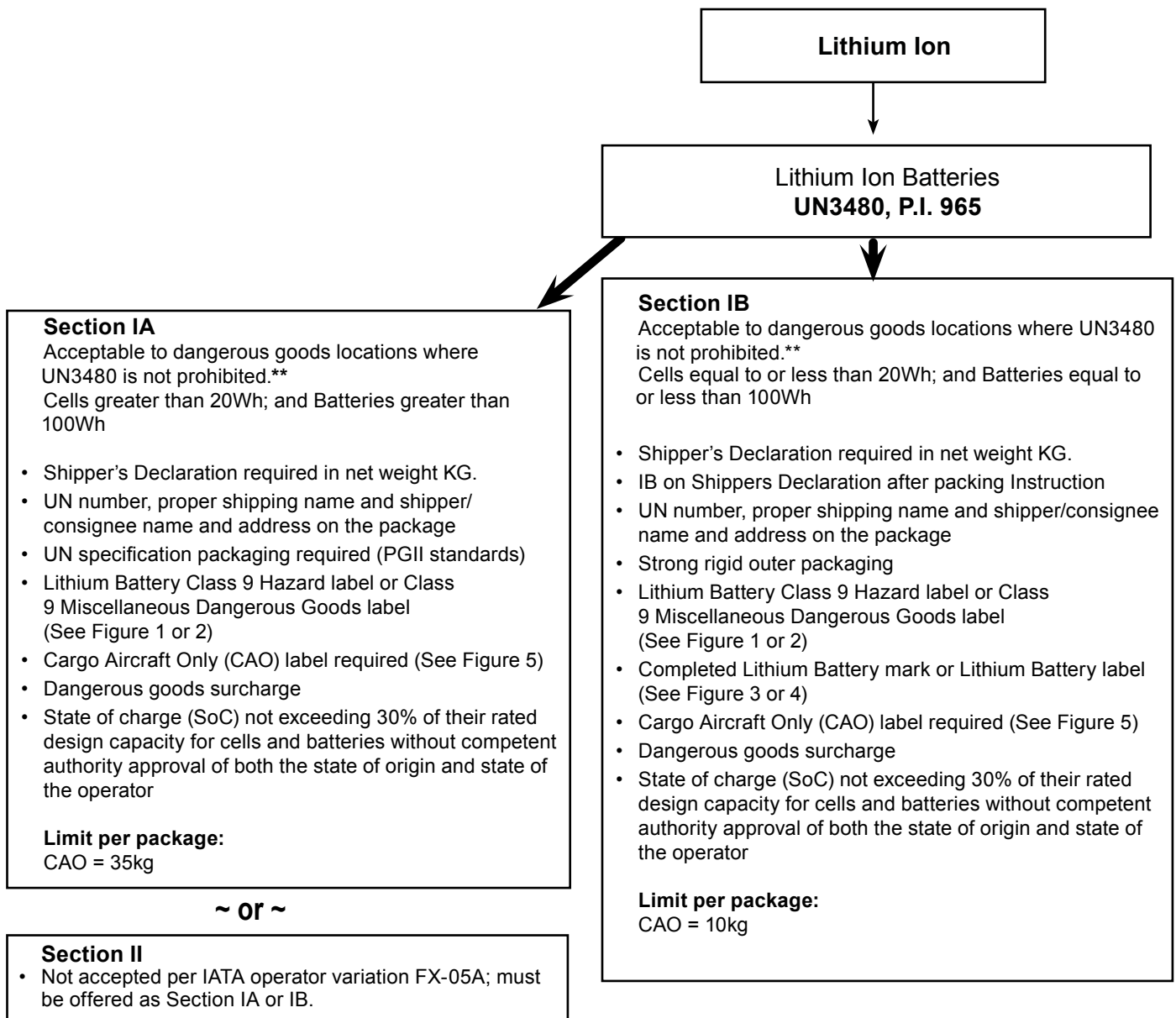


# LITHIUM ION BATTERIES

**Note:**

- FedEx Express will not accept any item with an A183 Special Provision, even with a Competent Authority approval. [FX-04E]
  - Lithium Batteries (Section I/IA/IB and Section II) 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: If the only lithium batteries are those contained in temperature control devices and the lithium batteries are Section II. The package must also not require the lithium battery mark or lithium battery handling label and ELB (FedEx Express DG handling code for Section II batteries) must not be selected in the automation device. [FX-05C]
  - Call FedEx customer service and ask for the International Hotline/ Specialist to check on commodity acceptability for international shipments
- \*\* Check: [http://images.fedex.com/us/services/pdf/LithiumBatteries\\_Limitations.pdf](http://images.fedex.com/us/services/pdf/LithiumBatteries_Limitations.pdf)



FedEx Express 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).

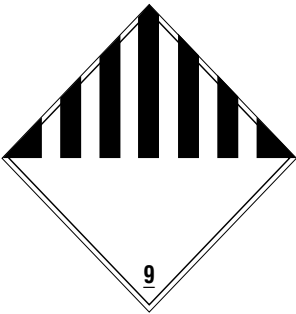


Lithium Battery Class 9 Hazard Label

Figure 1



Figure 5



Class 9 Miscellaneous Dangerous Goods Hazard Label

Figure 2



Lithium Battery Mark

Figure 3

Shipper must add UN number(s). It should be 12 mm high **AND**

Shipper must complete phone number portion of label.



Lithium Battery Label

Figure 4

"Lithium ion battery" OR "Lithium metal battery" **AND**

Shipper must complete phone number portion of label. **AND**

Mark the UN number(s) on the package adjacent to the label per FX-05D.

# LITHIUM ION BATTERIES

Effective January 5, 2018

## Lithium Ion



**Section I**  
 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)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

**Limit per package:**  
 PAX = 5kg  
 CAO = 35kg

**Section I**  
 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
- Strong rigid outer packaging
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Dangerous goods surcharge

**Limit per package:**  
 PAX = 5kg  
 CAO = 35kg

~ or ~

**Section II**  
 Acceptable to most locations.  
 Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- When the lithium battery label (Figure 4) is used, the UN number must be on the package adjacent to the label.
- No Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

**Limit per package:**  
 PAX = 5kg  
 CAO = 5kg

**Section II**  
 Acceptable to most locations  
 Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

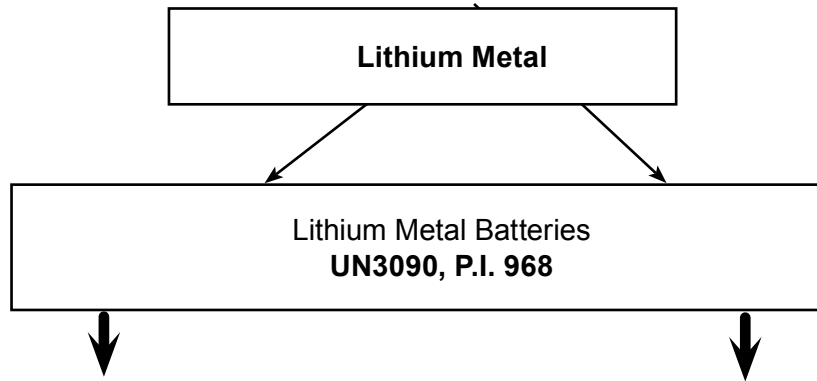
- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Lithium Battery mark or Lithium Battery label if more than 4 cells and 2 batteries per package (See Figure 3 or 4)
- When the lithium battery label (Figure 4) is used, the UN number must be on the package adjacent to the label.

**Exception**  
 This requirement does not apply to:

- packages containing only button cell batteries installed in equipment (including circuit boards) or
- consignments of two packages or less where each package contains no more than 4 cells or 2 batteries installed in equipment

- No Dangerous goods surcharge

**Limit per package:**  
 PAX = 5kg  
 CAO = 5kg



**Section IA**  
Acceptable to dangerous goods locations where UN3090 is not prohibited.\*\*  
Cells greater than 1g and Batteries greater than 2g

- 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)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)

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

**Section IB**  
Acceptable to dangerous goods locations where UN3090 is not prohibited.\*\*  
Cells equal to or less than 1g; and Batteries equal to or less than 2g

- 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.
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)
- Dangerous goods surcharge

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

~ Or ~

**Section II**

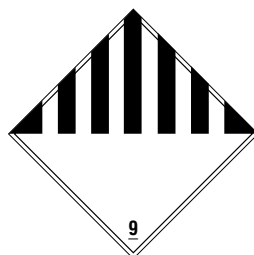
- Not accepted per IATA operator variation FX-05A; must be offered as Section IA or IB.

FedEx Express 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).



Lithium Battery Class 9 Hazard Label

Figure 1



Class 9 Miscellaneous Dangerous Goods Hazard Label

Figure 2



Lithium Battery Mark

Figure 3

Shipper must add UN number(s). It should be 12 mm high **AND**

Shipper must complete phone number portion of label.



Lithium Battery Label

Figure 4

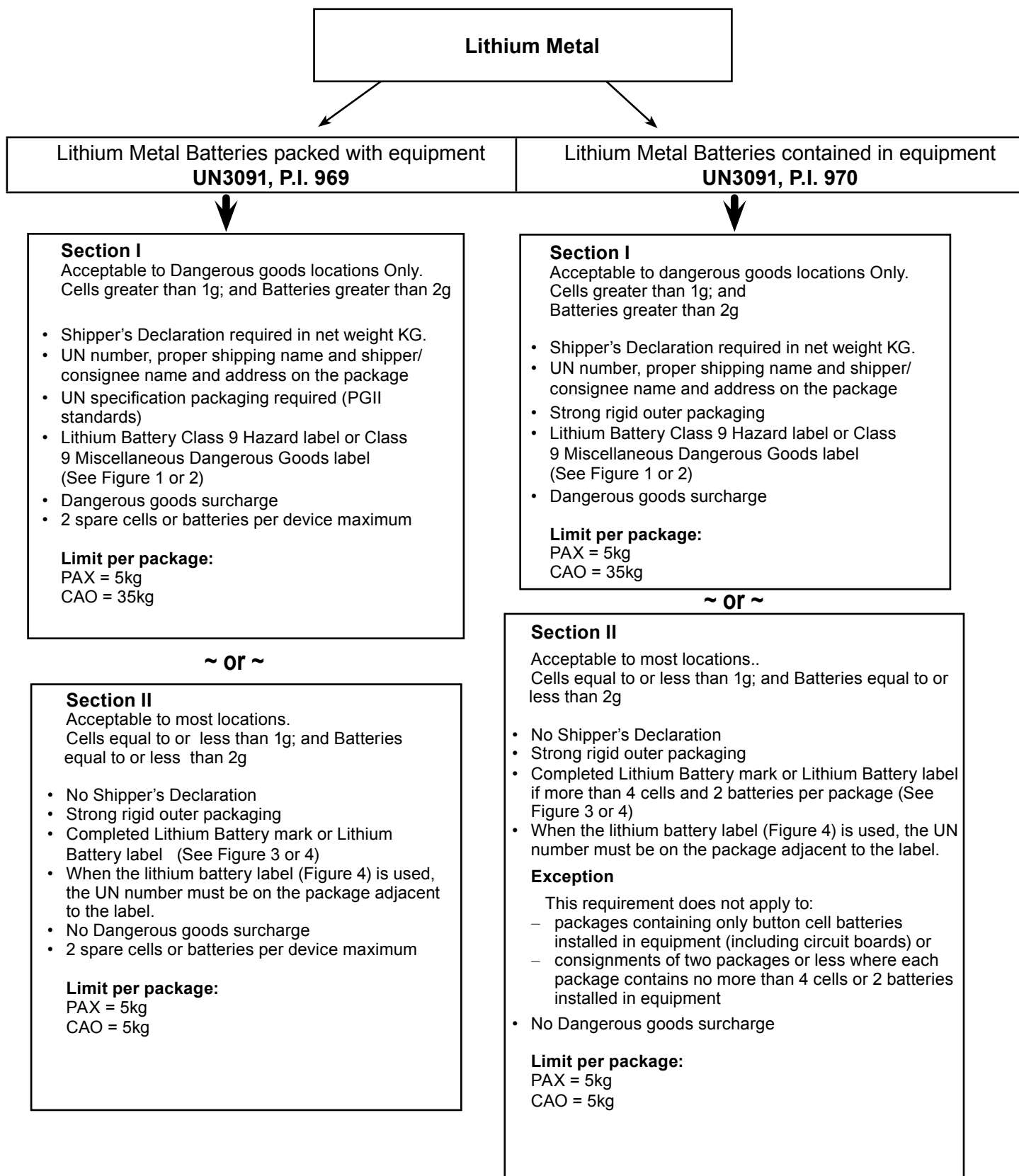
"Lithium ion battery" OR "Lithium metal battery" **AND**

Shipper must complete phone number portion of label. **AND**

Mark the UN number(s) on the package adjacent to the label per FX-05D.



Figure 5



If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDX and press "81" or say dangerous goods. Press "4" to reach next available agent.

**DISCLAIMER:**

This guide is based upon the 2018 "IATA Dangerous Goods Regulations" and provides a general overview of lithium 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 Express accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.