>Required on NOTOC</b>                                                                                                                                                                                                                                                                                                                                                                         |

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| <b>Sodium Ion Batteries</b><br>(Rechargeable)<br><b>UN3551 - PI 976</b>                                                                                        | <p style="text-align: center;"><b>FULLY DECLARED DG</b></p> <p style="text-align: center;"><b>FORBIDDEN on Passenger Aircraft</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                | <p style="text-align: center;"><i>Note: UN 3551 sodium ion batteries are restricted to no more than 30% state of charge (SoC).</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applicable to:</b><br><br><i>Note: Includes battery packs, modules and rechargers having the purpose of providing a source of power to other equipment.</i> | <p style="text-align: center;">All sizes of Sodium ion batteries transported under UN 3551 must comply fully with PI 976</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <br/>           Cell (Single unit)         </div> <div style="text-align: center;"> <br/>           Battery (Multiple cells connected)         </div> </div> |
| <b>Packaging and marking requirements</b>                                                                                                                      | <p><b>UN Specification packages to PG II Standard</b> (See PI for types)</p> <ul style="list-style-type: none"> <li>• Protection against short circuit or arching. Inner packages must completely enclose Cell/Battery</li> <li>• UN Number - <b>“UN3551”</b></li> <li>• Proper shipping name - <b>“Sodium ion batteries”</b></li> <li>• Shipper and Consignees details in full.</li> <li>• If overpacking do not place with Class 1 (except 1.4S), 2.1, 3, 4.1 or 5.1</li> </ul>                                                                                                  |
| <b>Label required</b>                                                                                                                                          | <p style="text-align: center;">Class 9      +      Cargo Aircraft Only</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>                                                                                                                                                                                                                                         |
| <b>Quantity allowed per package</b>                                                                                                                            | <p style="text-align: center;"><b>FORBIDDEN</b> - Passenger Aircraft</p> <p style="text-align: center;">35 Kg Net per package - Cargo Aircraft only</p>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Shippers Declaration required</b>                                                                                                                           | <p style="text-align: center;">YES, see example on last page</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AWB/Con-note or Transport Document statement requirements</b>                                                                                               | <p style="text-align: center;">“Dangerous Goods as per associated DGD - CAO”</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Airline Requirements</b>                                                                                                                                    | <p style="text-align: center;"><b>RBI</b> - (Restricted Battery ion)<br/>         Full Acceptance check list required<br/> <b>Required on NOTOC</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Lithium Ion Batteries packed with equipment UN3481 - PI 966</b><br><b>Sodium Ion Batteries packed with equipment UN3552 - PI 977</b> | <p style="text-align: center;"><b>Section I</b><br/><b>FULLY DECLARED DG</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p style="text-align: center;"><b>Section II</b><br/><b>Not subject to all aspects of the DGR</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                         | <p style="text-align: center;"><i><b>Note:</b> UN 3481 spare batteries are restricted to no more than 30% state of charge (SoC). This does not apply to UN 3552</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applicable to:</b>                                                                                                                   | <p style="text-align: center;">Batteries over 100 Watt hour (W/h)<br/>Cells over 20 W/h</p> <p><i><b>Note:</b> The maximum number of batteries allowed in the package is the appropriate number required to power the equipment plus two spare sets (set = number of cells or batteries required to power each piece of equipment).</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                               | <p style="text-align: center;">Batteries no more than 100 W/h<br/>Cells no more than 20 W/h</p> <p><i><b>Note:</b> The maximum number of batteries allowed in the package is the appropriate number required to power the equipment plus two spare sets (set = number of cells or batteries required to power each piece of equipment).</i></p>                                                                                                                                                                                                                       |
| <b>Packaging and marking requirements</b>                                                                                               | <p><b>UN Specification package must meet PG II Standard</b> (See PI for types)</p> <ul style="list-style-type: none"> <li>Cells / Batteries may be packed in UN spec package then placed with equipment into strong rigid <b>outer</b> packaging, or</li> <li>Cells / Batteries and equipment all packed in UN spec packaging.</li> <li>Cells / Batteries must be individually protected and be completely enclosed by <b>inner</b> packaging.</li> <li>UN Number - “<b>UN 3481</b>” or <b>UN 3552</b> as applicable</li> <li>Proper shipping name - “<b>Lithium ion batteries packed with equipment</b>” or “<b>Sodium ion batteries packed with equipment</b>” as applicable.</li> <li>Shippers and consignee details in full.</li> <li>Overpacking allowed.</li> </ul> | <p><b>Strong Rigid Outer packaging</b> (See PI for Types)</p> <ul style="list-style-type: none"> <li>Inner packages must completely enclose Cells /Battery,</li> <li>Protected against short circuit or arching,</li> <li>Cells / Batteries can be placed in separate <b>inner</b> packages to the equipment,</li> <li>The equipment and batteries must all be packed in the same <b>outer</b> package.</li> <li>Individual packages may be placed in an overpack. The overpack must not contain substances which might react dangerously with each other.</li> </ul> |
| <b>Label required</b>                                                                                                                   | <p>Class 9 Lithium or sodium ion battery hazard label.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Battery handling label.<br/>(UN 3481 or UN 3552 as applicable on label)</p>                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Quantity allowed per package</b>                                                                                                     | <p style="text-align: center;">Maximum net quantity (batteries within package):<br/>5 Kg Net - Passenger Aircraft<br/>35 Kg Net - Cargo Aircraft Only</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p style="text-align: center;">Maximum net quantity (batteries within package):<br/>5 Kg Net - Passenger Aircraft<br/>5 Kg Net - Cargo Aircraft Only</p>                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Shippers Declaration required</b>                                                                                                    | <p style="text-align: center;">YES, see example on last page</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p style="text-align: center;">NO</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AWB/Con-note or Transport Document statement requirements</b>                                                                        | <p style="text-align: center;">“Dangerous Goods as per associated DGD”<br/>Include “<b>CAO</b>” after the above statement if applicable</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>The words<br/>“Lithium ion batteries in compliance with section II of PI 966” or<br/>“Sodium ion batteries in compliance with section II of PI 977”</p>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Airline Requirements</b>                                                                                                             | <p style="text-align: center;"><b>RLI</b> - (Restricted Lithium or Sodium ion)<br/>Full Acceptance check list required.<br/><b>Required on NOTOC</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p style="text-align: center;"><b>ELI</b> - (Exempt Lithium or sodium ion)<br/>No check list required.<br/>Not required on NOTOC</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <b>Lithium Ion Batteries contained in equipment UN3481 - PI 967</b><br><b>Sodium ion batteries contained equipment UN3552 - PI 978</b> | <p style="text-align: center;"><b>Section I</b><br/><b>FULLY DECLARED DG</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p style="text-align: center;"><b>Section II</b><br/><b>Not subject to all aspects of the DGR</b></p>                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                        | <p><b>Note:</b> UN 3481 batteries and cells are restricted to no more than 30% state of charge (SoC). This does not apply to UN 3552</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applicable to:</b>                                                                                                                  | <p style="text-align: center;">Batteries over 100 Watt hour (W/h)<br/>Cells over 20 W/h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p style="text-align: center;">Batteries no more than 100 W/h<br/>Cells no more than 20 W/h</p>                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Packaging and marking requirements</b>                                                                                              | <p><b>Strong Rigid Outer packaging</b><br/>(See PI for types, UN Specification packaging not required)</p> <ul style="list-style-type: none"> <li>• Protection against short circuit or arching and accidental activation.</li> <li>• UN Number - “<b>UN 3481</b>” or “<b>UN 3552</b>” as applicable</li> <li>• Proper shipping name -<br/>“<b>Lithium ion batteries contained in equipment</b>” or<br/>“<b>Sodium ion batteries contained in equipment</b>” as applicable</li> <li>• Shippers and consignee details in full.</li> <li>• Overpacking allowed.</li> </ul> | <p><b>Strong Rigid Outer packaging</b> (See PI for Types)</p> <ul style="list-style-type: none"> <li>• Protection against short circuit or arching and accidental activation.</li> <li>• Individual packages may be placed in an overpack. The overpack must not contain substances which might react dangerously with each other.</li> </ul>                                                                                                                                                                  |
| <b>Label required</b>                                                                                                                  | <p style="text-align: center;">Class 9 Lithium or sodium battery hazard label</p> <div style="text-align: center;">  </div>                                                                                                                                                                                                                                                                                                                                                            | <p style="text-align: center;">Battery handling label (UN 3481 or UN 3552 as applicable on label)</p> <div style="text-align: center;">  </div> <p><b>Note:</b> The label and AWB statement, does not apply to:<br/> - Button cell batteries and circuit boards in equipment; OR<br/> - Consignments of no more than 2 packages where each package contains no more than 4 cells or 2 batteries installed in equipment.</p> |
| <b>Quantity allowed per package</b>                                                                                                    | <p style="text-align: center;">Maximum net quantity (batteries within package):<br/> 5 Kg Net (batteries ) - Passenger Aircraft<br/> 35 Kg Net (batteries) - Cargo Aircraft only</p>                                                                                                                                                                                                                                                                                                                                                                                     | <p style="text-align: center;">Maximum net quantity (batteries within package):<br/> 5 Kg Net - Passenger Aircraft<br/> 5 Kg Net - Cargo Aircraft Only</p>                                                                                                                                                                                                                                                                                                                                                     |
| <b>Shippers Declaration required</b>                                                                                                   | <p style="text-align: center;">YES, see example on last page.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p style="text-align: center;">NO</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AWB/Con-note or Transport Document statement requirements</b>                                                                       | <p style="text-align: center;">“Dangerous Goods as per associated DGD”<br/> Include “<b>CAO</b>” after the above statement if applicable.</p>                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>The words<br/> “Lithium ion batteries in compliance with Section II of PI 967” or<br/> “Sodium ion batteries in compliance with section II of PI 978”</p>                                                                                                                                                                                                                                                                                                                                                   |
| <b>Airline Requirements</b>                                                                                                            | <p style="text-align: center;"><b>RLI</b> - (Restricted Lithium or sodium ion)<br/> Full Acceptance check list required<br/> <b>Required on NOTOC</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                | <p style="text-align: center;"><b>ELI</b> - (Exempt Lithium or sodium ion)<br/> No check list required<br/> Not required on NOTOC</p>                                                                                                                                                                                                                                                                                                                                                                          |

| <b>Lithium Metal Batteries</b><br>(Non- Rechargeable)<br><b>UN3090 - PI 968</b>                                                    | <b>Section IA</b><br><b>FULLY DECLARED DG</b><br><b>FORBIDDEN on Passenger Aircraft</b>                                                                                                                                                                                                                                                                                                                                                                                        | <b>Section IB</b><br><b>FULLY DECLARED DG</b><br><b>FORBIDDEN on Passenger Aircraft</b>                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Applicable to:</b>                                                                                                              | Batteries over 2 grams (g) aggregate of Lithium metal<br>Cells over 1 g of Lithium metal.                                                                                                                                                                                                                                                                                                                                                                                      | Batteries no more than 2 g aggregate of lithium metal.<br>Cells no more than 1 g of lithium metal.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Packaging and marking requirements</b><br><br> | <b>UN Specification packages to PG II Standard</b> (See PI for types) <ul style="list-style-type: none"> <li>• Protection against short circuit or arching. Inner packages must completely enclose Cell/Battery</li> <li>• UN Number - <b>“UN 3090”</b></li> <li>• Proper shipping name - <b>“Lithium metal batteries”</b></li> <li>• Shipper and Consignees details in full.</li> <li>• If overpacking do not place with Class 1 (except 1.4S), 2.1, 3, 4.1 or 5.1</li> </ul> | <b>Strong Rigid Outer packaging</b> (See PI for types) <ul style="list-style-type: none"> <li>• Protection against short circuit or arching. Inner packages must completely enclose Cell/Battery</li> <li>• UN Number - <b>“UN 3090”</b> (on handling label)</li> <li>• Proper shipping name - <b>“Lithium metal batteries”</b></li> <li>• Shipper and Consignees details in full.</li> <li>• If overpacking do not place with Class 1 (except 1.4S), 2.1, 3, 4.1 or 5.1</li> </ul> |
| <b>Label required</b>                                                                                                              | Class 9 + Cargo Aircraft Only<br><br>                                                                                                                                                                                                                                                                       | Class 9 + Battery handling label + CAO<br><br>                                                                                                                                                                             |
| <b>Quantity allowed per package</b>                                                                                                | <b>FORBIDDEN</b> - Passenger Aircraft<br>35 Kg Net per package - Cargo Aircraft only                                                                                                                                                                                                                                                                                                                                                                                           | <b>FORBIDDEN</b> - Passenger Aircraft<br>2.5 Kg Net per package - Cargo Aircraft only                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Shippers Declaration required</b>                                                                                               | YES, see example on last page                                                                                                                                                                                                                                                                                                                                                                                                                                                  | YES, see example on last page<br>(IB in Packing Instruction column after number or in Authorisation Column)                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AWB/Con-note or Transport Document statement requirements</b>                                                                   | “Dangerous Goods as per associated DGD - CAO”                                                                                                                                                                                                                                                                                                                                                                                                                                  | “Dangerous Goods as per associated DGD - CAO”                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Airline Requirements</b>                                                                                                        | <b>RBM</b> - (Restricted Battery Metal)<br>Full Acceptance check list required<br><b>Required on NOTOC</b>                                                                                                                                                                                                                                                                                                                                                                     | <b>RBM-</b> (Restricted Battery Metal)<br>Full Acceptance check list required<br><b>Required on NOTOC</b>                                                                                                                                                                                                                                                                                                                                                                           |



| Lithium Metal Batteries<br>packed with equipment<br>UN3091 - PI 969 | Section I<br>FULLY DECLARED DG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Section II<br>Not subject to all aspects of the DGR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Applicable to:</b>                                               | Batteries over 2 grams (g) aggregate of Lithium metal<br>Cells over 1 g of Lithium metal<br><br><b>Note: The maximum number of batteries allowed in the package is the appropriate number required to power the equipment plus two spare sets</b> (set = number of cells or batteries required to power each piece of equipment).                                                                                                                                                                                                                                                                                                                              | Batteries no more than 2 g aggregate of Lithium metal<br>Cells no more than 1 g of Lithium metal<br><br><b>Note: The maximum number of batteries allowed in the package is the appropriate number required to power the equipment plus two spare sets</b> (set = number of cells or batteries required to power each piece of equipment).                                                                                                                                                                                                                      |
| <b>Packaging and marking requirements</b>                           | <b>UN Specification package must meet PG II Standard</b> (See PI for types) <ul style="list-style-type: none"> <li>Cells / Batteries may be packed in UN spec package then placed with equipment into strong rigid <b>outer</b> packaging, or</li> <li>Cells / Batteries and equipment all packed in UN spec packaging.</li> <li>Cells / Batteries must be individually protected and be completely enclosed by <b>inner</b> packaging.</li> <li>UN Number - “<b>UN 3091</b>”</li> <li>Proper shipping name - “<b>Lithium metal batteries packed with equipment</b>”</li> <li>Shippers and consignee details in full.</li> <li>Overpacking allowed.</li> </ul> | <b>Strong Rigid Outer packaging</b> (See PI for Types) <ul style="list-style-type: none"> <li>Inner packages must completely enclose Cells /Battery,</li> <li>Protected against short circuit or arching,</li> <li>Cells / Batteries can be placed in separate <b>inner</b> packages to the equipment,</li> <li>The equipment and batteries must all be packed in the same <b>outer</b> package.</li> <li>Individual packages may be placed in an overpack. The overpack must not contain substances which might react dangerously with each other.</li> </ul> |
| <b>Label required</b>                                               | Class 9 Lithium or sodium battery hazard label                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Battery handling label (UN3091 on label)                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Quantity allowed per package</b>                                 | Maximum net quantity (batteries within package):<br>5 Kg Net - Passenger Aircraft<br>35 Kg Net - Cargo Aircraft only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Maximum net quantity (batteries within package):<br>5 Kg Net - Passenger Aircraft<br>5 Kg Net - Cargo Aircraft only                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Shippers Declaration required</b>                                | YES, see example on last page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AWB/Con-note or Transport Document statement requirements</b>    | “Dangerous Goods as per associated DGD”<br>Include “ <b>CAO</b> ” after the above statement if applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The words “Lithium metal batteries in compliance with Section II of PI 969”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Airline Requirements</b>                                         | <b>RLM</b> - (Restricted Lithium metal)<br>Full Acceptance check list required,<br><b>NOTOC required</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>ELM</b> - (Exempt Lithium metal)<br>No check list required,<br>Not Required on NOTOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



Inside a lithium metal cell

| <b>Lithium Metal Batteries contained in equipment</b><br><b>UN3091 - PI 970</b> | <b>Section I</b><br><b>FULLY DECLARED DG</b>                                                                                                                                                                                                                                                                                                                | <b>Section II</b><br><b>Not subject to all aspects of the DGR</b>                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicable to:</b>                                                           | Batteries over 2 grams (g) aggregate of Lithium metal<br><br>Cells over 1 g of Lithium metal                                                                                                                                                                                                                                                                | Batteries no more than 2 grams (g) aggregate of Lithium metal<br><br>Cells no more than 1 g of Lithium metal                                                                                                                                                                                                                                                                                                               |
| <b>Packaging and marking requirements</b>                                       | <b>Strong Outer packaging</b> (See PI for Types, UN Specification packaging not required) <ul style="list-style-type: none"> <li>• Protection against short circuit or arching</li> <li>• UN Number - “<b>UN 3091</b>”</li> <li>• Proper shipping name - “<b>Lithium metal batteries contained in equipment</b>”</li> <li>• Overpacking allowed.</li> </ul> | <b>Strong Rigid Outer packaging.</b> (See PI for Types) <ul style="list-style-type: none"> <li>• Protection against short circuit or arching and accidental activation.</li> <li>• Individual packages may be placed in an overpack. The overpack must not contain substances which might react dangerously with each other.</li> </ul>                                                                                    |
| <b>Label required</b>                                                           | Class 9<br><br>                                                                                                                                                                                                                                                            | Battery handling label (UN 3091 on label)<br><br><br><br><i>Note: The label and AWB statement, does not apply to:</i><br><i>- Button cell batteries and circuit boards in equipment; OR</i><br><i>- Consignments of no more than 2 packages where each package contains no more than 4 cells or 2 batteries installed in equipment.</i> |
| <b>Quantity allowed per package</b>                                             | Maximum net quantity (batteries within package):<br>5 Kg Net - Passenger Aircraft<br>35 Kg Net - Cargo Aircraft only                                                                                                                                                                                                                                        | Maximum net quantity (batteries within package):<br>5 Kg Net - Passenger Aircraft<br>5 Kg Net - Cargo Aircraft only                                                                                                                                                                                                                                                                                                        |
| <b>Shippers Declaration required</b>                                            | YES, see example last page                                                                                                                                                                                                                                                                                                                                  | NO                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AWB/Con-note or Transport Document statement requirements</b>                | “Dangerous Goods as per associated DGD”<br>Include “ <b>CAO</b> ” after the above statement if applicable                                                                                                                                                                                                                                                   | The words “Lithium metal batteries in compliance with Section II of PI 970”                                                                                                                                                                                                                                                                                                                                                |
| <b>Airline Requirements</b>                                                     | <b>RLM</b> - (Restricted Lithium metal)<br>Full Acceptance check list required<br><b>Required on NOTOC</b>                                                                                                                                                                                                                                                  | <b>ELM</b> - (Exempt Lithium metal)<br>No check list required<br>Not Required on NOTOC                                                                                                                                                                                                                                                                                                                                     |





## Additional Information

| NATURE AND QUANTITY OF DANGEROUS GOODS                                                                                                                                                                                                   |                                                |                                                                                                                                                                                                                             |                |                              |            |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|------------|----------------|
| Dangerous Goods Identification                                                                                                                                                                                                           |                                                |                                                                                                                                                                                                                             |                |                              |            |                |
| UN or ID No.                                                                                                                                                                                                                             | Proper Shipping Name                           | Class or Division (Subsidiary Risk)                                                                                                                                                                                         | Pack-ing Group | Quantity and Type of Packing | Pack Inst. | Author-ization |
| UN3481                                                                                                                                                                                                                                   | Lithium ion batteries packed with equipment    | 9                                                                                                                                                                                                                           |                | 2 Fibreboard boxes x 5Kg     | 966        |                |
| UN3481                                                                                                                                                                                                                                   | Lithium ion batteries contained in equipment   | 9                                                                                                                                                                                                                           |                | 2 Fibreboard boxes x 5Kg     | 967        |                |
| UN3091                                                                                                                                                                                                                                   | Lithium metal batteries packed with equipment  | 9                                                                                                                                                                                                                           |                | 2 Fibreboard boxes x 5Kg     | 969        |                |
| UN3091                                                                                                                                                                                                                                   | Lithium metal batteries contained in equipment | 9                                                                                                                                                                                                                           |                | 1 Fibreboard boxes x 5Kg     | 970        |                |
| UN3552                                                                                                                                                                                                                                   | Sodium ion batteries packed with equipment     | 9                                                                                                                                                                                                                           |                | 1 Fibreboard box 5Kg         | 977        |                |
| UN3552                                                                                                                                                                                                                                   | Sodium ion batteries contained in equipment    | 9                                                                                                                                                                                                                           |                | 2 Fibreboard boxes 5kg       | 978        |                |
| <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">PASSENGER AND CARGO AIRCRAFT</div> <div style="border: 1px solid black; padding: 2px;">CARGO AIRCRAFT ONLY</div> </div> |                                                |                                                                                                                                                                                                                             |                |                              |            |                |
| Airport of Destination                                                                                                                                                                                                                   |                                                | Shipment Type (Delete non-applicable)                                                                                                                                                                                       |                |                              |            |                |
|                                                                                                                                                                                                                                          |                                                | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">NON-RADIOACTIVE</div> <div style="border: 1px solid black; padding: 2px;">RADIOACTIVE XXXXXXXX</div> </div> |                |                              |            |                |
| NATURE AND QUANTITY OF DANGEROUS GOODS                                                                                                                                                                                                   |                                                |                                                                                                                                                                                                                             |                |                              |            |                |
| Dangerous Goods Identification                                                                                                                                                                                                           |                                                |                                                                                                                                                                                                                             |                |                              |            |                |
| UN or ID No.                                                                                                                                                                                                                             | Proper Shipping Name                           | Class or Division (Subsidiary Risk)                                                                                                                                                                                         | Pack-ing Group | Quantity and Type of Packing | Pack Inst. | Author-ization |
| UN3480                                                                                                                                                                                                                                   | Lithium ion batteries                          | 9                                                                                                                                                                                                                           |                | 1 Fibreboard box x 5Kg       | 965        |                |
| UN3090                                                                                                                                                                                                                                   | Lithium metal batteries                        | 9                                                                                                                                                                                                                           |                | 1 Fibreboard box x 35Kg      | 968        |                |
| UN3551                                                                                                                                                                                                                                   | Sodium ion batteries                           | 9                                                                                                                                                                                                                           |                | 1 Fibreboard box x 25Kg      | 976        |                |
| UN3480                                                                                                                                                                                                                                   | Lithium ion batteries                          | 9                                                                                                                                                                                                                           |                | 1 Fibreboard box x 10Kg      | 965        | 1B             |
| UN3090                                                                                                                                                                                                                                   | Lithium metal batteries                        | 9                                                                                                                                                                                                                           |                | 1 Fibreboard box x 2.5Kg     | 968        | 1B             |

**To calculate watt hour for Lithium ion and Sodium ion batteries**  
 Ah (Amperes per hour) x V (Volt) = Wh

Examples of the DGD information required for Li Batteries in compliance with Section I or IA of the Packing Instructions shown and Sodium batteries in compliance with section I of the packing instructions shown.

Maximum net per package for Passenger Aircraft = 5 Kg  
 Maximum net per package for Cargo Aircraft Only = 35 Kg

To assist in aligning the labelling requirements of all modes of transport, the Hazard and Handling label used must be as shown below:

Hazard label:



Handling label:

Requires:  
**UN number**  
 Optional  
 Tel Number



As at 01 January 2023 the handling label no longer requires a telephone number to be included. The label with a telephone number can be used until 31 December 2026.

Lithium and Sodium batteries packed without equipment must be separated from classes 1 (other than 1.4S), 2.1, 3, 4.1 and 5.1.

Example of the DGD information required for Li Ion Batteries and Li Metal Batteries in compliance with Section IA of the Packing Instructions 965 and 968 respectively and Sodium ion batteries in compliance with Packing instruction 976  
 Maximum net per package for Cargo Aircraft = 35 Kg  
**FORBIDDEN on PAX aircraft**

Example of the DGD information required for Li Ion Batteries and Li Metal Batteries in compliance with Section IB of the Packing Instructions 965 and 968 respectively.

Li Ion Batteries: Maximum net per package for Cargo Aircraft = 10kg  
 Li Metal Batteries: Maximum net per package for Cargo Aircraft = 2.5kg

**FORBIDDEN on PAX aircraft.**