

Summary of Changes for Lithium metal or Lithium alloy Cells and Batteries

Developed by NCA, December, 2013

PI 968 Lithium metal or Lithium alloy Cells and Batteries (UN3090)

		Cells or Batteries as Class 9 Dangerous Goods		Excepted Cells or Batteries
		Section IA	Section IB	Section II
Types of cells or batteries		Types of cells or batteries 1) Cells with a lithium content more than 1g. 2) Batteries with a lithium content more than 2g. 3) Types of cells or batteries subject to Section II or Section IB but exceed the both limitations of Section II and Section IB.	Types of cells or batteries 1) Cells with a lithium content not more than 1g. 2) Batteries with a lithium content not more than 2g.	Types of cell or battery 1) Cells or batteries with a lithium content not more than 0.3g. 2) Cells with a lithium content not more than 1g. 3) Batteries with a lithium content not more than 2g.
Limitations	Number of cells or batteries per package	N/A	If the numbers of cells or batteries in a package exceed the limitation for Section II, those can be transported under the provision of Section IB (Class 9 Dangerous Goods).	Above 1), 2) and 3) 1) No Limit 2) 8 Cells. 3) 2 Batteries. Note: Different types of cells or batteries must not be packed together in one outer packaging.
	Net Quantity (Mass) of cells or batteries per package	PAX aircraft: 2.5kg CAO aircraft: 35kg	Gross weight of the package must not exceed 2.5kgG.	Above 1), 2) and 3) 1) 2.5kg per package 2) N/A 3) N/A
UN Test		Cells and batteries must pass the 38.3 UN Test.	Cells and batteries must pass the 38.3 UN Test.	Cells and batteries must pass the 38.3 UN Test.
Shipper's Declaration for Dangerous Goods (DGD)		Yes, required.	Yes, required* . (please refer to *)	Not required.
AWB Indication		"Dangerous Goods as per attached Shipper's Declaration" and "Cargo Aircraft Only" if applicable.	"Dangerous Goods as per attached Shipper's Declaration" and "Cargo Aircraft Only" if applicable.	"Lithium metal Batteries in compliance with Section II of PI 968".
Other Document		N/A	<ul style="list-style-type: none"> ● The package contains Lithium metal cells or batteries. ● The package must be handled with care and that a flammability hazard exists if the package is damaged. ● Special procedure must be followed in the event the package is damaged, to include inspection and repacking if necessary. ● A telephone number for additional information. ** (please refer to **)	<ul style="list-style-type: none"> ● The package contains Lithium metal cells or batteries. ● The package must be handled with care and that a flammability hazard exists if the package is damaged. ● Special procedure must be followed in the event the package is damaged, to include inspection and repacking if necessary. ● A telephone number for additional information. <p style="text-align: right;">To be continued.</p>

	Section IA	Section IB	Section II
UN Specification Packaging	Yes, UN specification packagings meeting PG II performance standard, must be used. However, lithium metal batteries with a mass of 12kg or greater and having a strong, impact-resistant outer casing, or assemblies of such batteries, may be transported when packed in strong outer packagings under the approval of the state of origin. A copy of approval must accompany.	No, UN specification packaging is not required. But the packaging must be test for 1.2m drop test.	No But the packaging must be test for 1.2m drop test.
Class 9 Hazard Label	Yes	Yes	Not required.
Lithium Battery Handling Label	No.	Yes	Yes, must be affixed on the Package.
NOTOC (requirement for Airlines)	Yes, required.	Yes, Required.	Not required.
All other requirements in DGR	Must be applied.	Must be applied.	Not applicable. (must meet requirements in PI968 and applicable Special Provisions must be observed.)
Training Requirement.	Yes, required including shippers	Yes, required including shippers	Necessary instruction must be given to the handling personnel but training is not a mandatory.
Acceptance Check by using check list (requirement for Airlines)	Yes, a full acceptance check by using normal check list is required.	Yes, a full acceptance check by using normal check list is required.	Not Required.
Shipper Built ULD	Must not be included in BUP	Must not be included in BUP	Can be included in BUP

Section IB

*** Until 31 MAR 2014**, the shipper may provide the information set out below on air waybill or on alternative transport documentation in lieu of using a Shipper's Declaration.

«The singular points of writing of Shipper's Declaration»

The **Gross weight** of each package must be shown.

The letter **"IB"** must be added following Packing Instruction number or must be added in Authorization column.

**** Additional requirements for other document** can be indicated in Additional Handling Information of the Shipper's Declaration or on the AWB or on the alternative transport document.

There are samples of DGD. please refer to attachments.

Note: NCA is not in a position to take any responsibility for the accuracy of the table above.

The IATA Dangerous Goods Regulations must be observed.