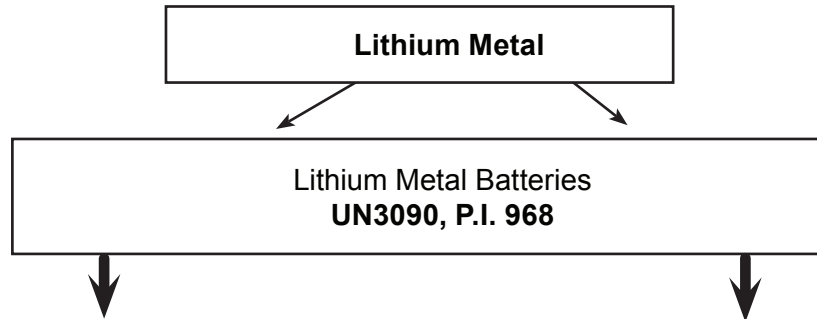


# LITHIUM METAL BATTERIES



## Section IA

Acceptable to dangerous goods locations Only.

Cells greater than 1g and Batteries with an aggregate lithium content in excess of 2g.<sup>1</sup>

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge

**Limit per package:**  
Must be CAO = 35kg

~ or ~

## Section IB

Acceptable to dangerous goods locations Only.

Cells equal to or less than 1g; and if batteries the aggregate lithium content is not more than 2g.<sup>1</sup>

- Shipper's Declaration required in net weight KG.
- IB on Shipper's Declaration after packing instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging.
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Completed Battery Mark (See Figure 2)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge

**Limit per package:**  
Must be CAO = 2.5kg

## Section II

- Must be offered as Section IA or IB.

<sup>1</sup> **AGGREGATE LITHIUM CONTENT** - The sum of the grams of lithium content contained by the cells comprising a battery. [IATA Appendix A]

FedEx does not provide these DG Labels. Customers may order these labels from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

Figure 1



**Class 9 - Lithium Batteries or Sodium Ion Batteries Label**

**NOTE:** No text other than the Class "9" must be included in the bottom part of the Class 9 - Lithium Batteries or Sodium Ion Batteries Label. IATA 7.2.2.4

Figure 2



**Battery Mark**

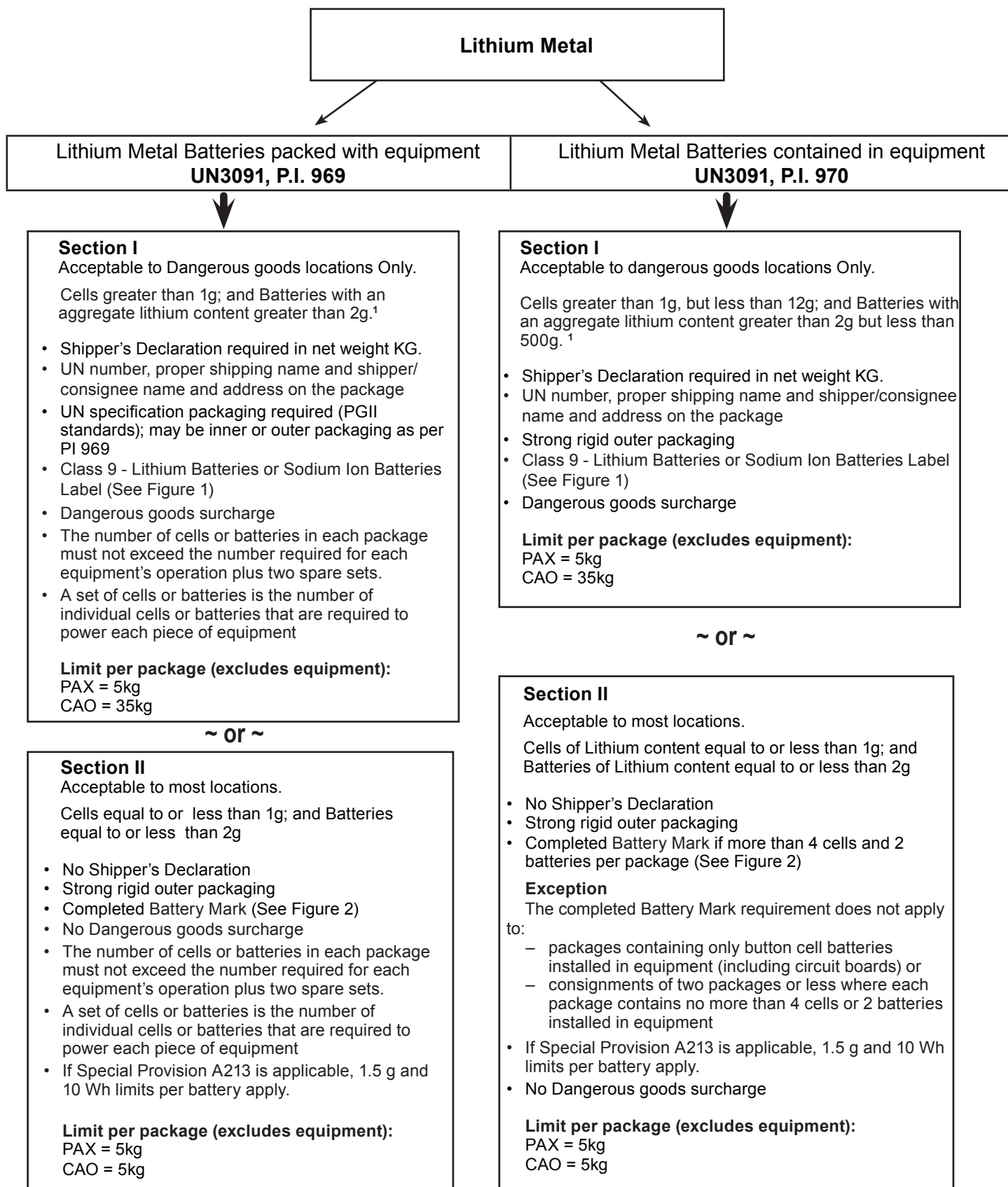
- \* Shipper must add UN number(s). It should be 12 mm high **AND**
- \*\* The phone number is optional until 31 December 2026.

Figure 3



**Cargo Aircraft Only Label**

# LITHIUM METAL BATTERIES



<sup>1</sup> **AGGREGATE LITHIUM CONTENT** - The sum of the grams of lithium content contained by the cells comprising a battery. [IATA Appendix A]

# LITHIUM ION BATTERIES

Lithium Ion

Lithium Ion Batteries  
UN3480, P.I. 965

## Section IA

Acceptable to dangerous goods locations Only.

Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

**Limit per package:**  
CAO = 35kg

~ or ~

## Section IB

Acceptable to dangerous goods locations Only.

Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

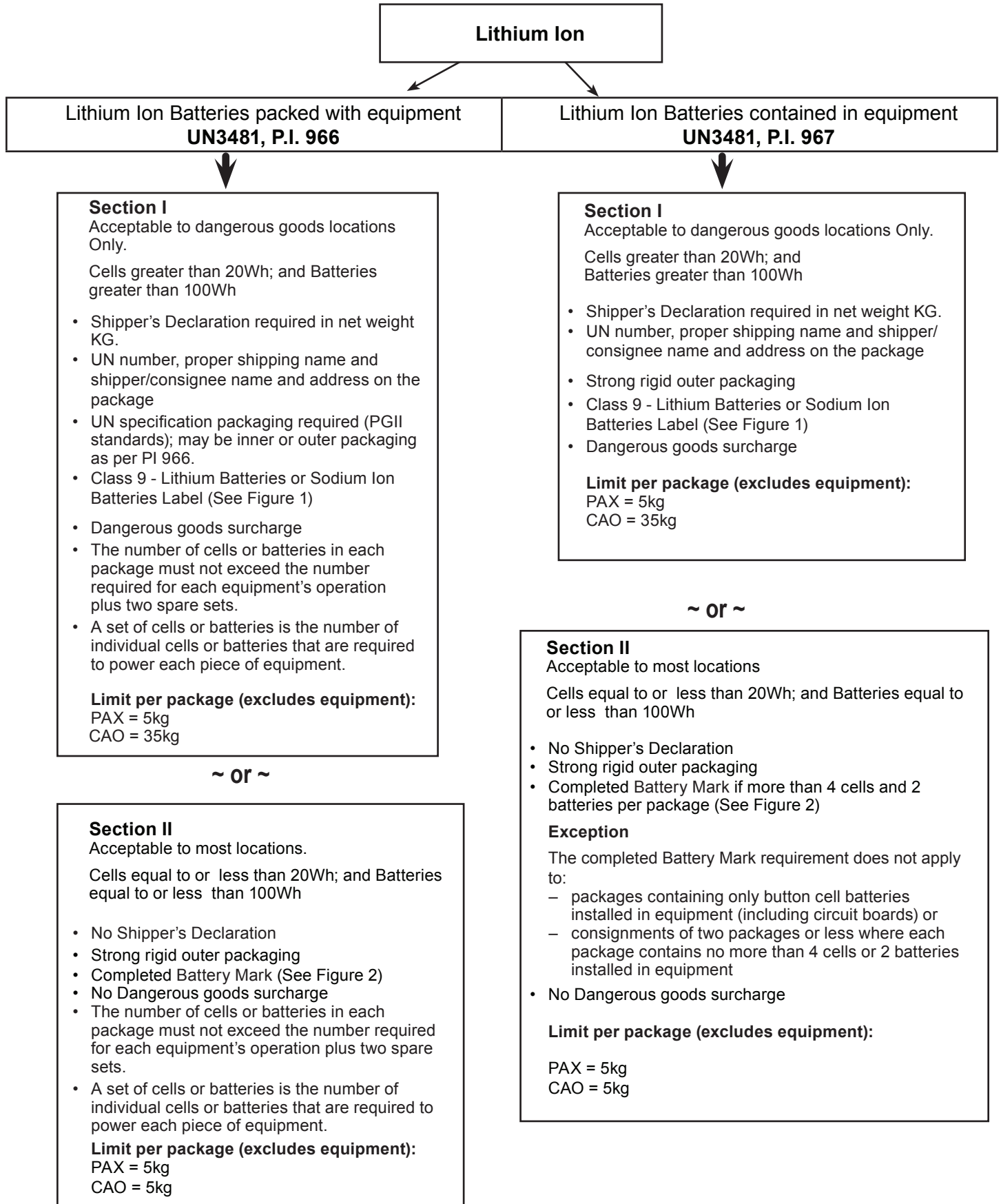
- Shipper's Declaration required in net weight KG.
- IB on Shippers Declaration after packing Instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Completed Battery Mark (See Figure 2)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

**Limit per package:**  
CAO = 10kg

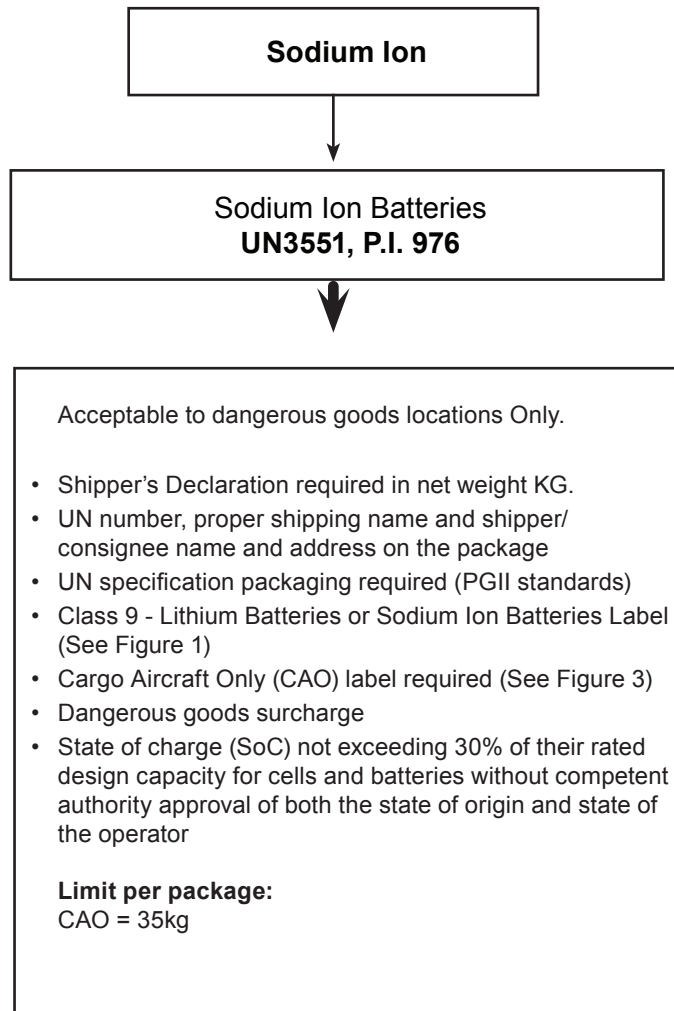
## Section II

- Must be offered as Section IA or IB.

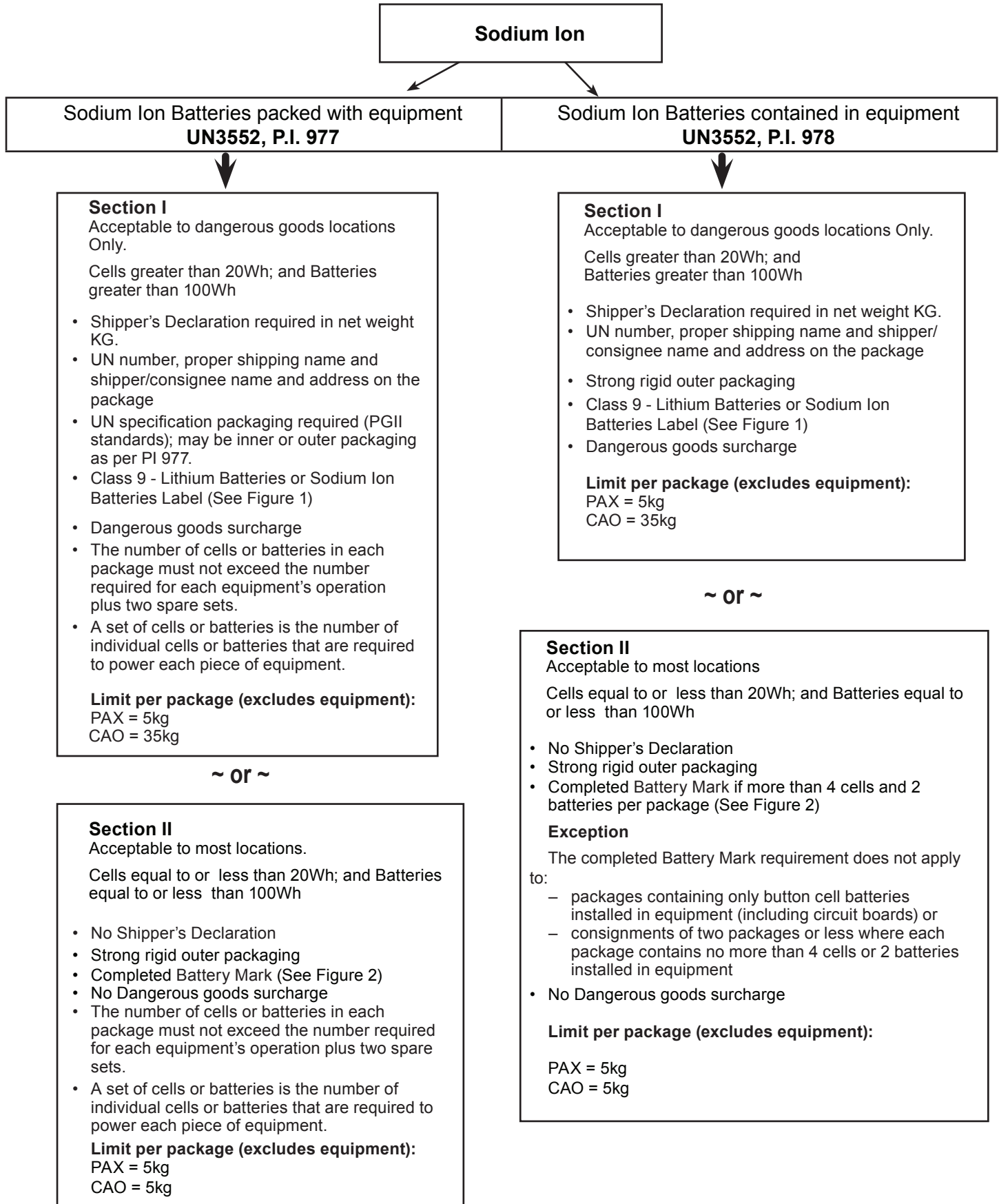
# LITHIUM ION BATTERIES



# SODIUM ION BATTERIES



# SODIUM ION BATTERIES



## Note:

- FedEx will not accept any item with an A183 Special Provision, even with a Competent Authority approval unless specifically preapproved. [FX-04E]
- All Batteries (Lithium or Sodium) (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package with the following Hazard Classes/Divisions:  
1.4, 2.1, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 8, or 2.2 with a Cargo Aircraft Only label. This includes All Packed in One and Overpacks.  
**Exception:** Packages that contain devices (such as temperature control devices) containing Section II lithium/sodium batteries that do not require the battery mark according to Packing Instruction 967, 970, 977 or 978 can be shipped with the classes/divisions above; however the shipper must not select UN 3481, PI967, UN 3091, PI970 or UN 3552, PI978 in the FedEx shipping automation system. (ELB must not appear on the automation label.) [FX-05B]
- Shippers sending any data loggers or data monitors (other than FedEx SenseAware) require pre-approval. Contact your Worldwide Account Manager (WAM) to initiate the process. If you do not have a WAM, you may contact your sales or account manager. Devices are approved by manufacturer and model number, and a shipper may request the approval. You may contact your WAM, Sales or Account Manager to determine if your device is approved. [FX-05C]
- Small battery-powered vehicles will only be accepted from companies when new and in unopened original packaging. Used, refurbished self-balancing vehicle shipments from individuals, resellers, and third-party shipments will not be accepted. Examples of small battery-powered vehicles subject to this variation include:
  - Hoverboards
  - Self-balancing scooters
  - Unicycle scooters and one-wheeled personal transport vehicles [FX-04F]
- All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process. [FX-05A]
- Call FedEx customer service and ask for the International Hotline/ Specialist to check on commodity acceptability for international shipments
- Select ELB in your FedEx automation device, if selection is available for any Section II UN3091 or UN3481 required to be labeled with the Battery Mark



**Class 9 Miscellaneous Dangerous Goods Hazard Label**

The Class 9 label **cannot** be used as the hazard label for Section I/IA/IB shipments effective 01/01/19.

The Class 9 - Lithium Batteries or Sodium Ion Batteries Label must be used instead.



**Lithium Battery Label**

**Obsolete effective 01/01/19**

If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDEx and press "81" or say dangerous goods. Press "4" to reach next available agent. If calling from outside the U.S. call (901) 375-6806 and press "4"

## DISCLAIMER:

This guide is based upon the 2025 IATA Dangerous Goods Regulations and provides a general overview of battery shipping requirements. It does not provide complete shipping information. Consult the packing instruction and all applicable Special Provisions for the product being shipped.

These materials are provided as a courtesy, to be used as guidelines to assist properly trained shippers. These materials do not alter, satisfy, or influence any governmental requirements. The contents of these materials are subject to change due to constant changes in government regulations. FedEx accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.



# Battery Mark

Figure 2



This mark can be printed in color, completed as shown in the example on the right, and affixed to the package. When printing, be sure to select "No" for "Expand/reduce page."

Please understand that FedEx Express accepts no liability for loss or damage caused by using this data.

## 【Minimum size】

The mark must be in the form of a rectangle with hatched edging.

The mark must be a minimum dimension of 100 mm wide × 100 mm high, and the minimum width of the hatching must be 5 mm. If the size of the package so requires, the dimensions/line thickness may be reduced to not less than 100 mm wide × 70 mm high.

## 【Color】

The hatching must be red.

The symbol must be black on white or suitable contrasting background.

## 【Markings on the lithium battery mark】

The mark must indicate as below:

- **The appropriate UN number preceded by the letters "UN", and it should be at least 12mm high**

- "UN3090" for lithium metal cells or batteries;
- "UN3480" for lithium ion cells or batteries;
- "UN3091" for lithium metal cells or batteries contained in, or packed with, equipment;
- "UN3481" for lithium ion cells or batteries contained in, or packed with, equipment; or
- "UN3552" for sodium ion cells or batteries contained in, or packed with, equipment.
- Where a package contains lithium cells or batteries assigned to different UN numbers, all applicable UN numbers must be indicated on one or more marks.

- **A telephone number for additional information (Optional)**

The telephone number required on the lithium battery mark can be a 24-hour monitored number, or other normal office hour number provided a person knowledgeable of the lithium batteries being shipped is readily available. The telephone number must start with the country code.

## Example



## 【On your Air Waybill】

Where a consignment includes packages bearing the battery mark for Section II, the words must be included on the air waybill as below:

- "Lithium metal batteries in compliance with Section II of PI969" for UN3091 lithium metal cells or batteries packed with equipment;
- "Lithium metal batteries in compliance with Section II of PI970" for UN3091 lithium metal cells or batteries contained in equipment;
- "Lithium ion batteries in compliance with Section II of PI966" for UN3481 lithium ion cells or batteries packed with equipment;
- "Lithium ion batteries in compliance with Section II of PI967" for UN3481 lithium ion cells or batteries contained in equipment;
- "Sodium ion batteries in compliance with Section II of PI977" for UN3552 sodium ion cells or batteries packed with equipment;
- "Sodium ion batteries in compliance with Section II of PI978" for UN3552 sodium ion cells or batteries contained in equipment.

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