

# HAZMATEAM



## 2026 LITHIUM AND SODIUM ION BATTERY SHIPPING GUIDE



February 9, 2026

The following guide provides a summary of marking, labeling and paperwork requirements for shipping lithium and sodium ion batteries via domestic US ground (49 CFR 171-180 in effect 9-FEB-2026), international air (2026 IATA DGR, 67<sup>th</sup> Edition), international vessel (IMDG, 42-24) and US Mail (Postal Service Publication 52). Refer to the regulatory citations provided, country specific regulations and/or operator variations for complete requirements. Employees who perform any pre-transportation functions must have current training certificates. Also see: [DISCLAIMER](#)

This guide will be updated as lithium and sodium ion battery regulations change. Please check [www.hazmateam.com](http://www.hazmateam.com) for the most current version of this document.

***TO GET STARTED, CLICK ON THE HOME ICON:***





**IS MY LITHIUM OR SODIUM ION CELL OR BATTERY UN TESTED?**

**WHAT SIZE IS MY LITHIUM ION (RECHARGEABLE) CELL/BATTERY?**

**WHAT SIZE IS MY LITHIUM METAL (NON-RECHARGEABLE) CELL/BATTERY?**

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# IS MY LITHIUM CELL OR BATTERY UN TESTED?

## **IMPORTANT CLASSIFICATION REQUIREMENT**

Except for prototype batteries, each lithium cell or battery (small, medium or fully regulated) must be of the type proven to meet the criteria in part III, sub-section 38.3 of the UN Manual of Tests and Criteria. The same requirements apply to sodium ion cells and batteries with organic electrolyte. Lithium cells and batteries are subject to these tests regardless of whether the cells used to construct the battery are of a tested type.

[Refer to 49 CFR 173.185 \(a\)](#), IATA 3.9.2.6, IATA 3.9.2.7, IMDG 2.9.4. and IMDG 2.9.5.

Lithium battery test summary – effective 1 January 2020, manufacturers and subsequent distributors of cells or batteries and equipment powered by cells and batteries manufactured after 30 June 2003 must make available the test summary as specified in the UN Manual of Tests and Criteria, Revision 6 and amend. 1, Part III, sub-section 38.3, paragraph 38.3.5.

For prototypes see [49 CFR 173.185 \(e\)](#), IMDG PI P910 and IATA SP A88. Prototype batteries must be shipped fully regulated.

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**NAVIGATE (CLICK):**



# LITHIUM ION CELL & BATTERY SIZE DEFINITIONS

(Lithium Ion Cells and Batteries are Rechargeable; Also called “secondary” batteries)

SIZE & TYPE	AIR TRANSPORT	VESSEL TRANSPORT	DOMESTIC USA GROUND TRANSPORT
	 MAXIMUM WATT HOUR RATING	 MAXIMUM WATT HOUR RATING	 MAXIMUM WATT HOUR RATING
SMALL CELL	20 WH	20 WH	20 WH
SMALL BATTERY	100 WH	100 WH	100 WH
MEDIUM CELL	Not applicable to air transport	Not applicable to vessel transport	60 WH
MEDIUM BATTERY	Not applicable to air transport	Not applicable to vessel transport	300 WH
FULLY REGULATED CELL	> 20 WH	> 20 WH	> 60 WH
FULLY REGULATED BATTERY	> 100 WH	> 100 WH	> 300 WH

**“Hybrid” Batteries:** containing both lithium ion cells and lithium metal cells must be shipped as UN 3090 or UN 3091, as appropriate. See Lithium Metal Cell & Battery Size Definitions.

**Prototype Cells and Batteries (not UN tested):** must be shipped Fully Regulated regardless of watt hour rating of battery/cell.

These size definitions do not apply to **UN 3171, Battery-Powered Vehicles** or **UN 3556, Vehicle, Lithium Ion Battery Powered**.

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**NAVIGATE (CLICK):**



# LITHIUM METAL CELL & BATTERY SIZE DEFINITIONS

(Lithium Metal Cells and Batteries are Non-Rechargeable; Also called “primary” batteries)

SIZE & TYPE	AIR TRANSPORT	VESSEL TRANSPORT	DOMESTIC USA GROUND TRANSPORT
	 MAXIMUM AGGREGATE LITHIUM CONTENT <sup>2</sup>	 MAXIMUM AGGREGATE LITHIUM CONTENT <sup>2</sup>	 MAXIMUM AGGREGATE LITHIUM CONTENT <sup>2</sup>
SMALL CELL	1 GRAM	1 GRAM	1 GRAM
SMALL BATTERY	2 GRAMS <sup>1</sup>	2 GRAMS <sup>1</sup>	2 GRAMS <sup>1</sup>
MEDIUM CELL	Not applicable to air transport	Not applicable to vessel transport	5 GRAMS
MEDIUM BATTERY	Not applicable to air transport	Not applicable to vessel transport	25 GRAMS
FULLY REGULATED CELL	> 1 GRAM	> 1 GRAM	> 5 GRAMS
FULLY REGULATED BATTERY	> 2 GRAMS	> 2 GRAMS	> 25 GRAMS

**“Hybrid” Batteries:** containing both lithium ion cells and lithium metal cells must be shipped as UN 3090 or UN 3091, as appropriate. Note 1 - A small “hybrid” battery may not contain more than 1.5 g of lithium metal contained within all lithium metal cells and the total capacity of all lithium ion cells contained in the battery shall not exceed 10 Wh. “Hybrid” batteries are not externally charged.

**Prototype Cells and Batteries (not UN tested):** must be shipped Fully Regulated regardless of lithium metal content per battery/cell.

Note 2 - **Aggregate lithium content:** the sum of the grams of lithium content contained by the cells comprising a battery.

These size definitions do not apply to **UN 3171, Battery-Powered Vehicles** or **UN 3557, Vehicle, Lithium Metal Battery Powered**.

**NAVIGATE (CLICK):**



# SODIUM ION CELL & BATTERY SIZE DEFINITIONS<sup>3</sup>

(Sodium Ion Cells and Batteries contain organic electrolyte which are Rechargeable)

SIZE & TYPE	AIR TRANSPORT	AIR TRANSPORT	VESSEL TRANSPORT	DOMESTIC USA GROUND TRANSPORT <sup>1</sup>
	 <b>UN 3551<sup>2</sup></b>	 <b>UN 3552<sup>2</sup></b>	 	 
		MAXIMUM WATT HOUR RATING	MAXIMUM WATT HOUR RATING	MAXIMUM WATT HOUR RATING
SMALL CELL	All UN 3551, must be shipped fully regulated	20 WH	20 WH	20 WH
SMALL BATTERY	All UN 3551 must be shipped fully regulated	100 WH	100 WH	100 WH
FULLY REGULATED CELL	ALL UN 3551, SODIUM ION CELLS MUST BE SHIPPED FULLY REGULATED	> 20 WH	> 20 WH	> 20 WH
FULLY REGULATED BATTERY	ALL UN 3551, SODIUM ION BATTERIES MUST BE SHIPPED FULLY REGULATED	> 100 WH	> 100 WH	> 100 WH

**1** - As of publication date, DOT PHMSA has not addressed ground requirements for Sodium Ion Batteries.

However, a December 9, 2024 PHMSA Notice allows ground shipments of sodium ion batteries to follow IMDG Code requirements. Therefore, ground size definitions are based on IMDG Code SP 188.

**2 - UN 3551:** Sodium Ion Batteries (no equipment); **UN 3552:** Sodium Ion Batteries Packed with/contained in equipment

**3** - Sodium-ion batteries with aqueous alkali electrolyte must be transported as UN 2795 Batteries, wet , filled with alkali. UN 2795 is not addressed in this Guide.

**4** - ALL Prototype Cells and Batteries (not UN tested): must be shipped Fully Regulated..

**5** - These size definitions do not apply to UN 3558, Vehicle, Sodium Ion Battery Powered .

**NAVIGATE (CLICK):**



# SMALL LITHIUM ION CELL/BATTERY REQUIREMENTS

PACKAGE OF SMALL LITHIUM ION CELLS/BATTERIES	MODE (CLICK):		
BATTERIES ONLY			
BATTERIES CONTAINED IN EQUIPMENT * (INSTALLED)			
BATTERIES PACKED WITH EQUIPMENT*			

- *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

**NAVIGATE (CLICK):**



[WHAT SIZE IS MY LITHIUM ION  
\(RECHARGEABLE\)  
CELL/BATTERY?](#)

**MEDIUM<sup>1</sup> LITHIUM ION  
CELL/BATTERY  
REQUIREMENTS**

<b>PACKAGE OF MEDIUM LITHIUM ION CELLS/BATTERIES</b>	<b>MODE (CLICK):</b>
<b>BATTERIES ONLY</b>	
<b>BATTERIES CONTAINED IN EQUIPMENT <sup>2</sup> (INSTALLED)</b>	
<b>BATTERIES PACKED WITH EQUIPMENT <sup>2</sup></b>	

**\*NOTES:**

**1) MEDIUM BATTERIES IS A DESIGNATION FOR GROUND DOMESTIC USA ONLY**

**2) *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation**

**NAVIGATE (CLICK):**



**[WHAT SIZE IS MY LITHIUM ION  
\(RECHARGEABLE\)  
CELL/BATTERY?](#)**

# FULLY REGULATED LITHIUM ION CELL/BATTERY REQUIREMENTS

<p>PACKAGE OF FULLY REGULATED LITHIUM ION CELLS/BATTERIES</p>	<p>MODE (CLICK):</p>		
<p>BATTERIES ONLY</p>			
<p>BATTERIES CONTAINED IN EQUIPMENT * (INSTALLED)</p>			
<p>BATTERIES PACKED WITH EQUIPMENT *</p>			

- *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

NAVIGATE (CLICK):



[WHAT SIZE IS MY LITHIUM ION \(RECHARGEABLE\) CELL/BATTERY?](#)

# SMALL LITHIUM METAL CELL/BATTERY REQUIREMENTS

PACKAGE OF SMALL LITHIUM METAL CELLS/BATTERIES	MODE (CLICK):		
BATTERIES ONLY			
BATTERIES CONTAINED IN EQUIPMENT * (INSTALLED)			
BATTERIES PACKED WITH EQUIPMENT *			

- *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

NAVIGATE (CLICK):



[WHAT SIZE IS MY LITHIUM METAL  
\(NON-RECHARGEABLE\)  
CELL/BATTERY?](#)

# MEDIUM<sup>1</sup> LITHIUM METAL CELL/BATTERY REQUIREMENTS

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<p><b>PACKAGE OF MEDIUM LITHIUM METAL CELLS/BATTERIES</b></p>	<p><b>MODE (CLICK):</b></p>
<p><b>BATTERIES ONLY</b></p>	
<p><b>BATTERIES CONTAINED IN EQUIPMENT <sup>2</sup> (INSTALLED)</b></p>	
<p><b>BATTERIES PACKED WITH EQUIPMENT<sup>2</sup></b></p>	

**NOTES:**

**1) MEDIUM BATTERIES IS A DESIGNATION FOR GROUND DOMESTIC USA ONLY;**

**2) Equipment** means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

**NAVIGATE (CLICK):**



**WHAT SIZE IS MY LITHIUM METAL  
(NON-RECHARGEABLE)  
CELL/BATTERY?**

# FULLY REGULATED LITHIUM METAL CELL/BATTERY REQUIREMENTS

<p>PACKAGE OF FULLY REGULATED LITHIUM METAL CELLS/BATTERIES</p>	<p>MODE (CLICK):</p>		
<p>BATTERIES ONLY</p>			
<p>BATTERIES CONTAINED IN EQUIPMENT (INSTALLED)</p>			
<p>BATTERIES PACKED WITH EQUIPMENT</p>			

NAVIGATE (CLICK):



[WHAT SIZE IS MY LITHIUM METAL \(NON-RECHARGEABLE\) CELL/BATTERY?](#)

# SMALL SODIUM ION CELL/BATTERY REQUIREMENTS

<p><b>PACKAGE OF SMALL SODIUM ION CELLS/BATTERIES</b></p>	<p><b>MODE (CLICK):</b></p>		
<p><b>BATTERIES ONLY</b></p>			<p><b>NO SMALL BATTERY EXCEPTION FOR UN 3551 VIA AIR TRANSPORT</b></p>
<p><b>BATTERIES CONTAINED IN EQUIPMENT * (INSTALLED)</b></p>			
<p><b>BATTERIES PACKED WITH EQUIPMENT *</b></p>			

- *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

**NAVIGATE (CLICK):**



[WHAT SIZE IS MY SODIUM ION \(RECHARGEABLE\) CELL/BATTERY?](#)

# FULLY REGULATED SODIUM ION CELL/BATTERY REQUIREMENTS

<p><b>PACKAGE OF FULLY REGULATED SODIUM ION CELLS/BATTERIES</b></p>	<p><b>MODE (CLICK):</b></p>		
<p><b>BATTERIES ONLY</b></p>			
<p><b>BATTERIES CONTAINED IN EQUIPMENT (INSTALLED)</b></p>			
<p><b>BATTERIES PACKED WITH EQUIPMENT</b></p>			

**NAVIGATE (CLICK):**



[WHAT SIZE IS MY SODIUM ION  
\(RECHARGEABLE\)  
CELL/BATTERY?](#)

## “VEHICLE, ... BATTERY POWERED”

*UN 3171, Battery-Powered Vehicle, UN 3556, Vehicle, Lithium Ion Battery Powered, UN 3557, Vehicle, Lithium Metal Battery Powered and UN 3558, Sodium Ion Battery Powered* are self-propelled apparatus designed to carry one or more persons or goods. In this case some parts of the vehicle may be detached from its frame to fit into the packaging. Reference: 49 CFR 172.102, SP 134.

The information provided in this guide applies to vehicles powered only by a lithium ion, lithium metal or sodium ion battery. If the vehicle is powered by other battery types or fuels, refer to 49 CFR 173.220, IMDG SP 388 or IATA SP A214, as applicable.

The battery must be UN 38.3 tested and installed in the vehicle. The battery must not be damaged or defective.

If battery is not installed, must ship as “UN 3091, Lithium Metal Batteries Packed with Equipment”, UN 3481, Lithium Ion Batteries Packed with Equipment” or UN 3552, Sodium Ion Battery Packed with Equipment, as applicable.

There is no battery size designation (small, medium or fully regulated) for these entries.

VEHICLE, ... BATTERY POWERED	MODE (CLICK):		
<p><b>Examples:</b></p> <ul style="list-style-type: none"><li>• Bicycles (pedal cycles with electric motor)</li><li>• Wheelchairs</li><li>• Lawn tractors</li><li>• Robots used to move goods</li></ul>			

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BATTERIES – NO EQUIPMENT



- **LITHIUM ION BATTERIES, UN 3480**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT
- SHIPPABLE VIA US POSTAL SERVICE: [YES, CLICK HERE FOR REQUIREMENTS](#)

### ANY OF THE FOLLOWING ARE ALLOWED:



*Address label optional*



*Address label optional*



*Address label optional*

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

### NAVIGATE (CLICK):



## SMALL LITHIUM ION BATTERIES – NO EQUIPMENT



- **LITHIUM ION BATTERIES, UN 3480**
- UNITED STATES MAIL
- BATTERY SIZE: SMALL ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO

### U.S. MAIL

UN 3480 is prohibited for all international mail.

UN 3480 is prohibited for domestic air transport.

Allowed packages must not exceed 5 pounds gross weight.

Outer packages must be rigid. Outer packaging rated at 200 lb. burst test or 32-edge crush test strength or equivalent, at minimum. Use of padded or poly bags are prohibited.

All outer packages must have a complete delivery and return address.

Damaged, defective, or recalled batteries (standalone) are prohibited unless approved by the director, USPS Product Classification.

### WHEN SHIPPED US MAIL:



*Address labels required*

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### REFERENCE:

USPS: Pub 52, 339.4, 349.2, PI 9D (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

### **NAVIGATE (CLICK):**



[RETURN TO SMALL UN 3480 VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

## SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- **LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF MORE THAN 5 KG NET PER PKG](#)



*Address label optional*

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



- **LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- UNITED STATES MAIL
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.

### US MAIL:

UN 3481, “packed with” is prohibited for all international mail.

Allowed for domestic surface and air mail (unless it is a Used, Damaged or Defective Electronic Device)

Small lithium ion batteries/cells are limited to a maximum of 8 cells or 2 batteries per package.

If package contains very small lithium ion batteries/cells (watt hour rating is 2.7 Wh or less), no quantity of battery/cell limit. But, package cannot exceed 5.5 pounds gross weight.

The package cannot contain more cells/batteries than the number needed to operate the device.

Outer packages must be rigid. If package weighs ≤ 20 pounds outer packaging must be rated at 200 lb. burst test or 32-edge crush test strength or equivalent, at minimum. If package weighs > 20 pounds outer packaging must be rated at 275 lb. burst test or 44-edge crush test strength or equivalent, at minimum. Poly or padded bags are prohibited.

Used, Damaged, or Defective Electronic Device: An electronic device containing or packaged with one or more lithium cells or batteries that, Is not new in original packaging; Is not manufacturer-certified new or refurbished; and/or Has some form of damage or defect is to be marked: “Restricted Electronic Device” and “Surface Mail Only” on the address side on the mailpiece.

All outer packages must have a complete delivery & return address.



© HAZMATEAM, INC. REFERENCE:

USPS: Pub 52, 339.4, 349.2, PI 9D (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

**NAVIGATE (CLICK):**



[RETURN TO SMALL UN 3481, LITHIUM ION BATTERIES PACKED WITH EQUIPMENT VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

# SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



NET WT OF SMALL BATTERIES PER PACKAGE IS GREATER THAN 5 KG

- **LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- [CLICK HERE IF NO MORE THAN 5 KG NET PER PACKAGE](#)

ANY OF THE FOLLOWING ARE ALLOWED:



Address label optional



Address label optional



Address label optional

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**





## SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF MORE THAN 5 KG NET PER PACKAGE](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED](#)
- [CLICK HERE IF LITHIUM ION BUTTON CELLS INSTALLED](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)



*Address label optional*



*Address label optional*



IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

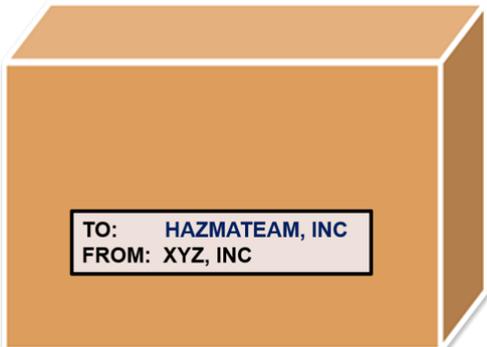
**NAVIGATE (CLICK):**





# SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- UNITED STATES MAIL
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.



IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

**US MAIL:**

Allowed for international mail (unless it is a Used, Damaged, or Defective Electronic Device).

Allowed for domestic surface and air mail (unless it is a Used, Damaged, or Defective Electronic Device).

Domestic: Small lithium ion batteries/cells are limited to a maximum of 8 cells or 2 batteries per package. If package contains very small lithium ion batteries/cells (watt hour rating is 2.7 Wh or less), no quantity of battery/cell limit. But, package cannot exceed 5.5 pounds gross weight.

International: 4 cells, 2 batteries maximum per package.

Use of padded or poly bags are permitted if the package does not require the lithium battery mark, provided they are within a secondary packaging (i.e., original manufacturer's box) that can withstand a 1.2-meter drop test before being placed inside the padded or poly bag. The lithium batteries are afforded adequate protection by the equipment/device.

If the lithium battery mark is required: Outer packages must be rigid. If package weighs ≤ 20 pounds, outer packaging rated at 200 lb. burst test or 32-edge crush test strength or equivalent, at minimum. If package weighs > 20 pounds, outer packaging rated at 275 lb. burst test or 44-edge crush test strength or equivalent, at minimum.

Used, Damaged, or Defective Electronic Device: An electronic device containing or packaged with one or more lithium cells or batteries that, is not new in original packaging; is not manufacturer-certified new or refurbished; and/or has some form of damage or defect is to be marked: "Restricted Electronic Device" and "Surface Mail Only" on the address side on the mailpiece.

All outer packages must have a complete delivery and return address.

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REFERENCE:

USPS: Pub 52, 339.4, 349.2, 622.5 (International); PI 9D and 9E (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

NAVIGATE (CLICK):



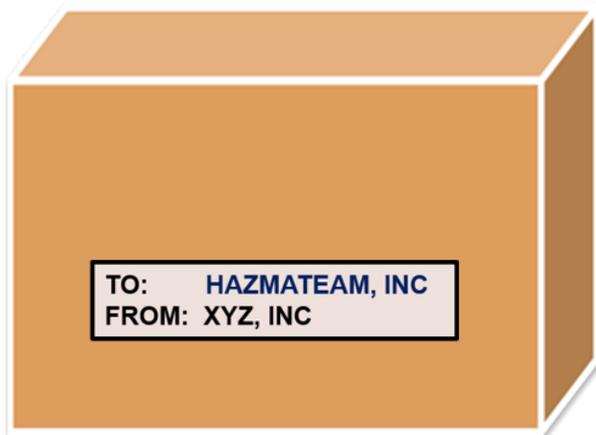
[RETURN TO SMALL UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

## SMALL LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT

NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, MUST NOT EXCEED 5 KG NET PER PKG
- [CLICK HERE IF SMALL LITHIUM ION BATTERY OTHER THAN BUTTON CELL INSTALLED](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)



*Address label optional*

Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

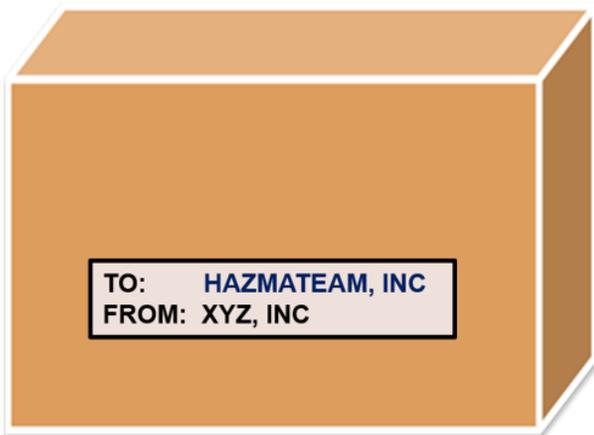
**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- UNITED STATES MAIL
- BATTERY SIZE: SMALL (UN Tested)
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO



### US MAIL:

Allowed for international mail (unless it is a Used, Damaged, or Defective Electronic Device)

Allowed for domestic surface and air mail (unless it is a Used, Damaged, or Defective Electronic Device).

Each button cell cannot exceed 2.7 Wh.

No limit to the quantity of cells per package. But, package cannot exceed 5.5 pounds gross weight.

Use of padded or poly bags are allowed if batteries are afforded adequate protection by the equipment.

**Used, Damaged, or Defective Electronic Device:** An electronic device containing or packaged with one or more lithium cells or batteries that, Is not new in original packaging; Is not manufacturer-certified new or refurbished; and/or Has some form of damage or defect is to be marked: "Restricted Electronic Device" and "Surface Mail Only" on the address side on the mailpiece.

All outer packages must have a complete delivery and return address.

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### REFERENCE:

USPS: Pub 52, 349.2, PI 9D and 9E (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

**NAVIGATE (CLICK):**



[RETURN TO SMALL UN 3481, LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)



## SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

NET WT OF BATTERIES PER PACKAGE NO MORE THAN 5 KG

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- [CLICK HERE IF MORE THAN 5 KG NET PACKAGE](#)
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)



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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT



NET WT OF BATTERIES PER PACKAGE GREATER THAN 5 KG

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED AND NO MORE THAN 5 KG PER PKG](#)
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED AND NO MORE THAN 5 KG PER PKG](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)

ANY OF THE FOLLOWING ARE ALLOWED:



Address label optional



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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

NAVIGATE (CLICK):

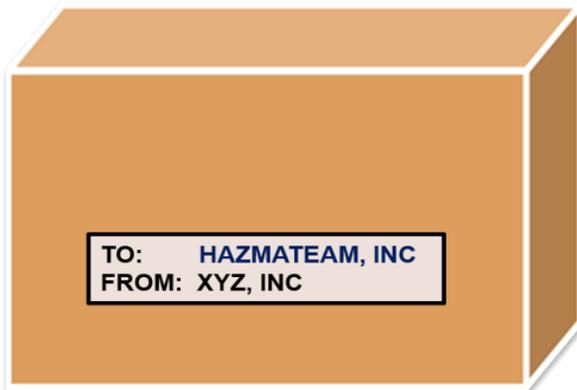


## TRACKING DEVICE WITH A SMALL LITHIUM ION BATTERY CONTAINED IN EQUIPMENT



## TRACKING DEVICE (SUCH AS A DATA LOGGER) ACTIVATED DURING GROUND/VESSEL TRANSPORT

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: SMALL;
- BATTERY/CELL INSTALLED
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- THE EQUIPMENT MUST BE IN USE OR INTENDED FOR USE DURING TRANSPORTATION, NOT AS CARGO.
- DEVICE IS NOT CAPABLE OF GENERATING A DANGEROUS EVOLUTION OF HEAT. WHEN ACTIVE, THESE DEVICES MUST MEET STANDARDS FOR ELECTROMAGNETIC RADIATION TO ENSURE THAT THE OPERATION OF THE DEVICE DOES NOT INTERFERE WITH AIRCRAFT SYSTEMS. THE DEVICES MUST NOT BE CAPABLE OF EMITTING DISTURBING SIGNALS (SUCH AS BUZZING ALARMS, STROBE LIGHTS).
- FOR VESSEL TRANSPORT, TRACKING DEVICES MUST BE SECURELY INSTALLED AND MUST BE OF A CERTIFIED SAFE TYPE FOR THE HAZARDOUS MATERIALS THAT WILL BE CARRIED WITHIN THE FREIGHT CONTAINER OR TRANSPORT VEHICLE IN WHICH SUCH AS DEVICE OR EQUIPMENT IS INSTALLED.



*Address label optional*

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REFERENCE:

DOMESTIC USA: 49 CFR 173.14, 176.76 (a)(9)

INTERNATIONAL VESSEL: IMDG PI 903, IMDG SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BATTERIES – NO EQUIPMENT (PI 965 SECTION IB)



- **LITHIUM ION BATTERIES, UN 3480**
- AIR TRANSPORT
- NO EQUIPMENT
- PACKAGE CONTAINS ≤ 10 KG net, SMALL LITHIUM ION BATTERIES ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED FOR AIR TRANSPORT IN US MAIL**



**Address label mandatory**

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION



CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING OR OVERPACK WITH CLASS 1 (OTHER THAN 1.4S), DIV 2.1, CLASS 3, DIV 4.1 or DIV 5.1

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**REFERENCE:**

DOMESTIC USA: 49 CFR 173.185 (c)(4)

INTERNATIONAL AIR: IATA PACKING INSTRUCTION 965, SECTION IB

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



- **LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- Air TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- **NO MORE THAN THE MINIMUM NUMBER OF BATTERIES TO POWER THE EQUIPMENT PLUS TWO SPARES.**
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- STATE OF CHARGE (SoC) **MUST NOT** EXCEED 30 % OF RATED DESIGN CAPACITY IF THE SIZE OF CELL OR BATTERY IS > 2.7 Wh. THE 30% MAXIMUM SoC IS **RECOMMENDED** IF  $\leq 2.7$  Wh
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)



*Address label optional*

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REFERENCE:

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 966, SECTION II

**NAVIGATE (CLICK):**

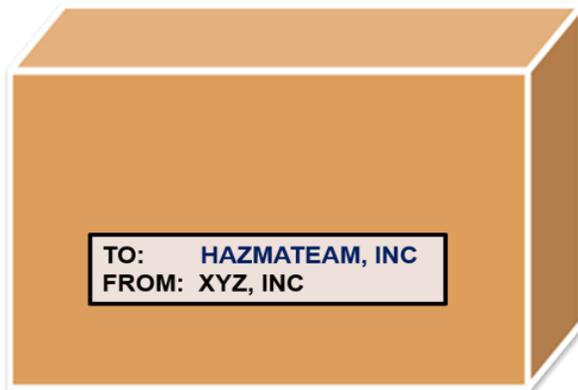


## SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT



NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- Air TRANSPORT (Battery installed)
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- **LIMIT:** NO MORE THAN 4 LITHIUM ION CELLS OR 2 LITHIUM ION BATTERIES ARE INSTALLED OR IF BUTTON CELL BATTERIES ARE INSTALLED.
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- STATE OF CHARGE **SHOULD NOT** EXCEED 30 % OF RATED DESIGN CAPACITY (NOT MANDATORY)
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\)](#)
- [CLICK HERE IF SHIPPING BUTTON CELLS INSTALLED IN EQUIPMENT](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)



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IF SHIPPING ONE OR TWO PACKAGES  
ACCORDING TO PI 967, SECTION II

IF SHIPPING MORE THAN TWO PACKAGES  
ACCORDING TO PI 967, SECTION II

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**REFERENCE:**

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



NO MORE THAN 5 KG NET QTY OF BUTTON CELLS INSTALLED PER PKG

- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- AIR TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO
- AIR WAYBILL IS NOT REQUIRED WHEN THE BATTERY MARK IS NOT REQUIRED
- BUTTON CELL INSTALLED IN EQUIPMENT
- STATE OF CHARGE **SHOULD NOT** EXCEED 30 % OF RATED DESIGN CAPACITY (NOT MANDATORY)
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, CANNOT EXCEED 5 KG NET PER PACKAGE
- [CLICK HERE IF SMALL LITHIUM ION BATTERIES OTHER THAN BUTTON CELLS CONTAINED IN EQUIPMENT](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)



*Address label optional*

Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

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REFERENCE:

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II

**NAVIGATE (CLICK):**



## SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

### MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- Air TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY IS INSTALLED.
- STATE OF CHARGE **SHOULD NOT** EXCEED 30 % OF RATED DESIGN CAPACITY (NOT MANDATORY)
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM ION BATTERY](#)



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REFERENCE:

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4))

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II

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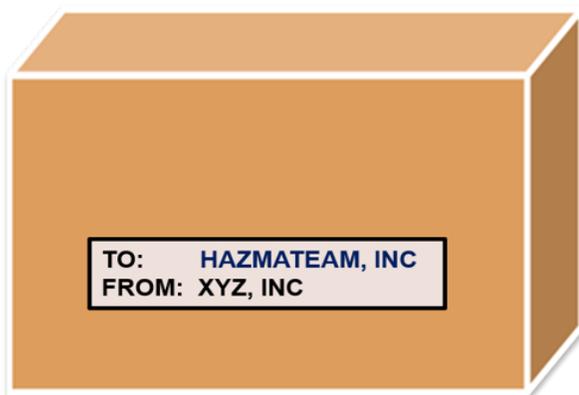


## TRACKING DEVICE WITH A SMALL LITHIUM ION BATTERY CONTAINED IN EQUIPMENT

## TRACKING DEVICE (SUCH AS A DATA LOGGER) ACTIVATED DURING AIR TRANSPORT



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- Air TRANSPORT
- BATTERY SIZE: SMALL; BATTERY/CELL INSTALLED
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- THE EQUIPMENT MUST BE IN USE OR INTENDED FOR USE DURING TRANSPORTATION, NOT AS CARGO.
- PACKAGES CONTAINING COVID-19 PHARMACEUTICALS ACCOMPANIED BY DATA LOGGERS AND/OR CARGO TRACKING DEVICES CONTAINING LITHIUM ION BATTERIES ARE NOT SUBJECT TO THE MARKING AND DOCUMENTATION REQUIREMENTS OF SECTION II OF PACKING INSTRUCTION 967.
- PACKAGES ACCOMPANIED BY DATA LOGGERS AND/OR CARGO TRACKING DEVICES (WITHOUT COVID-19 PHARMACEUTICALS) CONTAINING LITHIUM ION BATTERIES ARE NOT SUBJECT TO THE MARKING AND DOCUMENTATION REQUIREMENTS OF SECTION II OF PACKING INSTRUCTION 967 **PROVIDED PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE OPERATOR (THE AIRLINE)**. IF ARRANGEMENTS HAVE NOT BEEN MADE, MUST SHIP PER PI 967 SECTION II ([CLICK HERE FOR PI 967 SECTION II](#)).
- DEVICE IS NOT CAPABLE OF GENERATING A DANGEROUS EVOLUTION OF HEAT. WHEN ACTIVE, THESE DEVICES MUST MEET STANDARDS FOR ELECTROMAGNETIC RADIATION TO ENSURE THAT THE OPERATION OF THE DEVICE DOES NOT INTERFERE WITH AIRCRAFT SYSTEMS. THE DEVICES MUST NOT BE CAPABLE OF EMITTING DISTURBING SIGNALS (SUCH AS BUZZING ALARMS, STROBE LIGHTS).



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REFERENCE:

DOMESTIC USA: 49 CFR 173.14

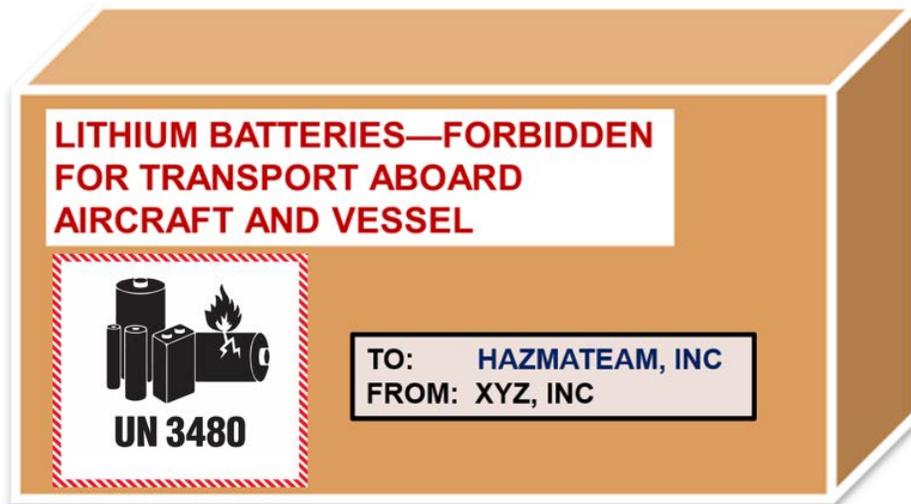
INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II AND SPECIAL PROVISION A220

**NAVIGATE (CLICK):**



## MEDIUM LITHIUM ION BATTERIES – NO EQUIPMENT

- **LITHIUM ION BATTERIES, UN 3480**
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



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REFERENCE:

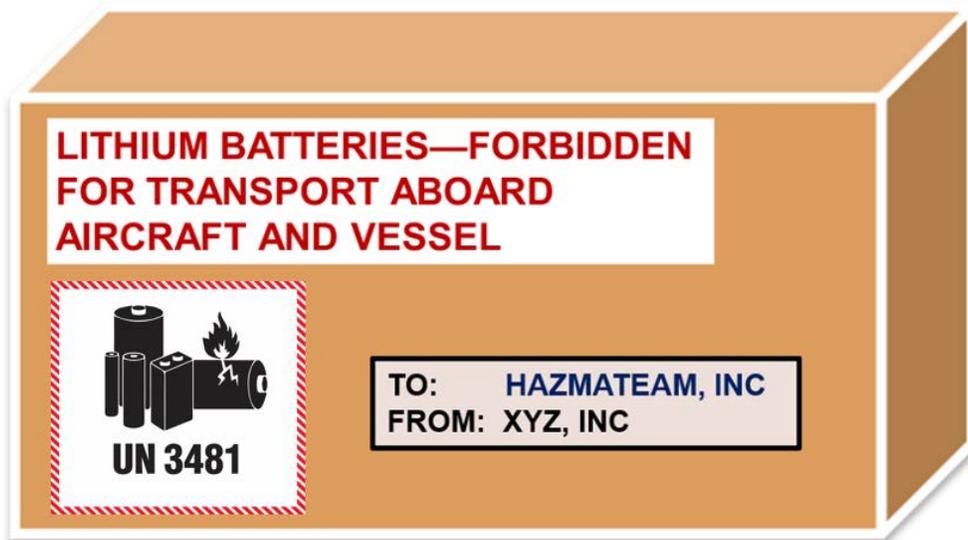
GROUND: 49 CFR 173.185 (c)(1)(iv), (vi) & (c)(3)

**NAVIGATE (CLICK):**



## MEDIUM LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

- *LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481*
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

**NAVIGATE (CLICK):**

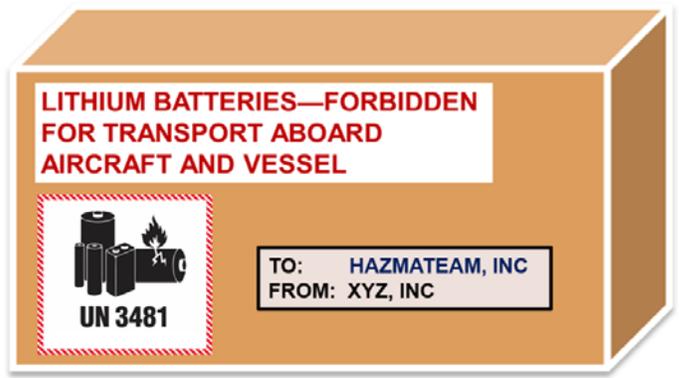
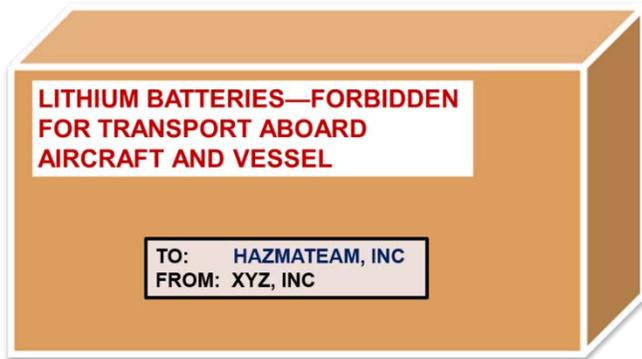


# MEDIUM LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED IN EQUIPMENT OR BUTTON CELLS INSTALLED
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**
- [CLICK HERE FOR MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

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REFERENCE:  
GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

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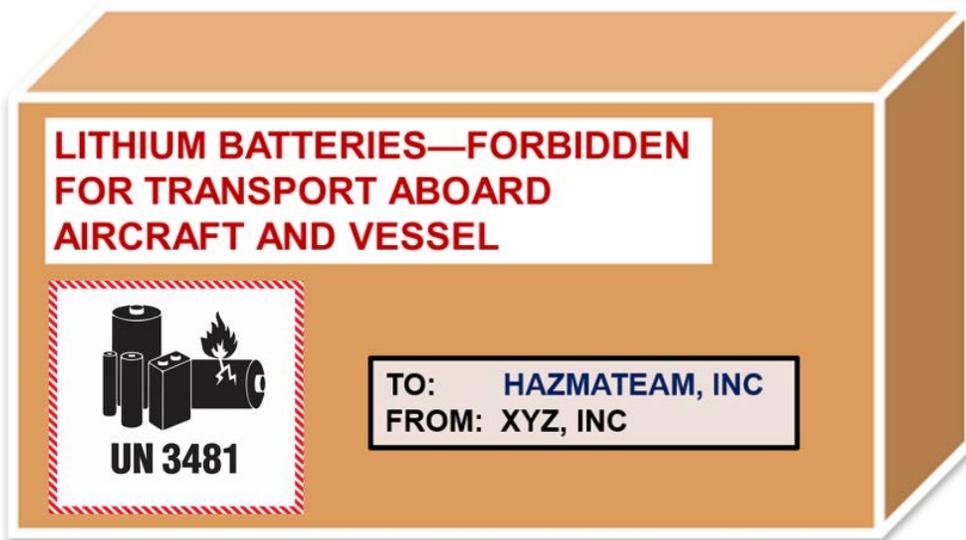


## MEDIUM LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

### MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



*Address label optional*

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM ION BATTERIES – NO EQUIPMENT



- **LITHIUM ION BATTERIES, UN 3480**
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label: IMDG optional; DOT see 49 CFR 172.301(d)

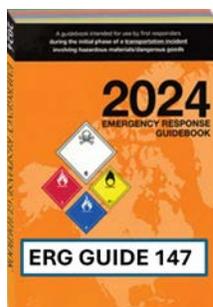
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REFERENCE:

GROUND: 49 CFR 172.301, 172.447 & 173.185

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

NAVIGATE (CLICK):



# FULLY REGULATED LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

- **LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label: IMDG optional; DOT see 49 CFR 172.301(d)

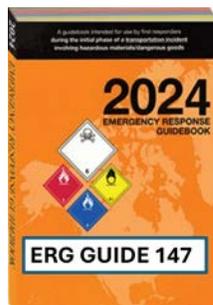
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REFERENCE:

GROUND: 49 CFR 172.301, 172.400 (b) & 173.185

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

- *LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481*
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**

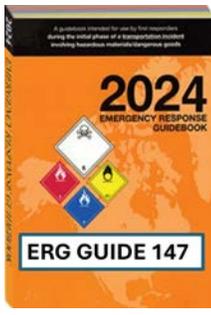


Address label: IMDG optional; DOT see 49 CFR 172.301(d)

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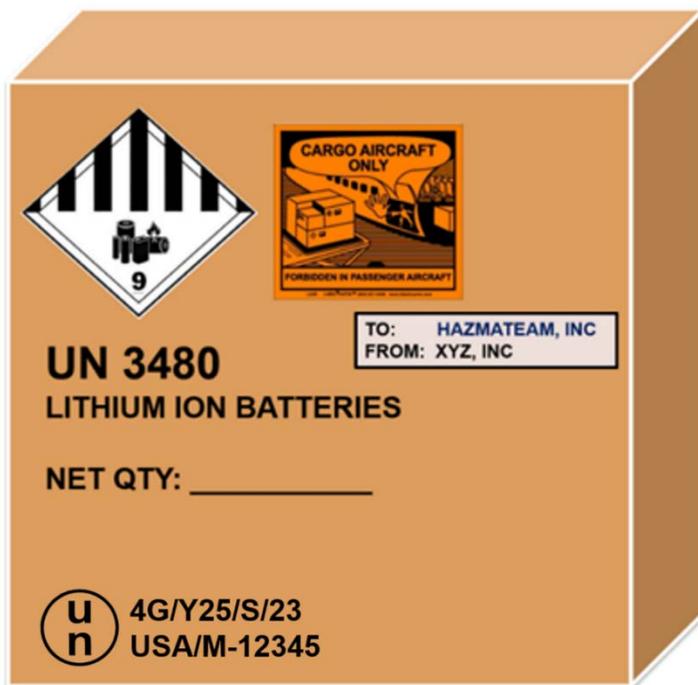
**REFERENCE:**  
 GROUND: 49 CFR 172.301, 172.447 & 173.185  
 SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4)  
 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM ION BATTERIES – NO EQUIPMENT (PI 965 SECTION IA)

- **LITHIUM ION BATTERIES, UN 3480**
- AIR TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- **BATTERY STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY**
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- FORBIDDEN FOR PASSENGER AIR; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label mandatory



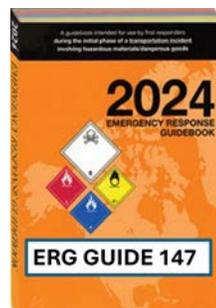
NET QTY  
(KG OF BATTERIES)  
MUST JIVE WITH  
NET QTY  
DESCRIBED ON  
DECLARATION

CELLS AND BATTERIES  
MUST NOT BE PACKED  
IN THE SAME OUTER  
PACKAGING OR  
OVERPACK WITH  
CLASS 1 (OTHER THAN  
1.4S), DIV 2.1, CLASS 3,  
DIV 4.1 or DIV 5.1

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REFERENCE:  
DOMESTIC USA: 49 CFR 172.301 & 172.447, 172.402(c), 173.185  
INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 965 SECTION IA

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



- **LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- STATE OF CHARGE **MUST NOT** EXCEED 30 % OF RATED DESIGN CAPACITY
- MAX NET QTY/PKG PASSENGER AIRCRAFT= 5 KG; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- THE NUMBER OF CELLS OR BATTERIES IN EACH PACKAGE MUST NOT EXCEED THE NUMBER REQUIRED FOR THE EQUIPMENT’S OPERATION, PLUS 2 SPARE SETS. A “SET” OF CELLS OR BATTERIES IS THE NUMBER OF INDIVIDUAL CELLS OR BATTERIES THAT ARE REQUIRED TO POWER EACH PIECE OF EQUIPMENT.
- REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label mandatory



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM ION BATTERIES (35 KG MAX)

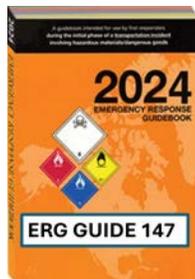
NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION



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**REFERENCE:**  
 DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c), 173.185  
 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 966 SECTION I

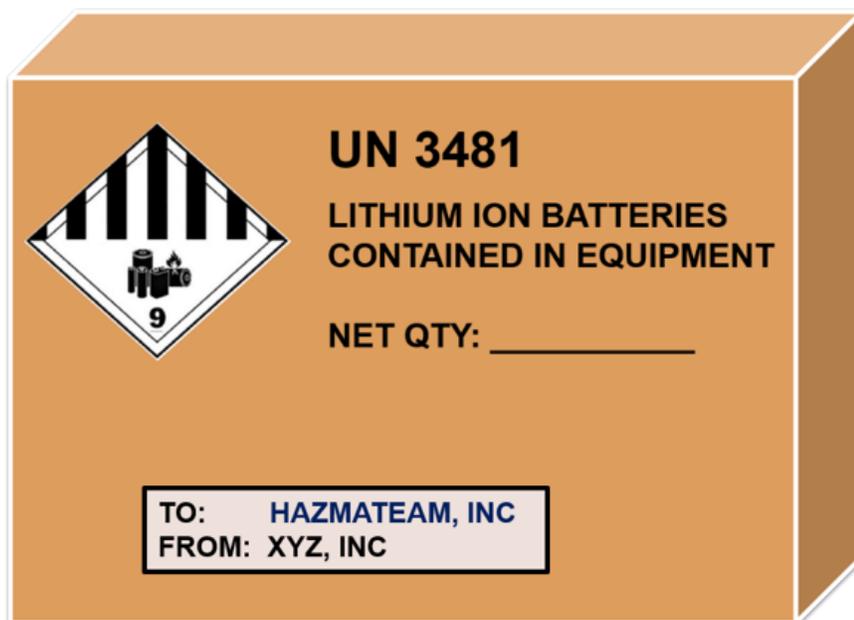
NAVIGATE (CLICK):



# FULLY REGULATED LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT



- **LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481**
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY INSTALLED IN EQUIPMENT
- STATE OF CHARGE **SHOULD NOT** EXCEED 30 % OF RATED DESIGN CAPACITY (NOT MANDATORY)
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



*Address label mandatory*



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM ION BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION

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**REFERENCE:**

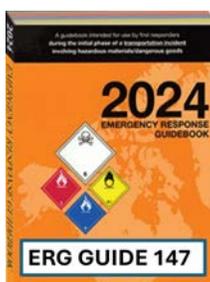
DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c)

SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4)

INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 967 SECTION I



**NAVIGATE (CLICK):**

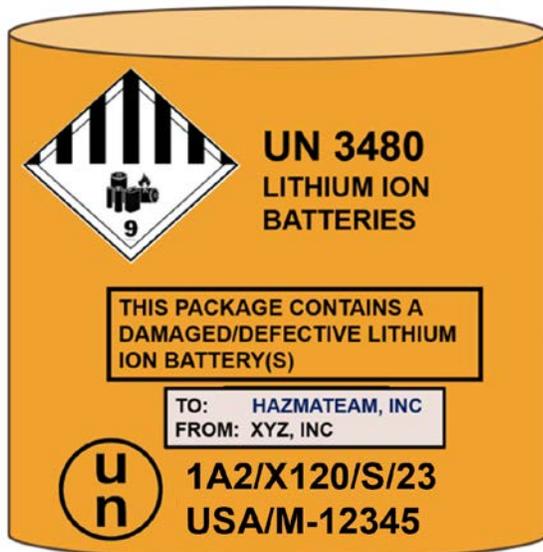


## DAMAGED/DEFECTIVE LITHIUM ION BATTERIES SHIPPED GROUND & VESSEL

LITHIUM CELLS OR BATTERIES, THAT HAVE BEEN DAMAGED OR IDENTIFIED BY THE MANUFACTURER AS BEING DEFECTIVE FOR SAFETY REASONS, THAT HAVE THE POTENTIAL OF PRODUCING A DANGEROUS EVOLUTION OF HEAT, FIRE, OR SHORT CIRCUIT (e.g. THOSE BEING RETURNED TO THE MANUFACTURER FOR SAFETY REASONS)



- **LITHIUM ION BATTERIES, UN 3480**
- **BATTERY SIZE:** ALL ([UN Tested](#))
- GROUND AND VESSEL ONLY
- ONLY PACKAGING DESIGNED FOR DAMAGED OR DEFECTIVE BATTERIES MAY BE USED
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- CELLS AND BATTERIES LIABLE TO RAPIDLY DISASSEMBLE, DANGEROUSLY REACT, PRODUCE A FLAME OR A DANGEROUS EVOLUTION OF HEAT OR DANGEROUS EMISSION OF TOXIC, CORROSIVE OR FLAMMABLE GASES OR VAPORS UNDER NORMAL CONDITIONS OF TRANSPORT SHALL NOT BE TRANSPORTED
- SHIPPABLE VIA US POSTAL SERVICE: **STANDALONE BATTERIES PROHIBITED; DEVICES WITH SMALL BATTERIES, SEE APPLICABLE PAGES FOR SMALL UN 3481**



Address label: IMDG optional; DOT see 49 CFR 172.301(d)

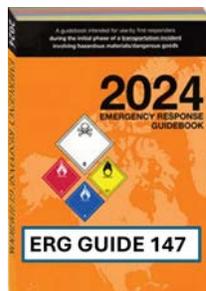
© HAZMATEAM, INC

REFERENCE:

**IMDG**  
 MARKS AND LABEL: IMDG Code Chapter 5.2 AND SP 376  
 PACKAGING: IMDG Code Chapter 4.1.4, PI P903 & PI P908

**DOT GROUND**  
 MARKS AND LABELS: 49 CFR 172 SUBPARTS D & E & 173.185 (f)(4)  
 PACKAGING: [49 CFR 173.185 \(b\), \(f\) \(CLICK\)](#)

### NAVIGATE (CLICK):



## SMALL LITHIUM METAL BATTERIES – NO EQUIPMENT

- **LITHIUM METAL BATTERIES, UN 3090**
- BATTERY SIZE: SMALL ([UN Tested](#))
- GROUND & VESSEL TRANSPORT
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)



### ANY OF THE FOLLOWING ARE ALLOWED:



Address label optional



Address label optional



Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BATTERIES – NO EQUIPMENT

- **LITHIUM METAL BATTERIES, UN 3090**
- BATTERY SIZE: SMALL ([UN Tested](#))
- UNITED STATES MAIL
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO



### U.S. MAIL

UN 3090 is prohibited for domestic air mail.

UN 3090 is prohibited for all international mail.

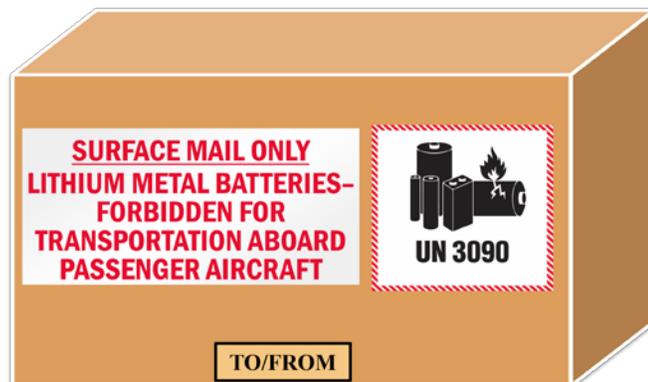
Allowed packages must not exceed 5 pounds gross weight.

Outer packages must be rigid. Outer packaging rated at 200 lb. burst test or 32-edge crush test strength or equivalent, at minimum. Use of padded or poly bags are prohibited.

All outer packages must have a complete delivery and return address.

Damaged, defective, or recalled batteries (standalone) are prohibited unless approved by the director, USPS Product Classification.

### WHEN SHIPPED US MAIL



Address labels required

© HAZMATEAM, INC.

### REFERENCE:

USPS: Pub 52, 339.4, 349.2, PI 9D (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

### NAVIGATE (CLICK):



[RETURN TO SMALL UN 3090 VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

## SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- **LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091**
- BATTERY SIZE: SMALL ([UN Tested](#))
- GROUND & VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- [CLICK HERE IF MORE THAN 5 KG NET PER PACKAGE](#)
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)



*Address label optional*

© HAZMATEAM, INC

**REFERENCE:**

**GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)**

**VESSEL: IMDG CODE, CHAPTER 3.3, SP 188**

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT



- *LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091*
- BATTERY SIZE: SMALL ([UN Tested](#))
- UNITED STATES MAIL
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.

### U.S. MAIL

UN 3091, “packed with” is prohibited for all international mail.

Allowed for domestic surface and air mail (unless it is a Used, Damaged or Defective Electronic Device).

Packages containing small lithium metal cells/batteries cannot exceed 8 cells or 2 batteries and the package cannot exceed 11 pounds gross weight.

If package contains very small lithium metal batteries/cells (0.3 grams of aggregate lithium content or less), there is no quantity of cells/battery limit. But, packages cannot exceed 5.5 pounds gross wt.

The package cannot contain more cells/batteries than the number needed to operate the device.

Outer packages must be rigid. Outer packaging must be rated at 200 lb. burst test or 32-edge crush test strength or equivalent, at minimum. Poly or padded bags are prohibited.

**Used, Damaged, or Defective Electronic Device:** An electronic device containing or packaged with one or more lithium cells or batteries that, Is not new in original packaging; Is not manufacturer-certified new or refurbished; and/or Has some form of damage or defect is to be marked: “Restricted Electronic Device” and “Surface Mail Only” on the address side on the mailpiece.

All outer packages must have a complete delivery and return address.



© HAZMATEAM, INC.

REFERENCE:

USPS: Pub 52, 339.4, 349.2, PI 9D (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

**NAVIGATE (CLICK):**



[RETURN TO SMALL UN 3091, LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

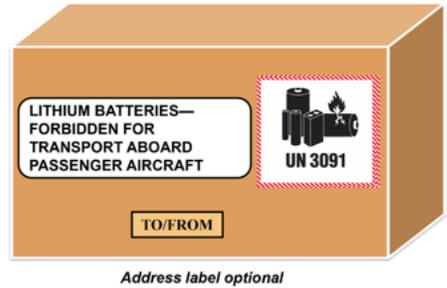
# SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT



NET WT OF BATTERIES PER PACKAGE IS GREATER THAN 5 KG

- **LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091**
- BATTERY SIZE: SMALL ([UN Tested](#))
- GROUND & VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- CAO OR "PRIMARY..." LABEL ONLY REQUIRED IF SHIPPED FROM, THROUGH OR TO USA
- [CLICK HERE IF NO MORE THAN 5 KG NET PER PACKAGE](#)

ANY OF THE FOLLOWING ARE ALLOWED:



© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

NAVIGATE (CLICK):



# SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG



- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE**
- BATTERY INSTALLED IN EQUIPMENT.
- DECLARATION/SHIPPING PAPER: NO
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\) & NO MORE THAN 5 KG NET](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\) & OVER 5 KG NET](#)
- [CLICK HERE IF LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)



Address label optional



IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT



- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- UNITED STATES MAIL
- BATTERY SIZE: SMALL ([UN Tested](#))
- BATTERY INSTALLED IN EQUIPMENT.
- DECLARATION/SHIPPING PAPER: NO

### U.S. MAIL

Allowed for international mail (unless it is a Used, Damaged, or Defective Electronic Device)

Allowed for domestic surface and air mail (unless it is a Used, Damaged, or Defective Electronic Device).

Domestic: Packages containing small lithium metal cells/batteries cannot exceed 8 cells or 2 batteries and the package cannot exceed 11 pounds gross weight.

Domestic: If package contains very small lithium metal batteries/cells (0.3 grams of aggregate lithium content or less), there is no quantity of cells/battery limit. But, packages cannot exceed 5.5 pounds gross wt.

International: 4 cells, 2 batteries max per package.

Use of padded or poly bags are permitted if the package does not require the lithium battery mark, provided they are within a secondary packaging (i.e., original manufacturer's box) that can withstand a 1.2-meter drop test before being placed inside the padded or poly bag. The lithium batteries are afforded adequate protection by the equipment/device.

If the lithium battery mark is required: Outer packages must be rigid. Outer packaging must be rated at 200 lb. burst test or 32-edge crush test strength or equivalent, at minimum.

Used, Damaged, or Defective Electronic Device: An electronic device containing or packaged with one or more lithium cells or batteries that, Is not new in original packaging; Is not manufacturer-certified new or refurbished; and/or Has some form of damage or defect is to be marked: "Restricted Electronic Device" and "Surface Mail Only" on the address side on the mailpiece.

All outer packages must have a complete delivery & return address.



IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

© HAZMATEAM, INC.

REFERENCE:

USPS: Pub 52, 339.4, 349.2, 622.5 (International); PI 9D and 9E (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

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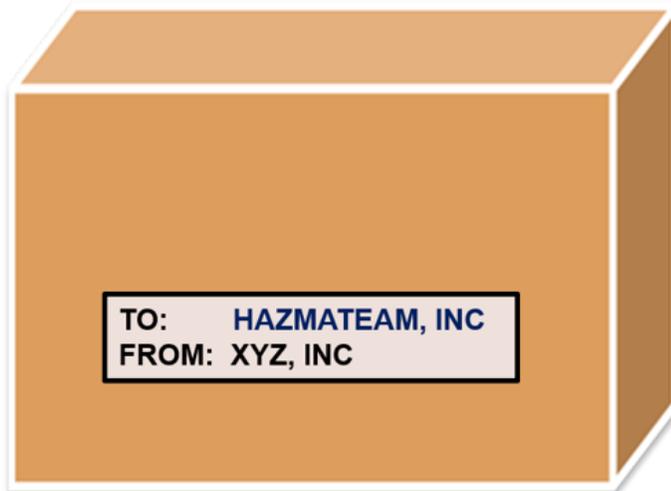


[RETURN TO SMALL UN 3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

## SMALL LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, BUT CANNOT EXCEED 5 KG NET
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF SMALL LITHIUM METAL BATTERY OTHER THAN BUTTON CELL INSTALLED](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)



*Address label optional*

Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

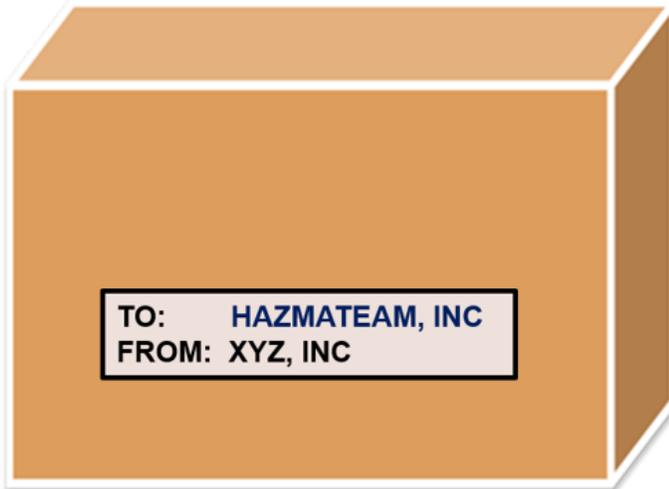
VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- UNITED STATES MAIL
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT



### U.S. MAIL

Allowed for international mail (unless it is a Used, Damaged, or Defective Electronic Device)

Allowed for domestic surface and air mail (unless it is a Used, Damaged, or Defective Electronic Device).

Each button cell cannot exceed 0.3 grams aggregate lithium metal content.

No limit to the quantity of cells per package. But, package cannot exceed 5.5 pounds gross weight.

Use of padded or poly bags are allowed if batteries are afforded adequate protection by the equipment.

Used, Damaged, or Defective Electronic Device: An electronic device containing or packaged with one or more lithium cells or batteries that, Is not new in original packaging; Is not manufacturer-certified new or refurbished; and/or Has some form of damage or defect is to be marked: "Restricted Electronic Device" and "Surface Mail Only" on the address side on the mailpiece.

All outer packages must have a complete delivery and return address.

© HAZMATEAM, INC.

#### REFERENCE:

USPS: Pub 52, 349.2, PI 9D and 9E (APP C)

[Publication 52 - Hazardous, Restricted, and Perishable Mail | Postal Explorer](#)

**NAVIGATE (CLICK):**



[RETURN TO SMALL UN 3091, LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT VIA GROUND AND VESSEL PAGE FOR CARRIERS OTHER THAN US POSTAL SERVICE](#)

## SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT



NET WT OF BATTERY PER PACKAGE NO MORE THAN 5 KG

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE**
- DECLARATION/SHIPPING PAPER: NO
- BATTERIES INSTALLED IN EQUIPMENT
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\) & OVER 5 KG NET](#)
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\) & NO MORE THAN 5 KG NET](#)
- [CLICK HERE IF LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)



*Address label optional*

© HAZMATEAM, INC

**REFERENCE:**

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS MORE THAN 5 KG



- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- BATTERY SIZE: SMALL ([UN Tested](#))
- GROUND & VESSEL TRANSPORT
- MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED IN EQUIPMENT PER PACKAGE
- DECLARATION/SHIPPING PAPER: NO
- BATTERIES INSTALLED IN EQUIPMENT
- CAO OR "PRIMARY..." LABEL ONLY REQUIRED IF SHIPPED FROM, THROUGH OR TO USA
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\) & NO MORE THAN 5 KG NET](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\) & NO MORE THAN 5 KG NET](#)
- [CLICK HERE IF LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)

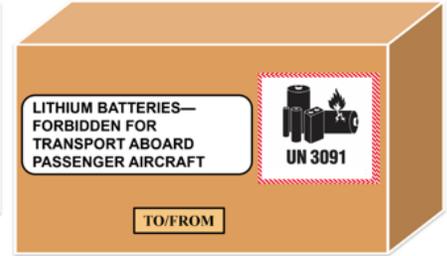
ANY OF THE FOLLOWING ARE ALLOWED:



*Address label optional*



*Address label optional*



*Address label optional*

© HAZMATEAM, INC

**REFERENCE:**

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

**NAVIGATE (CLICK):**

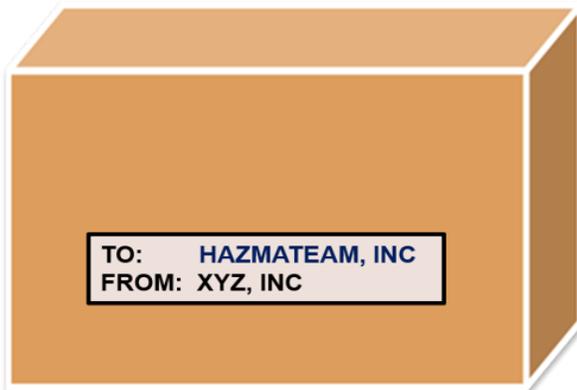


## TRACKING DEVICE WITH A SMALL LITHIUM METAL BATTERY CONTAINED IN EQUIPMENT



## TRACKING DEVICE (SUCH AS A DATA LOGGER) ACTIVATED DURING GROUND / VESSEL TRANSPORT

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: SMALL
- BATTERY/CELL INSTALLED
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- THE EQUIPMENT MUST BE IN USE OR INTENDED FOR USE DURING TRANSPORTATION, NOT AS CARGO.
- DEVICE IS NOT CAPABLE OF GENERATING A DANGEROUS EVOLUTION OF HEAT. WHEN ACTIVE, THESE DEVICES MUST MEET STANDARDS FOR ELECTROMAGNETIC RADIATION TO ENSURE THAT THE OPERATION OF THE DEVICE DOES NOT INTERFERE WITH AIRCRAFT SYSTEMS. THE DEVICES MUST NOT BE CAPABLE OF EMITTING DISTURBING SIGNALS (SUCH AS BUZZING ALARMS, STROBE LIGHTS).
- FOR VESSEL TRANSPORT, TRACKING DEVICES MUST BE SECURELY INSTALLED AND MUST BE OF A CERTIFIED SAFE TYPE FOR THE HAZARDOUS MATERIALS THAT WILL BE CARRIED WITHIN THE FREIGHT CONTAINER OR TRANSPORT VEHICLE IN WHICH SUCH AS DEVICE OR EQUIPMENT IS INSTALLED.



*Address label optional*

© HAZMATEAM, INC

REFERENCE:

DOMESTIC USA: 49 CFR 173.14, 176.76 (a)(9)

INTERNATIONAL VESSEL: IMDG PI 903, IMDG SP 188

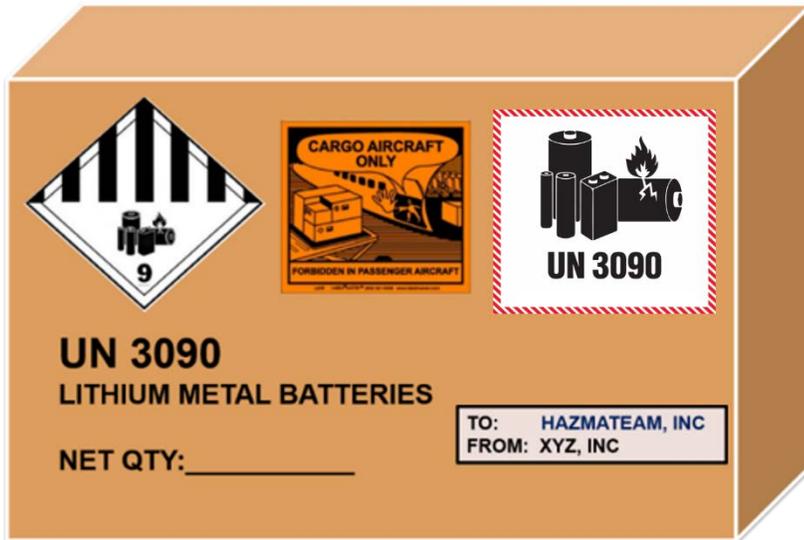
**NAVIGATE (CLICK):**



# SMALL LITHIUM METAL BATTERIES – NO EQUIPMENT (PI 968 SECTION IB)



- **LITHIUM METAL BATTERIES, UN 3090**
- Air TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: SMALL ([UN Tested](#))
- Package contains ≤ 2.5 KG net, lithium metal batteries
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED FOR AIR TRANSPORT IN US MAIL**



**CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING OR OVERPACK WITH CLASS 1 (OTHER THAN 1.4S), DIV 2.1, CLASS 3, DIV 4.1 or DIV 5.1**

**Address label mandatory**

**NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION**

**© HAZMATEAM, INC**

**REFERENCE:**  
 DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)  
 INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 968, SECTION IB



**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT



- **LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091**
- Air TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- **NO MORE THAN THE MINIMUM NUMBER OF BATTERIES TO POWER THE EQUIPMENT PLUS TWO SPARES.**
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)



*Address label optional*

© HAZMATEAM, INC

**REFERENCE:**

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 969, SECTION II

**NAVIGATE (CLICK):**

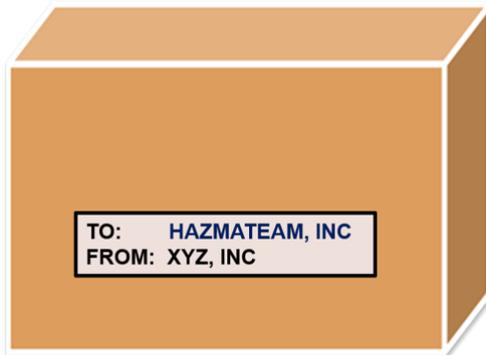


## SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



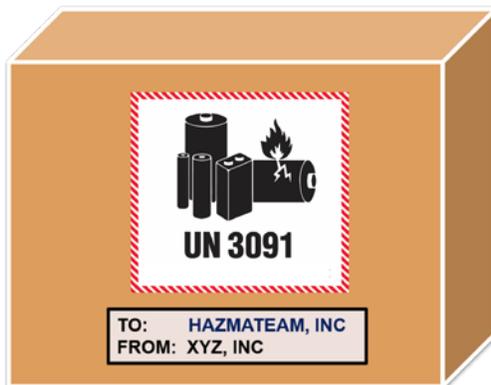
- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- Air TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- **LIMIT:** NO MORE THAN 4 LITHIUM METAL CELLS OR 2 LITHIUM METAL BATTERIES ARE CONTAINED IN EQUIPMENT OR IF BUTTON CELLS ARE INSTALLED PER PACKAGE
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY IS INSTALLED.
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES \(OTHER THAN BUTTON CELLS\) ARE CONTAINED IN EQUIPMENT PER PACKAGE](#)
- [CLICK HERE IF LITHIUM METAL BUTTON CELLS ARE CONTAINED IN EQUIPMENT](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)



*Address label optional*



IF SHIPPING ONE OR TWO PACKAGES  
PER CONSIGNMENT ACCORDING TO  
PI 970, SECTION II



*Address label optional*



IF SHIPPING MORE THAN TWO  
PACKAGES PER CONSIGNMENT  
ACCORDING TO PI 970, SECTION II

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**REFERENCE:**

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970, SECTION II

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT



NO MORE THAN 5 KG NET QTY OF BUTTON CELLS INSTALLED PER PKG

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- AIR TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO
- AIR WAYBILL IS NOT REQUIRED WHEN THE BATTERY MARK IS NOT REQUIRED
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, CANNOT EXCEED 5 KG NET
- SHIPPABLE VIA US POSTAL SERVICE: **YES**, [CLICK HERE FOR REQUIREMENTS](#)
- [CLICK HERE IF SMALL LITHIUM METAL BATTERY OTHER THAN BUTTON CELL INSTALLED](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)



*Address label optional*

Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

© HAZMATEAM, INC

**REFERENCE:**

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970, SECTION II

**NAVIGATE (CLICK):**



## SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT



### MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- AIR TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY IS INSTALLED.
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES ARE CONTAINED IN EQUIPMENT PER PACKAGE](#)
- [CLICK HERE FOR ACTIVATED TRACKING DEVICE CONTAINING A LITHIUM METAL BATTERY](#)



*Address label optional*

© HAZMATEAM, INC

**REFERENCE:**

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970, SECTION II

**NAVIGATE (CLICK):**

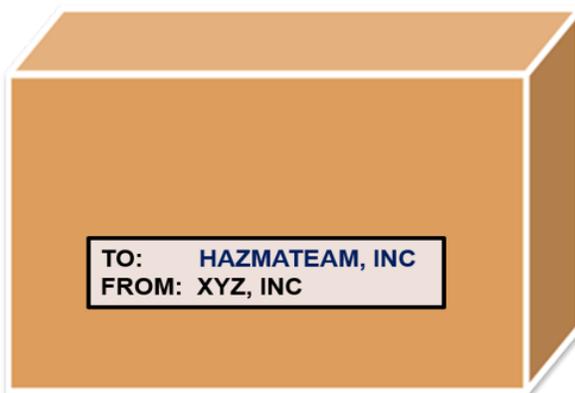


## TRACKING DEVICE WITH A SMALL LITHIUM METAL BATTERY CONTAINED IN EQUIPMENT

## TRACKING DEVICE (SUCH AS A DATA LOGGER) ACTIVATED DURING AIR TRANSPORT



- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- AIR TRANSPORT
- BATTERY SIZE: SMALL; BATTERY/CELL INSTALLED
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- THE EQUIPMENT MUST BE IN USE OR INTENDED FOR USE DURING TRANSPORTATION, NOT AS CARGO.
  
- PACKAGES CONTAINING COVID-19 PHARMACEUTICALS ACCOMPANIED BY DATA LOGGERS AND/OR CARGO TRACKING DEVICES CONTAINING LITHIUM METAL BATTERIES ARE NOT SUBJECT TO THE MARKING AND DOCUMENTATION REQUIREMENTS OF SECTION II OF PACKING INSTRUCTION 970.
  
- PACKAGES ACCOMPANIED BY DATA LOGGERS AND/OR CARGO TRACKING DEVICES (WITHOUT COVID-19 PHARMACEUTICALS) CONTAINING LITHIUM ION BATTERIES ARE NOT SUBJECT TO THE MARKING AND DOCUMENTATION REQUIREMENTS OF SECTION II OF PACKING INSTRUCTION 970 **PROVIDED PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE OPERATOR (THE AIRLINE)**. IF ARRANGEMENTS HAVE NOT BEEN MADE, MUST SHIP PER PI 970 SECTION II ([CLICK HERE FOR PI 970 SECTION II](#)).
  
- DEVICE IS NOT CAPABLE OF GENERATING A DANGEROUS EVOLUTION OF HEAT. WHEN ACTIVE, THESE DEVICES MUST MEET STANDARDS FOR ELECTROMAGNETIC RADIATION TO ENSURE THAT THE OPERATION OF THE DEVICE DOES NOT INTERFERE WITH AIRCRAFT SYSTEMS. THE DEVICES MUST NOT BE CAPABLE OF EMITTING DISTURBING SIGNALS (SUCH AS BUZZING ALARMS, STROBE LIGHTS).



*Address label optional*

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REFERENCE:

DOMESTIC USA: 49 CFR 173.14

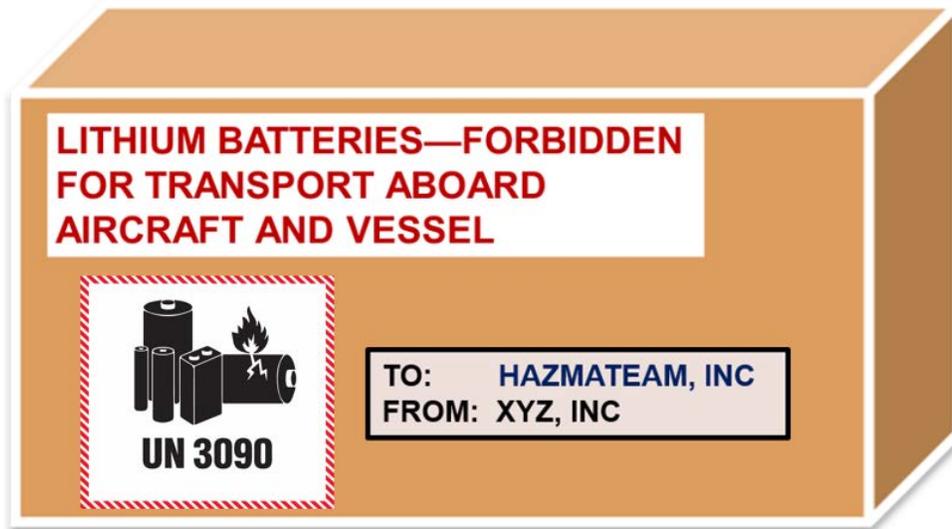
INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970. SECTION II AND SPECIAL PROVISION A220

**NAVIGATE (CLICK):**

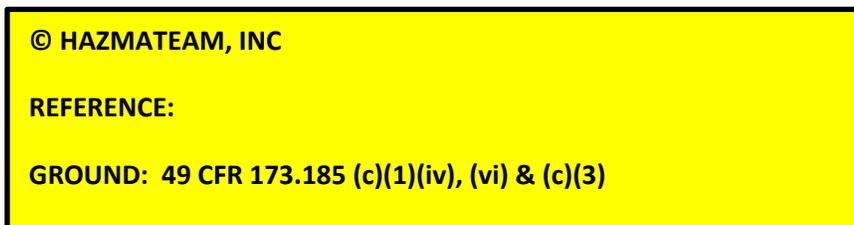


## MEDIUM LITHIUM METAL BATTERIES – NO EQUIPMENT

- **LITHIUM METAL BATTERIES, UN 3090**
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



*Address label optional*



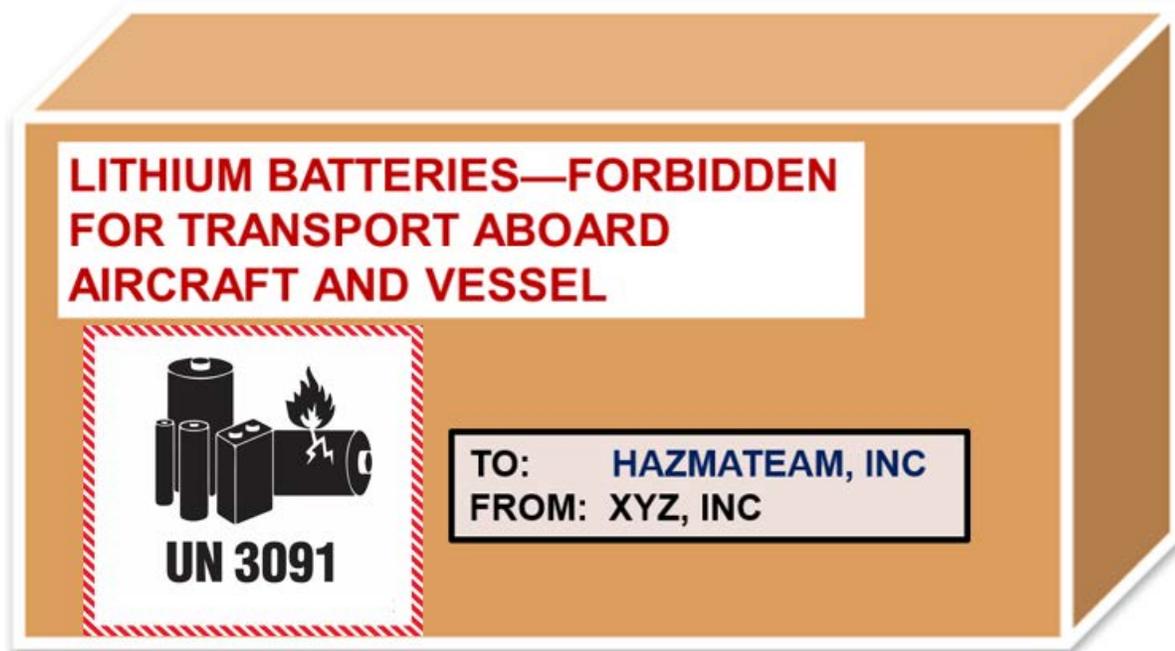
**NAVIGATE (CLICK):**



## MEDIUM LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT



- *LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091*
- GROUND ONLY – DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



*Address label optional*

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

**NAVIGATE (CLICK):**

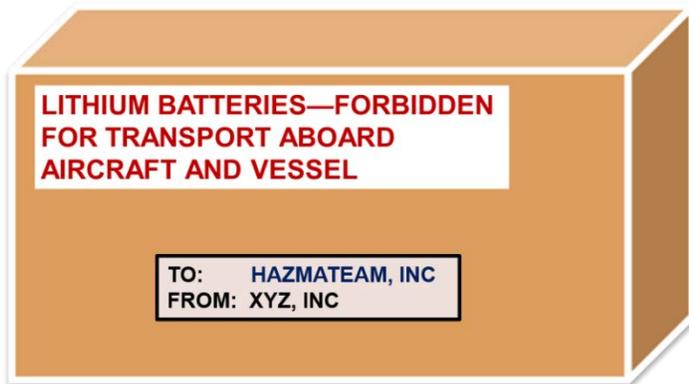


# MEDIUM LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

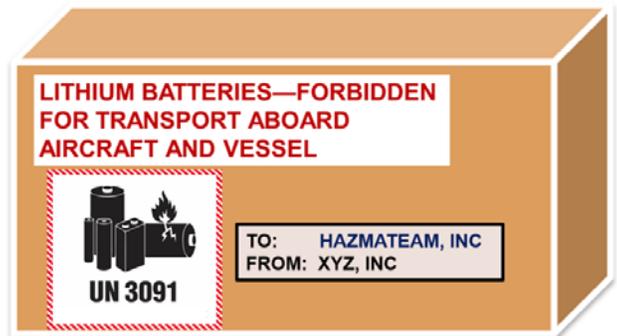
NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE



- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- GROUND ONLY – DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED IN EQUIPMENT OR BUTTON CELLS INSTALLED
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES ARE CONTAINED IN EQUIPMENT PER PACKAGE](#)



Address label optional



Address label optional



IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

NAVIGATE (CLICK):

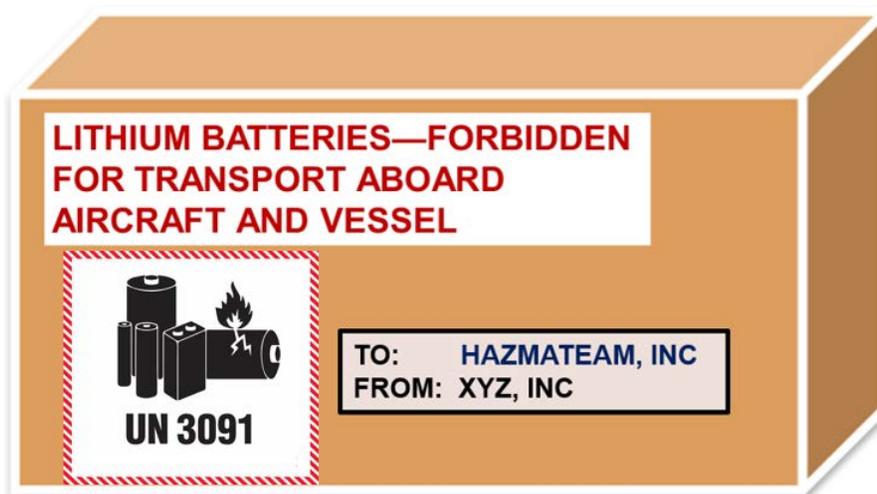


## MEDIUM LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

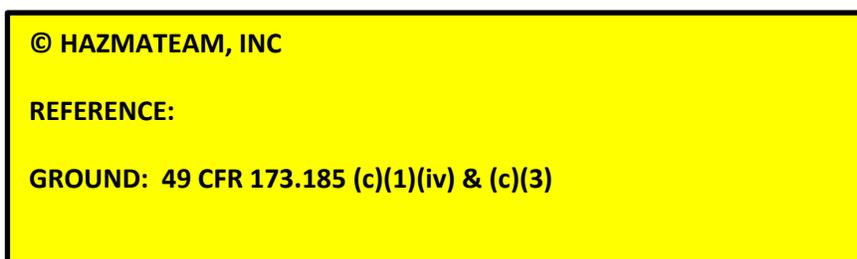
MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERIES INSTALLED IN EQUIPMENT
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



*Address label optional*



**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM METAL BATTERIES – NO EQUIPMENT

- **LITHIUM METAL BATTERIES, UN 3090**
- GROUND & VESSEL TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**

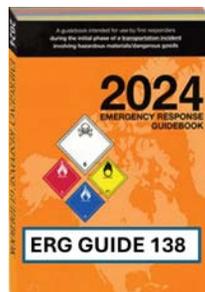


Address label: IMDG optional; DOT see 49 CFR 172.301(d)

© HAZMATEAM, INC

**REFERENCE:**  
 GROUND: 49 CFR 172.301 & 172.447, 173.185  
 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

## NAVIGATE (CLICK):



# FULLY REGULATED LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

- **LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091**
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- LIMIT: REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label: IMDG optional; DOT see 49 CFR 172.301(d)

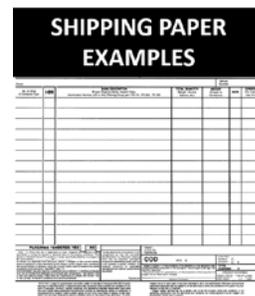
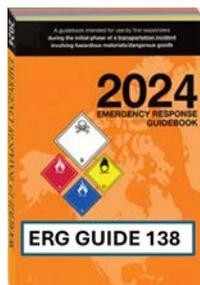
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**REFERENCE:**

GROUND: 49 CFR 172.301, 172.447 & 173.185

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

- *LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091*
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**

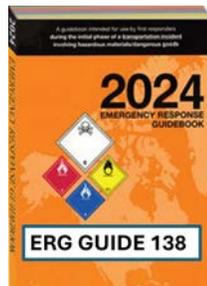


*Address label: IMDG optional; DOT see 49 CFR 172.301(d)*

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**REFERENCE:**  
 GROUND: 49 CFR 172.301 & 172.400 (b)  
 SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4)  
 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM METAL BATTERIES – NO EQUIPMENT (PI 968 SECTION IA)

- **LITHIUM METAL BATTERIES, UN 3090**
- AIR TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- FORBIDDEN FOR PASSENGER AIRCRAFT; MAX NET QTY PER CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



*Address label mandatory*



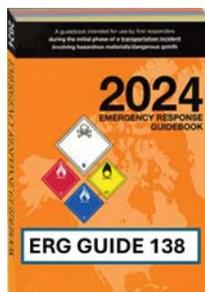
NET QTY  
(KG OF BATTERIES)  
MUST JIVE WITH  
NET QTY  
DESCRIBED ON  
DECLARATION

CELLS AND BATTERIES  
MUST NOT BE PACKED  
IN THE SAME OUTER  
PACKAGING OR  
OVERPACK WITH  
CLASS 1 (OTHER THAN  
1.4S), DIV 2.1, CLASS 3,  
DIV 4.1 or DIV 5.1

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**REFERENCE:**  
DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c)  
INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 968 SECTION IA

**NAVIGATE (CLICK):**



# FULLY REGULATED LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

## LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091



- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- MAX NET PER PKG PASSENGER AIR = 5 KG;
- MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG
- THE NUMBER OF CELLS OR BATTERIES IN EACH PACKAGE MUST NOT EXCEED THE NUMBER REQUIRED FOR THE EQUIPMENT’S OPERATION, PLUS 2 SPARE SETS. A “SET” OF CELLS OR BATTERIES IS THE NUMBER OF INDIVIDUAL CELLS OR BATTERIES THAT ARE REQUIRED TO POWER EACH PIECE OF EQUIPMENT.
- REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM METAL BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST GIVE WITH NET QTY DESCRIBED ON DECLARATION

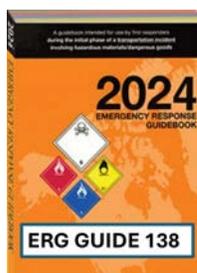
Address label: IMDG optional; DOT see 49 CFR 172.301(d)

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**REFERENCE:**  
 DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c)  
 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 969 SECTION I



NAVIGATE (CLICK):



# FULLY REGULATED LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

- **LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091**
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY INSTALLED IN EQUIPMENT
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label mandatory



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM METAL BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION



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**REFERENCE:**  
 DOMESTIC USA: 49 CFR 172.301,172.447, 172.402(c) & 173.185  
 SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4)  
 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 970 SECTION I

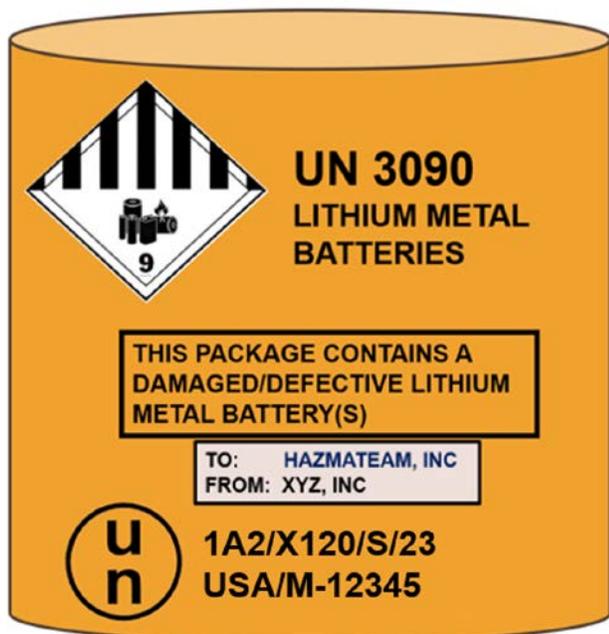
## NAVIGATE (CLICK):



## DAMAGED/DEFECTIVE LITHIUM METAL BATTERIES SHIPPED GROUND & VESSEL

LITHIUM CELLS OR BATTERIES, THAT HAVE BEEN DAMAGED OR IDENTIFIED BY THE MANUFACTURER AS BEING DEFECTIVE FOR SAFETY REASONS, THAT HAVE THE POTENTIAL OF PRODUCING A DANGEROUS EVOLUTION OF HEAT, FIRE, OR SHORT CIRCUIT (e.g. THOSE BEING RETURNED TO THE MANUFACTURER FOR SAFETY REASONS)

- **LITHIUM METAL BATTERIES, UN 3090**
- BATTERY SIZE: ALL ([UN Tested](#))
- GROUND AND VESSEL ONLY
- ONLY PACKAGING DESIGNED FOR DAMAGED OR DEFECTIVE BATTERIES MAY BE USED
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- CELLS AND BATTERIES LIABLE TO RAPIDLY DISASSEMBLE, DANGEROUSLY REACT, PRODUCE A FLAME OR A DANGEROUS EVOLUTION OF HEAT OR DANGEROUS EMISSION OF TOXIC, CORROSIVE OR FLAMMABLE GASES OR VAPORS UNDER NORMAL CONDITIONS OF TRANSPORT SHALL NOT BE TRANSPORTED
- SHIPPABLE VIA US POSTAL SERVICE: **STANDALONE BATTERIES PROHIBITED; DEVICES WITH SMALL BATTERIES, SEE APPLICABLE PAGES FOR SMALL UN 3091**



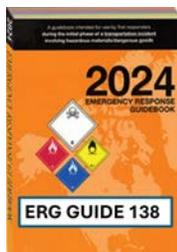
Address label: IMDG optional; DOT see 49 CFR 172.301(d)

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 REFERENCE:

**IMDG**  
 MARKS AND LABEL: IMDG Code Chapter 5.2 AND SP 376  
 PACKAGING: IMDG Code Chapter 4.1.4, PI P903 & PI P908

**DOT GROUND**  
 MARKS AND LABELS: 49 CFR 172 SUBPARTS D & E & 173.185 (f)(4)  
 PACKAGING: [49 CFR 173.185 \(b\), \(f\) \(CLICK\)](#)

NAVIGATE (CLICK):



## SMALL SODIUM ION BATTERIES – NO EQUIPMENT



- **SODIUM ION BATTERIES, UN 3551**
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT



*Address label: IMDG optional;*

© HAZMATEAM, INC.

REFERENCE:

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

**NAVIGATE (CLICK):**



# SMALL SODIUM ION BATTERIES PACKED WITH EQUIPMENT



- **SODIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3552**
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



Address label: IMDG optional;

© HAZMATEAM, INC

REFERENCE:

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

**NAVIGATE (CLICK):**





## SMALL SODIUM ION BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- **SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552**
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED](#)
- [CLICK HERE IF SODIUM ION BUTTON CELLS INSTALLED](#)



*Address label optional*



*Address label: IMDG optional;*



**IF MORE THAN 2 PACKAGES PER CONSIGNMENT.**

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REFERENCE:

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

**NAVIGATE (CLICK):**



## SMALL SODIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



- **SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552**
- VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO
- [CLICK HERE IF SMALL SODIUM ION BATTERY OTHER THAN BUTTON CELL INSTALLED](#)



*Address label optional*

**Button cell or battery means a round small cell or battery when the overall height is less than the diameter.**

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REFERENCE:

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

**NAVIGATE (CLICK):**





## SMALL SODIUM ION BATTERIES CONTAINED IN EQUIPMENT

### MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- *SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552*
- VESSEL TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



*Address label: IMDG optional;*

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REFERENCE:

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

**NAVIGATE (CLICK):**



## SMALL SODIUM ION BATTERIES PACKED WITH EQUIPMENT



- **SODIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3552**
- Air TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- **NO MORE THAN THE MINIMUM NUMBER OF BATTERIES TO POWER THE EQUIPMENT PLUS TWO SPARES.**
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



*Address label optional*

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REFERENCE:

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 977, SECTION II

**NAVIGATE (CLICK):**

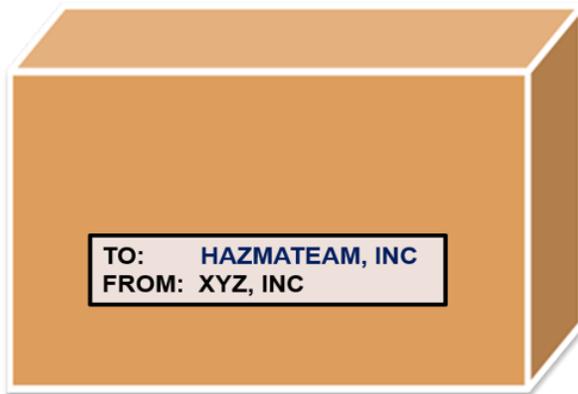


## SMALL SODIUM ION BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



- **SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552**
- Air TRANSPORT (Battery installed)
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- **LIMIT:** NO MORE THAN 4 SODIUM ION CELLS OR 2 SODIUM ION BATTERIES ARE INSTALLED OR IF BUTTON CELL BATTERIES ARE INSTALLED.
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\)](#)
- [CLICK HERE IF SHIPPING BUTTON CELLS INSTALLED IN EQUIPMENT](#)



Address label optional



Address label optional

IF SHIPPING ONE OR TWO PACKAGES  
ACCORDING TO PI 978, SECTION II

IF SHIPPING MORE THAN TWO PACKAGES  
ACCORDING TO PI 978, SECTION II

© HAZMATEAM, INC

**REFERENCE:**

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 978, SECTION II

**NAVIGATE (CLICK):**

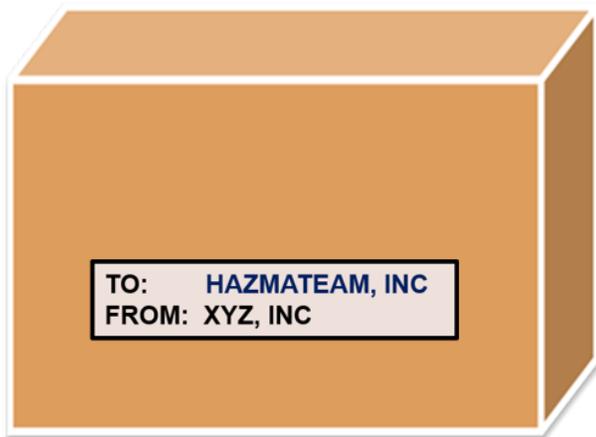


## SMALL SODIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



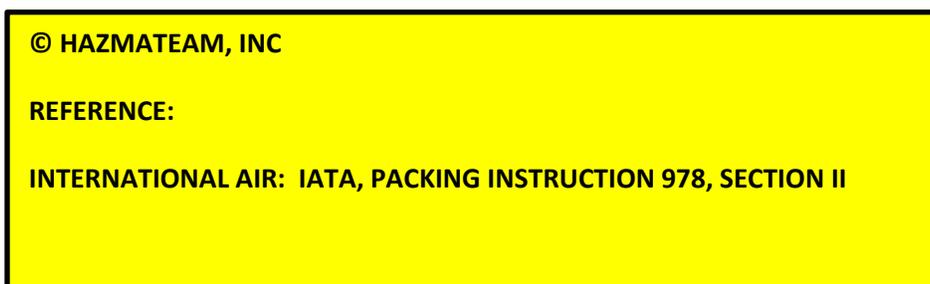
NO MORE THAN 5 KG NET QTY OF BUTTON CELLS INSTALLED PER PKG

- **SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552**
- AIR TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO
- AIR WAYBILL IS NOT REQUIRED WHEN THE BATTERY MARK IS NOT REQUIRED
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, CANNOT EXCEED 5 KG NET PER PACKAGE
- [CLICK HERE IF SMALL SODIUM ION BATTERIES OTHER THAN BUTTON CELLS CONTAINED IN EQUIPMENT](#)



*Address label optional*

**Button cell or battery means a round small cell or battery when the overall height is less than the diameter.**



**NAVIGATE (CLICK):**



## SMALL SODIUM ION BATTERIES CONTAINED IN EQUIPMENT

### MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



- **SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552**
- Air TRANSPORT
- BATTERY SIZE: SMALL ([UN Tested](#))
- **LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG**
- DECLARATION/SHIPPING PAPER: NO
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY IS INSTALLED.
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



*Address label optional*

© HAZMATEAM, INC

REFERENCE:

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 978, SECTION II

**NAVIGATE (CLICK):**



# FULLY REGULATED SODIUM ION BATTERIES – NO EQUIPMENT



- SODIUM ION BATTERIES, UN 3551
- VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION



Address label: IMDG optional



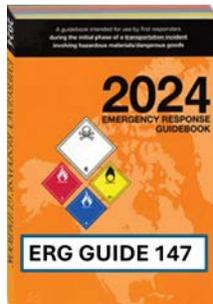
© HAZMATEAM, INC

REFERENCE:

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

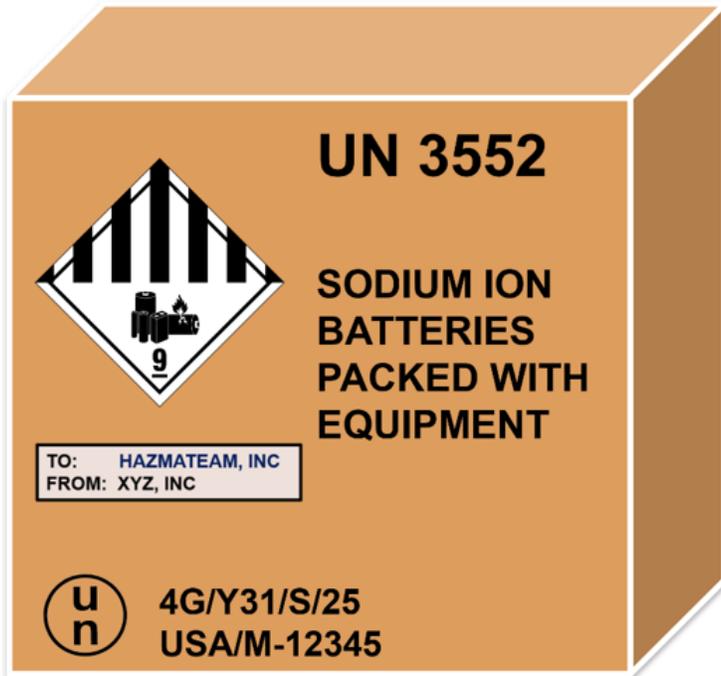
GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

NAVIGATE (CLICK):



# FULLY REGULATED SODIUM ION BATTERIES PACKED WITH EQUIPMENT

- **SODIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481**
- VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION



Address label: IMDG optional



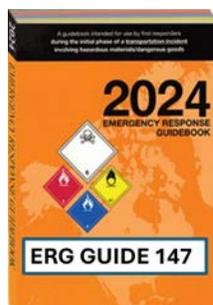
© HAZMATEAM, INC

REFERENCE:

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

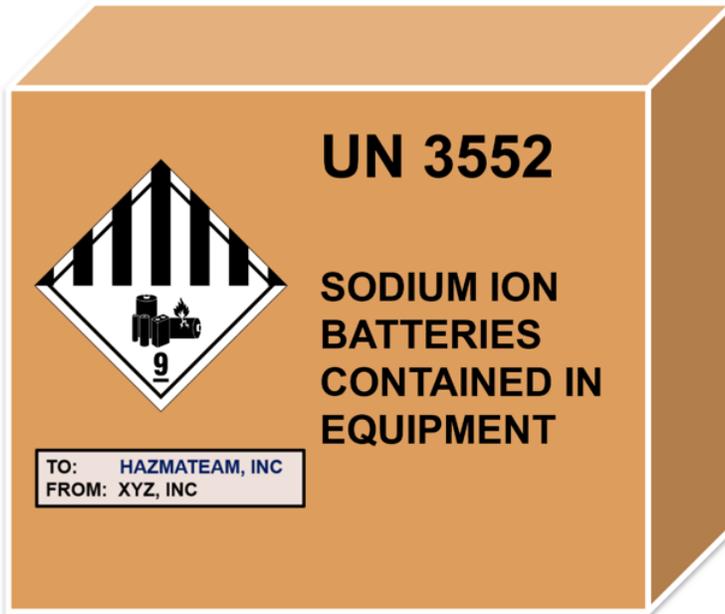
GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

## NAVIGATE (CLICK):



# FULLY REGULATED SODIUM ION BATTERIES CONTAINED IN EQUIPMENT

- SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552
- VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT



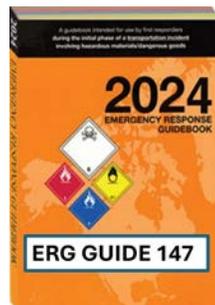
Address label: IMDG optional



© HAZMATEAM, INC

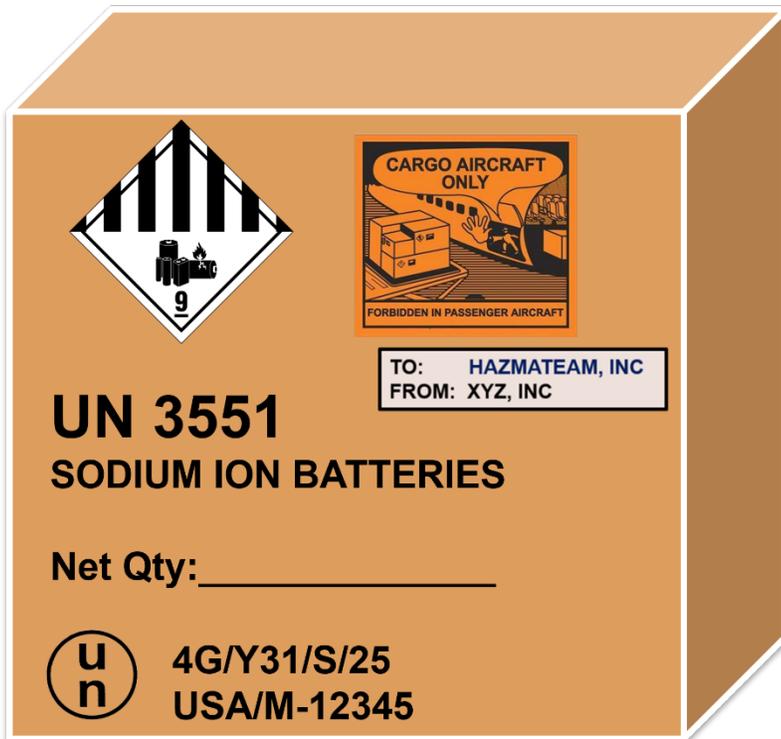
**REFERENCE:**  
 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903  
 GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW IMDG CODE

**NAVIGATE (CLICK):**



# SODIUM ION BATTERIES – NO EQUIPMENT (PI 976)

- **SODIUM ION BATTERIES, UN 3551**
- AIR TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: ALL SIZES ([UN Tested](#))
- **BATTERY STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY**
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- FORBIDDEN FOR PASSENGER AIR; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



NET QTY  
(KG OF BATTERIES)  
MUST JIVE WITH  
NET QTY  
DESCRIBED ON  
DECLARATION

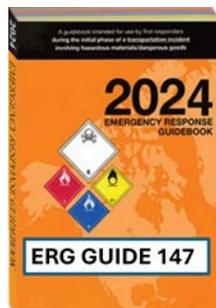
CELLS AND BATTERIES  
MUST NOT BE PACKED  
IN THE SAME OUTER  
PACKAGING OR  
OVERPACK WITH  
CLASS 1 (OTHER THAN  
1.4S), DIV 2.1, CLASS 3,  
DIV 4.1 or DIV 5.1

Address label mandatory

© HAZMATEAM, INC

**REFERENCE:**  
INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 976

**NAVIGATE (CLICK):**



# FULLY REGULATED SODIUM ION BATTERIES PACKED WITH EQUIPMENT



- **SODIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3552**
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- MAX NET QTY/PKG PASSENGER AIRCRAFT= 5 KG; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- THE NUMBER OF CELLS OR BATTERIES IN EACH PACKAGE MUST NOT EXCEED THE NUMBER REQUIRED FOR THE EQUIPMENT’S OPERATION, PLUS 2 SPARE SETS. A “SET” OF CELLS OR BATTERIES IS THE NUMBER OF INDIVIDUAL CELLS OR BATTERIES THAT ARE REQUIRED TO POWER EACH PIECE OF EQUIPMENT.
- REFER TO PACKAGE CLOSURE INSTRUCTION
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label mandatory



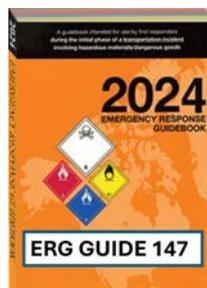
ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM ION BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION



© HAZMATEAM, INC  
**REFERENCE:**  
 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 977 SECTION I

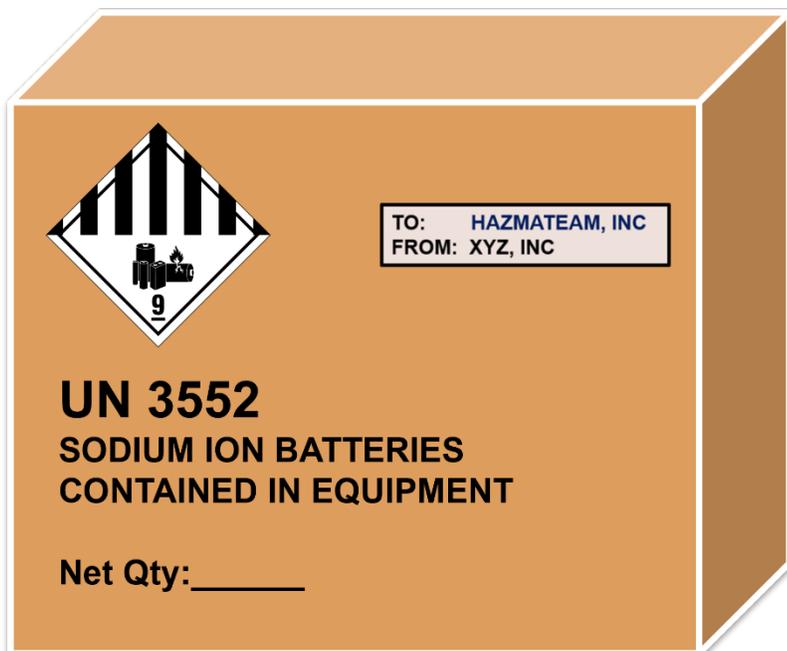
NAVIGATE (CLICK):



# FULLY REGULATED SODIUM ION BATTERIES CONTAINED IN EQUIPMENT



- **SODIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3552**
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED ([UN Tested](#))
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- BATTERY INSTALLED IN EQUIPMENT
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label mandatory



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM ION BATTERIES (35 KG MAX)

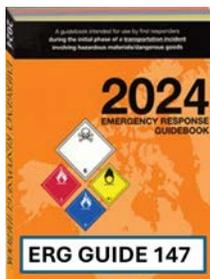
NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION

© HAZMATEAM, INC

**REFERENCE:**  
 SPEC PKG NOT REQUIRED: IATA PI 978, SECTION I  
 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 978 SECTION I



NAVIGATE (CLICK):



## DAMAGED/DEFECTIVE SODIUM ION BATTERIES SHIPPED VESSEL

SODIUM ION CELLS OR BATTERIES, THAT HAVE BEEN DAMAGED OR IDENTIFIED BY THE MANUFACTURER AS BEING DEFECTIVE FOR SAFETY REASONS, THAT HAVE THE POTENTIAL OF PRODUCING A DANGEROUS EVOLUTION OF HEAT, FIRE, OR SHORT CIRCUIT (e.g. THOSE BEING RETURNED TO THE MANUFACTURER FOR SAFETY REASONS)



- SODIUM ION BATTERIES, UN 3551
- BATTERY SIZE: ALL ([UN Tested](#))
- GROUND AND VESSEL
- ONLY PACKAGING DESIGNED FOR DAMAGED OR DEFECTIVE BATTERIES MAY BE USED
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- CELLS AND BATTERIES LIABLE TO RAPIDLY DISASSEMBLE, DANGEROUSLY REACT, PRODUCE A FLAME OR A DANGEROUS EVOLUTION OF HEAT OR DANGEROUS EMISSION OF TOXIC, CORROSIVE OR FLAMMABLE GASES OR VAPORS UNDER NORMAL CONDITIONS OF TRANSPORT SHALL NOT BE TRANSPORTED
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**



Address label: optional



© HAZMATEAM, INC

REFERENCE:

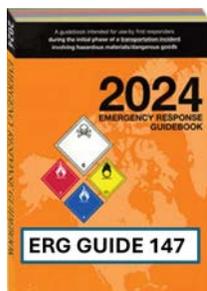
**IMDG**

MARKS AND LABEL: IMDG Code Chapter 5.2 AND SP 376

PACKAGING: IMDG Code Chapter 4.1.4, PI P903 & PI P908

**GROUND: PER DECEMBER 9, 2024 PHMSA NOTICE – FOLLOW  
IMDG CODE**

**NAVIGATE (CLICK):**





## BATTERY-POWERED VEHICLES SHIPPED GROUND

- **BATTERY-POWERED VEHICLE, UN 3171**
  - BATTERY SIZE: ALL
  - BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
  - MODE: GROUND
  - BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
  - NO SPARE BATTERIES ARE PERMITTED
  - DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): NO
  - SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**
- 
- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL OR LITHIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES OR OTHER FUELS, REFER TO 49 CFR 173.220
- 
- AS OF DATE OF PUBLICATION, DOT PHMSA HAS NOT INCORPORATED UN 3556, UN 3557 OR UN 3558 INTO 49 CFR 171-180. FOR VEHICLES POWERED BY LITHIUM ION AND LITHIUM METAL BATTERIES, CONTINUE TO FOLLOW UN 3171. FOR VEHICLES POWERED BY SODIUM ION BATTERIES FOLLOW THE REQUIREMENTS OF THE [IMDG CODE](#), AS SODIUM ION BATTERY RULES HAVE NOT YET BEEN INCORPORATED INTO 49 CFR. THIS IS ALLOWED PER A DECEMBER 9, 2024 PHMSA NOTICE.
- 
- “BATTERY-POWERED VEHICLES” ARE SELF-PROPELLED APPARATUS DESIGNED TO CARRY ONE OR MORE PERSONS OR GOODS. EXAMPLES OF SUCH VEHICLES ARE ELECTRICALLY-POWERED CARS, MOTORCYCLES, SCOOTERS, THREE AND FOUR-WHEELED VEHICLES OR MOTORCYCLES, TRUCKS, LOCOMOTIVES, BICYCLES (PEDAL CYCLES WITH AN ELECTRIC MOTOR) AND OTHER VEHICLES OF THIS TYPE (E.G. SELF-BALANCING VEHICLES OR VEHICLES NOT EQUIPPED WITH AT LEAST ONE SEATING POSITION), LAWN TRACTORS, SELF-PROPELLED FARMING AND CONSTRUCTION EQUIPMENT, BOATS, AIRCRAFT, WHEELCHAIRS AND OTHER MOBILITY AIDS. THIS INCLUDES VEHICLES TRANSPORTED IN A PACKAGING. IN THIS CASE SOME PARTS OF THE VEHICLE MAY BE DETACHED FROM ITS FRAME TO FIT INTO THE PACKAGING. REFERENCE: 49 CFR 172.102, SP 134.
- 
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.



**PACKAGE DOES NOT REQUIRE ANY HAZARD MARKS OR LABELS.**

© HAZMATEAM, INC, REFERENCE:

**DOT GROUND**

Applicability of UN 3171: [49 CFR 172.102, SP 134 \(CLICK\)](#)

Requirements: [49 CFR 173.220 \(a\),\(d\) and \(h\) \(CLICK\)](#)

**NAVIGATE (CLICK):**



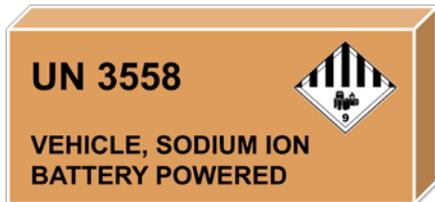
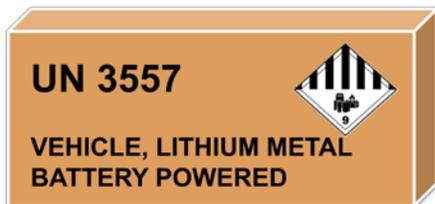
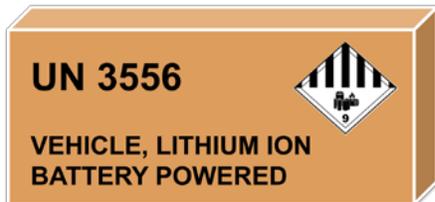
**[BATTERY-POWERED VEHICLES](#)**



# “VEHICLE, ... BATTERY POWERED” SHIPPED VESSEL

- VEHICLE, LITHIUM ION BATTERY POWERED, UN 3556
- VEHICLE, LITHIUM METAL BATTERY POWERED, UN 3557
- VEHICLE, SODIUM ION BATTERY POWERED, UN 3558
- BATTERY SIZE: ALL
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- MODE: VESSEL
- BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
- NO SPARE BATTERIES ARE PERMITTED
- DECLARATION & ER INFO (SDS or ERG Page): YES
- DECLARATION & ER INFO NOT REQUIRED IF IMDG SP 961 IS APPLICABLE
- FREIGHT CONTAINERS REQUIRE PLACARDS IF VEHICLE IS PACKAGED & SP 961 IS NOT APPLICABLE
- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL, LITHIUM ION OR SODIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES OR OTHER FUELS, REFER TO IMDG SP 388 & 962.
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**
- “VEHICLES ... BATTERY POWERED” ARE SELF-PROPELLED APPARATUS DESIGNED TO CARRY ONE OR MORE PERSONS OR GOODS. SOME PARTS OF THE VEHICLE MAY BE DETACHED FROM ITS FRAME TO FIT INTO THE PACKAGING. REFERENCE: IMDG CODE, SP 388.
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.

IF VEHICLE IS IN OUTER PACKAGE & NOT VISIBLE:



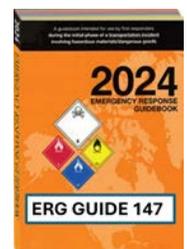
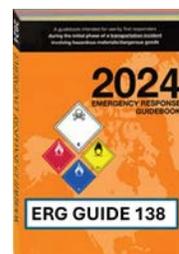
IF VEHICLE IS VISIBLE, NO MARKS / LABELS REQUIRED (IMDG SP 962):



© HAZMATEAM, INC, REFERENCE:  
  
IMDG CODE:  
  
IMDG SPECIAL PROVISIONS 388, 961, & 962

NAVIGATE (CLICK):

[BATTERY-POWERED VEHICLES](#)



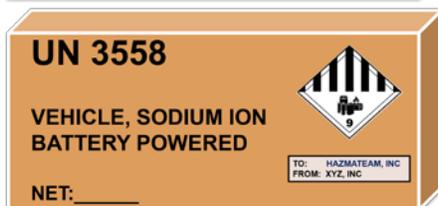
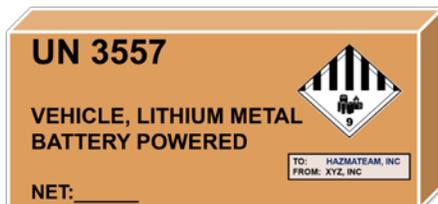
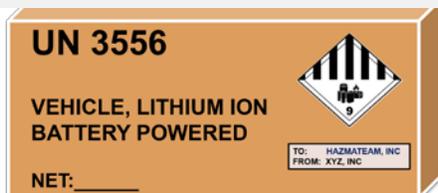
# “VEHICLE, ... BATTERY POWERED” SHIPPED AIR



- VEHICLE, LITHIUM ION BATTERY POWERED, UN 3556
- VEHICLE, LITHIUM METAL BATTERY POWERED, UN 3557
- VEHICLE, SODIUM ION BATTERY POWERED, UN 3558
- BATTERY SIZE: ALL
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- MODE: AIR
- BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
- NO SPARE BATTERIES ARE PERMITTED
- DECLARATION & ER INFO (SDS or ERG Page): YES
- FOR AIR WAYBILL INFORMATION, SEE [AIR WAYBILL \(CLICK\)](#)
- SHIPPABLE VIA US POSTAL SERVICE: **PROHIBITED**
- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL, LITHIUM ION or SODIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES / OTHER FUELS, REFER TO IATA PI 952.
- “VEHICLES ... BATTERY POWERED” ARE SELF-PROPELLED APPARATUS DESIGNED TO CARRY ONE OR MORE PERSONS OR GOODS. SOME PARTS OF THE VEHICLE MAY BE DETACHED FROM ITS FRAME TO FIT INTO THE PACKAGING. REF: IATA DGR SP 214
- FOR UN 3557 in USA, 49 CFR 173.220 (d) PROHIBITS LITHIUM METAL BATTERIES INSTALLED IN VEHICLE ON PASSENGER AIRCRAFT.
- MANY AIRLINES HAVE RESTRICTIONS ON SHIPPING “VEHICLE, .... BATTERY POWERED”
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.



IF VEHICLE IS IN OUTER PACKAGE & NOT VISIBLE:



NET IS THE WEIGHT OF THE VEHICLE

IF VEHICLE IS VISIBLE, NO MARKS OR LABELS (A87):



**FOR UN 3556 & UN 3558:**

IF BATTERY HAS Wh > 100 Wh THE BATTERY STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY OR AN INDICATED BATTERY CAPACITY NOT EXCEEDING 25% CAPACITY. THIS IS RECOMMENDED FOR BATTERIES WITH Wh ≤ 100 Wh.

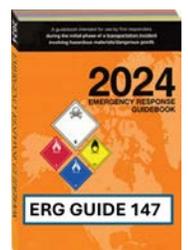
© HAZMATEAM, INC,

IATA DGR REFERENCE:

SPECIAL PROVISIONS: A87, A185, A214 & PI 952

NAVIGATE (CLICK):

[BATTERY-POWERED VEHICLES](#)



# OVERPACKS



An enclosure that contains properly marked and labeled packages is an 'overpack' as defined in 49 CFR 171.8, IATA Appendix A and IMDG Section 1.2.1.

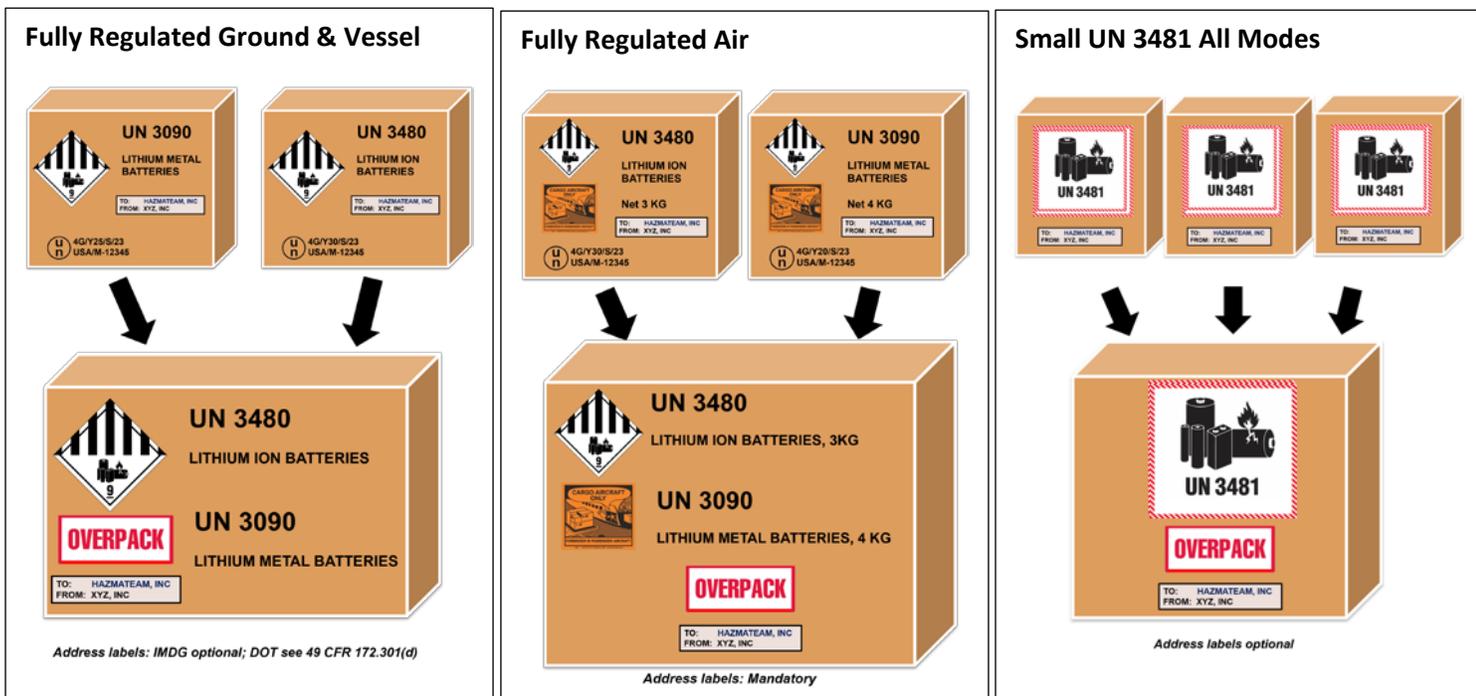
Examples of enclosures used for overpacks are crates, boxes, pallets wrapped in shrink-wrap, etc. **An 'overpack' is not a 'package'.** An overpack may contain authorized packages of lithium batteries and packages containing non-regulated materials.

If packages within an overpack are not visible, all marks and labels must be reproduced on the overpack and the overpack must be marked 'OVERPACK' with letters at least 12 mm high. Package specification marks are not reproduced.

For air transport, when a declaration is required, the declaration **must** identify when an overpack is used. See IATA 8.1.6.9.1 Step 7 and [example 11](#) (click) of this guide.

US Postal Service (PUB 52) does not recognize the use of overpacks.

Overpack marking examples:



**© HAZMATEAM, INC.**

**REFERENCES:**

**DOT Marking:** 49 CFR 173.25 (a)(2),(4) and 173.185 (c)(3)(iii), (c)(4)(ii).

**IATA Marking:** IATA 7.1.7 and Section II of PI 966,967,969 & 970 and Section IB of PI 965 & 968

**IATA Declarations:** IATA 8.1.6.9.1, Step 7

**IMDG Marking:** IMDG 5.1.2 and special provision 188 (paragraph 6)

**NAVIGATE (CLICK):**



## SHIPPING PAPER/DECLARATION EXAMPLES

The following are examples of completed shipping papers/declarations. Always consult the appropriate regulation for complete details:

**USA Ground:** [49 CFR 172.200 \(CLICK\)](#)  
**International vessel:** IMDG Code, Volume 1, Chapter 5.4  
**International air:** IATA DGR, Section 8

EXAMPLE #	MODE	CONSIGNMENT
<a href="#">1 (click)</a>	Ground	UN 3480, UN 3551 and non-regulated material
<a href="#">2 (click)</a>	Ground	UN 3091, Lithium Metal Batteries Packed with Equipment in an overpack
<a href="#">3 (click)</a>	Ground	Wooden crates - UN 3481, Lithium Ion Batteries Contained in equipment and non-regulated material
<a href="#">4 (click)</a>	Vessel	Consignment of UN 3090, UN 3091 ('packed with') and UN 3091 ('contained in')
<a href="#">5 (click)</a>	Vessel	250 packages of UN 3552, Sodium Ion Batteries Contained in Equipment loaded into a freight container
<a href="#">6 (click)</a>	Vessel	Packages of UN 3480 and UN 3090 contained in an overpack
<a href="#">7 (click)</a>	Air	Fully regulated UN 3090 shipped according to IATA PI 968 Section IA
<a href="#">8 (click)</a>	Air	Small UN 3090 shipped according to IATA PI 968 Section IB
<a href="#">9 (click)</a>	Air	Fully regulated UN 3480 shipped according to IATA PI 965 Section IA
<a href="#">10 (click)</a>	Air	SMALL UN 3480 batteries shipped according to IATA PI 965 Section IB
<a href="#">11 (click)</a>	Air	UN 3481, Lithium Ion Batteries Contained in Equipment within an overpack
<a href="#">12 (click)</a>	Air	UN 3091, Lithium Metal Batteries packed with equipment. Shipped out of USA.
<a href="#">13 (click)</a>	Vessel	UN 3557, Vehicle, Lithium Metal Battery Powered
<a href="#">14 (click)</a>	Air	UN 3556, Vehicle, Lithium Ion Battery Powered
<a href="#">15 (click)</a>	Air	UN 3551, Sodium Ion Batteries

**NAVIGATE (CLICK):**



[\*\*AIR WAYBILLS\*\*](#)

**EXAMPLE 1**

- 10 FIBREBOARD BOXES of UN 3480, Lithium Ion Batteries (NO EQUIPMENT) : Each Box contains 5 KG net batteries; Each Box weighs 11 KG, GROSS
- 2 FIBREBOARD BOXES of UN 3551, Sodium Ion Batteries (NO EQUIPMENT): Each Box contains 15 KG net of batteries; Each Box weighs 30 KG, GROSS
- 2 Bags of non-regulated material

**STRAIGHT BILL OF LADING FORM**

PAGE 1 OF 1

DATE: **JANUARY 28, 2025**

TO Consignee <b>XYZ INC</b>	FROM Consignor <b>HAZMATEAM, INC</b>
Address <b>123 MAIN STREET KANSAS CITY, MO 64030</b>	Address <b>12 KIMBALL HILL ROAD HUDSON, NH 03051</b>

24-HOUR EMERGENCY RESPONSE TELEPHONE: **800-535-5053; INFOTRAC ACCT. 12345**

No. of Units & Container Type	HM	BASIC DESCRIPTION (ID#, Proper Shipping Name, Hazard Class, PG)	TOTAL QUANTITY
10 BOXES	X	UN 3480, LITHIUM ION BATTERIES, 9 ERG GUIDE NO. 147	110 KG (GROSS) 50 KG (NET)
2 BOXES	X	UN 3551, SODIUM ION BATTERIES, 9 ERG GUIDE NO. 147	60 KG (GROSS) 30 KG (NET)
2 BAGS		NON-REGULATED MATERIAL	5 KG (GROSS)

**TOTAL QTY, CAN BE NET OR GROSS**

**'X' IN HM COLUMN IF HAZARDOUS**

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.	SIGNATURE: <i>Drake Maye</i>	<b>TRAINED PERSON'S SIGNATURE</b>
---	---------------------------------	-----------------------------------

**NAVIGATE (CLICK):**



## EXAMPLE 2

- 20 Plywood boxes of Lithium Metal Batteries Packed with Equipment: Each Package contains 3 Kg, net lithium metal batteries; Each Package weighs 10 KG, GROSS WT
- All 20 boxes are on a pallet, shrunk wrapped (an overpack)

### STRAIGHT BILL OF LADING FORM

PAGE 1 OF 1

DATE: **JANUARY 1, 2024**

TO Consignee <b>XYZ INC</b>	FROM Consignor <b>HAZMATEAM, INC</b>
Address <b>123 MAIN STREET KANSAS CITY, MO 64030</b>	Address <b>12 KIMBALL HILL ROAD HUDSON, NH 03051</b>

24-HOUR EMERGENCY RESPONSE TELEPHONE: **800-535-5053; INFOTRAC ACCT. 12345**

**IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER**

No. of Units & Container Type	HM	BASIC DESCRIPTION (ID#, Proper Shipping Name, Hazard Class, PG)	TOTAL QUANTITY
<b>20 BOXES (4D)</b>	<b>X</b>	<b>UN 3091, LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, 9 ERG GUIDE NO. 138  ABOVE PACKED IN 1 OVERPACK</b>	<b>200 KG (GROSS)  60 KG (NET)</b>

**TOTAL QTY, CAN BE NET OR GROSS**

**OVERPACK CONTAINS 20 PROPERLY MARKED AND LABELED PACKAGES**

**'X' IN HM COLUMN IF HAZARDOUS**

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SIGNATURE:

*Bailey Zappe*

**TRAINED PERSON'S SIGNATURE**

**NAVIGATE (CLICK):**



**EXAMPLE 3**

10 WOODEN CRATES; Each crate contains a piece of equipment with one lithium ion battery installed. The net wt of the battery = 7 KG; The gross wt of one completed crate = 20 KG. The crates are not placed in an overpack.

Consignment also includes 2 bags of non-regulated material.

**STRAIGHT BILL OF LADING FORM**

PAGE 1 OF 1

DATE: **JANUARY 1, 2024**

TO Consignee <b>XYZ INC</b>	FROM Consignor <b>HAZMATEAM, INC</b>
Address <b>123 MAIN STREET KANSAS CITY, MO 64030</b>	Address <b>12 KIMBALL HILL ROAD HUDSON, NH 03051</b>

24-HOUR EMERGENCY RESPONSE TELEPHONE: **800-535-5053; INFOTRAC ACCT. 12345**

**IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER**

No. of Units & Container Type	HM	BASIC DESCRIPTION <i>(ID#, Proper Shipping Name, Hazard Class, PG)</i>	TOTAL QUANTITY
<b>10 WOODEN CRATES</b>	<b>X</b>	<b>UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9 ERG GUIDE NO. 147</b>	<b>200 KG (GROSS) 70 KG (NET)</b>
<b>2 BAGS</b>		<b>NON-REGULATED MATERIAL</b>	<b>5 KG (GROSS)</b>

**'X' IN HM COLUMN IF HAZARDOUS**

**TOTAL QTY, CAN BE NET OR GROSS**

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SIGNATURE:

*7. Kelce*

**TRAINED PERSON'S SIGNATURE**

**NAVIGATE (CLICK):**



EMERGENCY RESPONSE INFORMATION



# EXAMPLE 4

**UN 3090:** Each box contains 5 kg of lithium metal batteries; **UN 3091, 'packed with'**, box contains one 5 kg lithium metal battery in same package with equipment; **UN 3091, 'contained in'** box contains one 12 kg lithium battery installed in equipment

The four packages are sent to a freight forwarder.

## MULTIMODAL DANGEROUS GOODS FORM

1 Shipper/Consignor/Sender HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON NH 03051 USA		2 Transport document number	
6 Consignee HAZMATEAM - JAMAICA 21 RASTA WAY KINGSTON JAMAICA		7 Carrier	
10 Vessel		11 Port of loading	
12 Port of discharge		13 Destination	
14 Shipping marks		9 Additional handling instructions	
15 Container identification No./		16 Seal number(s)	
17 Cont./vehicle size & type		18 Tare me	
20 Name of company		21 RECEIVING ORGANIZATION RECEI	
Name/status of declarant		22 Name of co. of shipper preparing this note	
Place and date		Name/status of declarant	
Signature of declarant		Place and date	
		Signature of declarant	
		Driver's signature	
		Signature of declarant	

**IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS**

**SHIPPER'S DECLARATION**  
I hereby declare that the contents of this consignment are fully and accurately described below by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.

24 HR ER - INFOTRAC 1-011-352-323-3500; Contract ID - 123S3B

14 Shipping marks	*) Number and kind of packages: description of goods	Gross mass (kg)	Net	Cube (m <sup>3</sup> )
<div style="background-color: #cccccc; padding: 5px;">IMDG EMS – COLUMN 15 OF DGL</div> <div style="background-color: #cccccc; padding: 5px;">DOT ERG – ‘ORANGE BOOK’ CODE</div> <div style="background-color: #ffcc00; padding: 5px;">PACKAGE CODES (EX – 4G) OPTIONAL</div>	UN 3090, LITHIUM METAL BATTERIES, 9 IMDG EMS: F-A, S-I; DOT ERG 138 2 (4G) FIBREBOARD BOXES	30 KG	10 KG	
	UN 3091, LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, 9 IMDG EMS: F-A, S-I; DOT ERG 138 1 (4G) FIBREBOARD BOX	25 KG	5 KG	
	UN 3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9 IMDG EMS: F-A, S-I; DOT ERG 138 1 PLYWOOD BOX	66 KG	12 KG	

**BOX 22 ALWAYS REQUIRES A SIGNATURE BY TRAINED SHIPPER**

NAVIGATE (CLICK):



EMERGENCY  
RESPONSE  
INFORMATION





**EXAMPLE 6**

**UN 3480:** 5 Packages of rechargeable lithium batteries (no equipment), each box contains 5 kg of batteries;  
**UN 3090:** 10 packages of non-rechargeable lithium batteries (no equipment), each box contains 3 KG of batteries.  
 The 15 packages are placed on pallet and shrunk wrapped. The overpack was sent to a freight forwarder.

**MULTIMODAL DANGEROUS GOODS FORM**

1 Shipper/Consignor/Sender HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON NH 03051 USA		2 Transport document number	
		3 Page 1 of 1 pages	4 Shipper's reference
		Booking Number	5 Freight forwarder's reference
6 Consignee HAZMATEAM - NETHERLANDS ZANDERSTEEN 66 2669 VL AMSTERDAM NETHERLANDS		7 Carrier <b>IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS</b>	
10 Vessel	11 Port of loading	<b>SHIPPER'S DECLARATION</b> I hereby declare that the contents of this consignment are fully and accurately described below by the Proper Shipping Name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.	
12 Port of discharge	13 Destination	9 Additional handling instructions 24 HR ER - INFOTRAC 1-011-352-323-3500; Contract ID - 123S3B	
14 Shipping marks	*) Number and kind of packages: description of goods		Gross mass (kg) Net Cube (m <sup>3</sup> )
IMDG EMS – COLUMN 15 OF DGL  DOT ERG – 'ORANGE BOOK' CODE  <b>PACKAGE CODES (EX – 4G) OPTIONAL</b>	UN 3480, LITHIUM ION BATTERIES, 9 IMDG EMS: F-A, S-I; DOT ERG 147 5 (4G) FIBREBOARD BOXES		50 KG 25 KG
	UN 3090, LITHIUM METAL BATTERIES, 9 IMDG EMS: F-A, S-I; DOT ERG 138 10 (4G) FIBREBOARD BOXES		120 KG 30 KG
	ABOVE PLACED INTO 1 OVERPACK		
15 Container identification No./	16 Seal number(s)	17 Cont./vehicle size & type	18 Tar (g)
<b>CONTAINER/VEHICLE PACKING CERTIFICATE</b> I hereby declare that the goods described above have been packed/loaded, packed together, into the container/vehicle identified above in accordance with the applicable provisions.**) <b>MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING</b>		21 RECEIVING ORGANIZATION RECEIVED Received the above number of packages unless stated hereon: RECEIVING ORGANIZATION	
20 Name of company		Haulier's name	22 Name of co. of shipper preparing this note
Name/status of declarant		Vehicle reg. no	HAZMATEAM, INC.
Place and date		Signature and date	Name/status of declarant Stephanie Traverse, Shipper
Signature of declarant		Driver's signature	Place and date Hudson, NH, 1-JAN-2024
			Signature of declarant <i>Steph Traverse</i>

**BOX 22 ALWAYS REQUIRES A SIGNATURE BY TRAINED SHIPPER**

**NAVIGATE (CLICK):**



EMERGENCY RESPONSE INFORMATION



# EXAMPLE 7

2 FIBREBOARD BOXES. Each box contains 4 KG net of FULLY REGULATED lithium metal batteries shipped according to IATA PI 968 Section IA

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. <b>6980</b> Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)				
Consignee <b>PHOENIX PARTS</b> 123 MAIN STREET PHOENIX, AZ 77777		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>				
This shipment is within the limitations prescribed for: (delete non-applicable)		Airport of Departure <b>MANCHESTER, NH</b>				
<table border="1"> <tr> <td style="text-align: center;"><del>XXXX</del> PASSENGER AIRCRAFT</td> <td style="text-align: center;"> CARGO AIRCRAFT ONLY</td> </tr> </table>		<del>XXXX</del> PASSENGER AIRCRAFT	 CARGO AIRCRAFT ONLY	WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.		
<del>XXXX</del> PASSENGER AIRCRAFT	 CARGO AIRCRAFT ONLY					
Airport of Destination <b>PHOENIX, AZ</b>		Shipment Type (delete non-applicable) NON-RADIOACTIVE <del>XXXXXX</del>				
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3090	LITHIUM METAL BATTERIES	9		2 FIBREBOARD BOXES x 4 KG	968	
Additional Handling Information <b>ICAO/IATA ERG CODE: 12FZ; DOT ERG 138</b>				<b>NUMBER OF PACKAGES X NET WT PER PACKAGE</b>		
Emergency Telephone Number <b>INFOTRAC, 800-535-5053 (CONTRACT 12345)</b>				Name of signatory <b>Paul Dambek</b>		
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national government regulations.				Date <b>1-JAN-2024</b>		
IF USING 3 <sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER				Signature <i>Paul J. Dambek</i>		

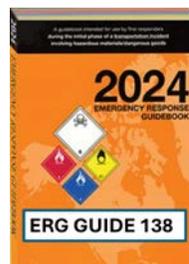
**SHIPMENT CANNOT GO ON PASSENGER AIR**



**ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE**



**NAVIGATE (CLICK):**



**EMERGENCY RESPONSE INFORMATION**



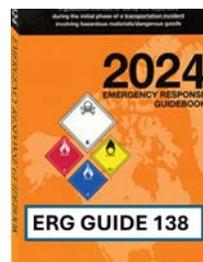
# EXAMPLE 8

One box contains 2 KG net of SMALL lithium metal batteries shipped according to IATA PI 968 Section IB. Cannot exceed 2.5 kg (net) per pkg.

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. <b>6980</b> Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)			
Consignee <b>PHOENIX PARTS</b> 123 MAIN STREET PHOENIX, AZ 77777		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>			
Person authorized to be contacted by the operator. <b>SHIPMENT CANNOT GO ON PASSENGER AIR</b>		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.			
<b>TRANSPORT DETAILS</b> This shipment is within the limitations prescribed for: (delete non-applicable) <table border="1"><tr><td><del>PASSENGER AIRCRAFT</del></td><td>CARGO AIRCRAFT ONLY</td></tr></table>		<del>PASSENGER AIRCRAFT</del>	CARGO AIRCRAFT ONLY	Airport of Departure <b>MANCHESTER, NH</b>	
<del>PASSENGER AIRCRAFT</del>	CARGO AIRCRAFT ONLY				
Airport of Destination <b>PHOENIX, AZ</b>		Shipment Type (delete non-applicable) NON-RADIOACTIVE <del>OTHER</del>			
NATURE AND QUANTITY OF DANGEROUS GOODS					
Dangerous Goods Identification					
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Group Hazard)	Quantity and Type of Packing	Packing Instructions	Authorization
<b>UN 3090</b>	<b>LITHIUM METAL BATTERIES</b>	<b>9</b>	<b>1 FIBREBOARD BOX x 2 KG</b>	<b>968 IB</b>	
Additional Handling Information <b>ICAO/IATA ERG CODE: 12FZ; DOT ERG 138</b>					
Emergency Telephone Number <b>INFOTRAC, 800-535-5053 (CONTRACT 12345)</b>					
I hereby declare that the contents of this consignment are fully and accurately described above by the Shipper and are ready for transport in the condition in which they are being offered for transport. <b>IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER</b>		Name of Signatory <b>Paul Dambek</b> Date <b>1-JAN-2024</b> Signature (see warning above) <i>Paul J. Dambek</i>			

NAVIGATE (CLICK):



# EXAMPLE 9

5 FIBREBOARD BOXES. Each box contains 20 KG net of FULLY REGULATED lithium ion batteries shipped according to IATA PI 965 Section IA

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)				
Consignee <b>GIZMO EMPORIUM</b> 19 BOWDOIN STREET BLOOMINGTON, IL 61761		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>				
This shipment is within the limitations prescribed for: (delete non-applicable)		must be handed to the operator.				
<b>TRANSPORT DETAILS</b>		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
Airport of Departure		Airport of Destination				
Shipment Type (delete non-applicable) NON-RADIOACTIVE <b>XXXXXX</b>						
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3480	LITHIUM ION BATTERIES	9		5 FIBREBOARD BOXES x 20 KG	965	
Additional Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 147						
Emergency Telephone Number INFOTRAC, 800-535-5053 (CONTRACT 12345)						
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport.		Name of Signatory <b>Stephanie Traverse</b>				
IF USING 3 <sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER		Date <b>5-FEB-2024</b>				
		Signature <i>Steph Traverse</i>				
		(see warnings above)				

**SHIPMENT CANNOT GO ON PASSENGER AIR**

### TRANSPORT DETAILS

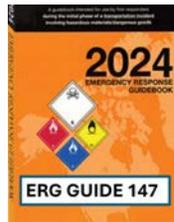
This shipment is within the limitations prescribed for:  
(delete non-applicable)

PASSENGER AIRCRAFT <b>XXXXX</b>	CARGO AIRCRAFT ONLY
------------------------------------	---------------------

ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE

**NUMBER OF PACKAGES X NET WT PER PACKAGE**

**NAVIGATE (CLICK):**



EMERGENCY RESPONSE INFORMATION



# EXAMPLE 10

2 Fibreboard boxes each containing 9 KG (net) of SMALL lithium ion batteries shipped according to IATA PI 965 Section IB

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

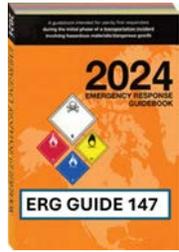
Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)				
Consignee <b>GIZMO EMPORIUM</b> 19 BOWDOIN STREET BLOOMINGTON, IL 61761		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>				
<b>SHIPMENT CANNOT GO ON PASSENGER AIR</b>		Permitted to the operator. WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AIRCRAFT <b>XXXXX</b> CARGO AIRCRAFT ONLY		Airport of Departure				
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE <b>XXXXX</b>				
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3480	LITHIUM ION BATTERIES	9		2 FIBREBOARD BOXES x 9 KG	965 IB	
Additional Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 147						
Emergency Telephone Number INFOTRAC, 800-535-5053 (CONTRACT 12345)						
I hereby declare that all of the applicable air transport requirements have been met.		Name of Signatory Date Signature (see warning above)		Stephanie Traverse 11-JAN-2024 <i>Steph Traverse</i>		

ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE

NUMBER OF PACKAGES X NET WT PER PACKAGE

WHEN SHIPPING PI SECTION IB, MUST INCLUDE 'IB'. ALTERNATIVELY, CAN ADD 'IB' TO AUTHORIZATION COLUMN

NAVIGATE (CLICK):



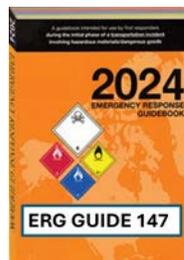
# EXAMPLE 11

10 boxes of UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT. Shipped according to IATA PI 967 Section I. Each box contains 4 KG (net) of rechargeable lithium batteries. All 10 boxes placed onto a pallet and shrunk wrapped (i.e., 'OVERPACK').

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)					
Consignee <b>GIZMO EMPORIUM</b> 19 BOWDOIN STREET BLOOMINGTON, IL 61761		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>					
Per <b>PASSENGER AIR LIMIT PER PACKAGE = 5 KG</b> be handed to the operator.		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.					
This shipment is within the limitations prescribed for: (delete non-applicable) <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">PASSENGER AND CARGO AIRCRAFT</div> <div style="border: 1px solid black; padding: 2px;">CARGO AIRCRAFT ONLY <b>XXXX</b></div> </div>		Airport of Departure					
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE <b>XXXXXX</b>					
NATURE AND QUANTITY OF DANGEROUS GOODS							
Dangerous Goods Identification							
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization	
UN 3481	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	9		10 FIBREBOARD BOXES x 4 KG <b>OVERPACK USED</b>	967		
ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE				<b>NUMBER OF PACKAGES X NET WT PER PACKAGE</b>		<b>MUST USE PHRASE 'OVERPACK USED' WHEN PACKAGES WITHIN AN OVERPACK</b>	
Additional Handling Information <b>ICAO/IATA ERG CODE: 12FZ; DOT ERG 147</b>				<b>IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER</b>			
Emergency Telephone Number <b>INFOTRAC, 800-535-5053 (CONTRACT 12345)</b>				I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to the applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.			
Name of Signatory <b>Mac Jones</b>		Date <b>19-JAN-2024</b>		Signature <i>M. Jones</i>		(see warning above)	

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION



# EXAMPLE 12

4 packages of UN 3091, Lithium metal batteries packed with equipment. Shipped according to IATA PI 969 Section I. Each package contains 6 KG (net) of non-rechargeable lithium batteries and equipment (batteries not installed). Shipped out of USA.

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051 USA		Air Waybill No. Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)				
Consignee <b>BATTERIES ITALIA</b> VIA CASTRO PRETORIO 199 OFFICES VIA GAETA 99 00188 ROME ITALY		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>				
<b>MUST GO CARGO AIRCRAFT ONLY WHEN PACKAGE EXCEEDS 5 KG NET OF BATTERIES</b>		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
<b>TRANSPORT DETAILS</b> This shipment is within the limitations prescribed for: (delete non-applicable) <table border="1"><tr><td><del>PASSENGER AIRCRAFT</del></td><td>CARGO AIRCRAFT ONLY</td></tr></table>		<del>PASSENGER AIRCRAFT</del>	CARGO AIRCRAFT ONLY	Airport of Departure		
<del>PASSENGER AIRCRAFT</del>	CARGO AIRCRAFT ONLY					
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE <del>HAZARDOUS</del>				
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3091	LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT	9		4 FIBREBOARD BOXES x 6 KG	969	
Additional Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 138				<b>NUMBER OF PACKAGES X NET WT PER PACKAGE</b>		
Emergency Telephone Number INFOTRAC, 1-011-352-323-3500 (CONTRACT 12345)						
I hereby declare that the contents of this declaration are true and correct. I am responsible for the accuracy of the information provided and for the proper packaging, marking, labeling, and documentation of the goods. I understand that the goods described herein are subject to the applicable regulations and that I am responsible for compliance with these regulations. I have read and understand the applicable regulations and I have taken the necessary steps to ensure compliance with these regulations.		Name of Signatory <b>Paul Dambek</b>		Date <b>12-FEB-2024</b>		
<b>IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS</b>		Signature <i>Paul J. Dambek</i>				

NAVIGATE (CLICK):



# EXAMPLE 13

2 packages (plywood boxes). Each box contains 1 robot with a lithium metal battery installed. The robot weighs 55 KG. The robot moves finished goods in a warehouse. Shipped out of USA via international vessel.

## MULTIMODAL DANGEROUS GOODS FORM

1 Shipper/Consignor/Sender HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON NH 03051 USA		2 Transport document number	
6 Consignee BRITISH ROBOT COMPANY WESTMINSTER, LONDON, SW1A 1AA, UNITED KINGDOM		7 Carrier	
10 Vessel		11 Port of loading	
12 Port of discharge		13 Destination	
3 Page 1 of 1 pages		4 Shipper's reference	
Booking Number		5 Freight forwarder's reference	
<p><b>IF USING 3<sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS</b></p> <p>SHIPPER: I hereby declare that the goods described above are properly packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.</p> <p>24 HR ER - INFOTRAC 1-011-352-323-3500; Contract ID - 123S3B</p>			
14 Shipping marks		15 Number and kind of packages; description of goods	
IMDG EMS – COLUMN 15 OF DGL		UN 3557, VEHICLE, LITHIUM METAL BATTERY POWERED, 9, IMDG EMS: F-A, S-I; DOT ERG 138 2 PLYWOOD BOXES	
DOT ERG – 'ORANGE BOOK' CODE		Gross mass (kg) Net Cube (m <sup>3</sup> )	
UN PACKAGING NOT R'D		110 KG	
BOX 22 ALWAYS REQUIRES A SIGNATURE BY TRAINED SHIPPER			
15 Container identification No./		16 Seal number(s)	
17 Cont./vehicle size & type		18 Tare mass (kg)	
19 Total gross mass (including tare) (kg)			
CONTAINER/VEHICLE PACKING CERTIFICATE I hereby declare that the goods described above have been packed/loaded, packed together, into the container/vehicle identified above in accordance with the applicable provisions.**) <b>MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING</b>		21 RECEIVING ORGANIZATION RECEIPT Received the above number of packages/containers/trailers in apparent good order and condition, unless stated hereon: RECEIVING ORGANIZATION REMARKS:	
20 Name of company		Haulier's name	
Name/status of declarant		Vehicle reg. no	
Place and date		Signature and date	
Signature of declarant		Driver's signature	
		22 Name of co. of shipper preparing this note HAZMATEAM	
		Name/status of declarant Leo Traverse, Shipper	
		Place and date Hudson, NH, 23-JAN-2025	
		Signature of declarant Leo Traverse	

NAVIGATE (CLICK):



EMERGENCY  
RESPONSE  
INFORMATION



**EXAMPLE 14**

**3 packages (fibreboard boxes). Each box contains 1 bicycle with a lithium ion battery installed. Each bicycle weighs 20 KG. Shipped air transport.**

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)				
Consignee <b>NEW AGE BICYCLE INC</b> 1214 COMMERCE BLVD ST. PAUL, MN 55105		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>				
This shipment must be handed to the operator.		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
<b>TRANSPORT DETAILS</b>						
This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i>		Airport of Departure				
<table border="1"> <tr> <td>PASSENGER AND CARGO AIRCRAFT</td> <td>CARGO AIRCRAFT ONLY <b>XXXX</b></td> </tr> </table>		PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY <b>XXXX</b>			
PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY <b>XXXX</b>					
Airport of Destination		Shipment Type <i>(delete non-applicable)</i> NON-RADIOACTIVE <b>XXXXXX</b>				
<b>NATURE AND QUANTITY OF DANGEROUS GOODS</b>						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3556	VEHICLE, LITHIUM ION BATTERY POWERED	9		3 FIBREBOARD BOXES x 20 KG	952	
ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE				NUMBER OF PACKAGES X WT OF EACH VEHICLE PER PACKAGE		
Additional Handling Information <b>ICAO/IATA ERG CODE: 12 FZ; DOT ERG 147</b>						
Emergency Telephone Number <b>INFOTRAC, 800-535-5053 (CONTRACT 12345)</b>						
I hereby declare that the contents of this consignment are fully and accurately			Name of Signatory <b>Stephanie Traverse</b>			
IF USING 3 <sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER			Date <b>24-JAN-2025</b>			
			Signature <i>Steph Traverse</i>			

**NAVIGATE (CLICK):**



**EMERGENCY RESPONSE INFORMATION**



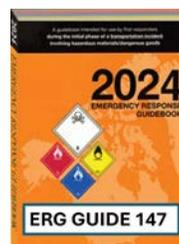
**EXAMPLE 15**

**2 packages (fibreboard boxes) containing sodium ion batteries (no equipment). Each package contains 1 KG of sodium ion batteries. Each battery watt hour rating = 50 Wh.**

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper <b>HAZMATEAM, INC</b> 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page <b>1</b> of <b>1</b> Pages Shipper's Reference Number (optional)				
Consignee <b>GIZMO EMPORIUM</b> 19 BOWDOIN STREET BLOOMINGTON, IL 61761		<b>AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE</b>				
to the operator.		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.				
<b>UN 3551 ALWAYS FORBIDDEN FOR PASSENGER AIR</b>						
<b>TRANSPORT DETAILS</b>						
This shipment is within the limitations prescribed for: (delete non-applicable)		Airport of Departure				
<table border="1"> <tr> <td style="text-align: center;">PASSENGER <del>XXXX</del> AIRCRAFT</td> <td style="text-align: center;">CARGO AIRCRAFT ONLY</td> </tr> </table>		PASSENGER <del>XXXX</del> AIRCRAFT	CARGO AIRCRAFT ONLY			
PASSENGER <del>XXXX</del> AIRCRAFT	CARGO AIRCRAFT ONLY					
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE <del>XXXXXX</del>				
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3551	SODIUM ION BATTERIES	9		2 FIBREBOARD BOXES x 1 KG	976	
NOTE: All UN 3551 ARE FULLY REGULATED, REGARDLESS OF WATT HOUR RATING				NUMBER OF PACKAGES X WT OF BATTERIES PER PACKAGE		
ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE						
Additional Handling Information: ICAO/IATA ERG CODE: 12FZ; DOT ERG 147						
Emergency Telephone Number: INFOTRAC, 800-535-5053 (CONTRACT 12345)						
I hereby declare that the contents of this consignment are fully and accurately			Name of Signatory: <b>Stephanie Traverse</b>			
IF USING 3 <sup>RD</sup> PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER			Date: <b>24-JAN-2025</b>			
			Signature: <i>Steph Traverse</i>			
			(see warning above)			

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION



## AIR WAYBILLS (AWB)

An air waybill is one of the shipping documents, for air transport, that is issued by the sender to provide detailed information about the goods being shipped to the receiver. It has been said that an AWB is “a ticket” for the package to get on an airplane. Some carriers use AWBs, others do not. For an overview of AWBs, visit: <https://www.investopedia.com/terms/a/airway-bill.asp#:~:text=Key%20Takeaways,agreement%20that's%20enforceable%20by%20law.>

**IATA DGR section 8.2** identifies specific Dangerous Goods language that must be included on the AWB. Note that unlike the Dangerous Goods Declaration form, there is no specific format to the AWB.

### SHIPMENTS THAT REQUIRE A DECLARATION.

The ‘handling information’ portion of the air waybill must have the following DG language when a declaration is required.

For shipments allowed for both passenger or cargo aircraft that require a declaration:

<b>AIR WAYBILL</b>
Handling Information
DANGEROUS GOODS AS PER ASSOCIATED SHIPPER’S DECLARATION

When a shipment requires a declaration, and the shipment must be shipped Cargo Aircraft Only:

<b>AIR WAYBILL</b>
Handling Information
DANGEROUS GOODS AS PER ASSOCIATED SHIPPER’S DECLARATION – CARGO AIRCRAFT ONLY

### SHIPMENTS THAT DO NOT REQUIRE A DECLARATION.

Shipments prepared according to Section II of IATA PI 966, 967, 969, 970, 977 and 978 do not require a declaration. These are the **small** “...contained in equipment” and “...packed with equipment” entries.

For these shipments, when the battery mark must be affixed to the package the ‘nature and quantity of goods’ portion of the air waybill must include the following text: “XX Batteries in compliance with Section II of PI XX”. This text is described in each applicable packing instruction section. For example:

<b>AIR WAYBILL</b>	
Handling Information	
	Nature and Quantity of Goods
	LITHIUM METAL BATTERIES IN COMPLIANCE WITH SECTION II OF PI 969



**NAVIGATE (CLICK):**



## EMERGENCY RESPONSE INFORMATION

When shipping papers (Bill of lading forms, Dangerous Goods Declaration forms) are required, all lithium and sodium ion battery shipments to, from or through the United States must have written emergency response information accompany the shipment. This written document is typically either a SDS for the material or the applicable ERG pages from the DOT Emergency Response Guidebook (i.e., ‘Orange Book’). Applicable ERG Codes from the Orange Book are: Guide 138 (Lithium metal batteries) and Guide 147 (Lithium Ion and Sodium Ion batteries).

On each shipping paper example provided in this guide, either DOT ERG GUIDE 138 or 147 is referenced. Simply writing the guide number only on the BOL/declaration does not meet the emergency response information requirements described in [49 CFR 172.602](#). Written information (the SDS or ERG pages) must be provided along with the shipping paper.

All shipping papers for shipments from, to or through the United States must also have 24-hour emergency telephone number, as described in [49 CFR 172.604](#). Each shipping paper example provided in this guide illustrates placement of the ER phone number.

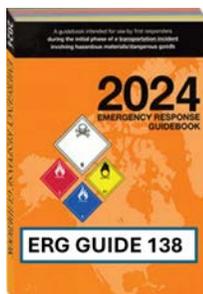
The shipping paper examples provided in this guide also reference emergency response guidebooks used by personnel on vessels or aircraft. The vessel and aircraft guides referenced are:

**IMDG CODE:** The EMS Code referenced in column 15 of the IMDG Dangerous Goods List (DGL) is listed in *“The EmS Guide – Emergency Response Procedures for Ships Carrying Dangerous Goods”*.

**IATA DGR:** The IACO/IATA ERG Code referenced in Column N of the IATA DGR Dangerous Goods List (DGL) is the Emergency Response Drill Code as found in the International Civil Aviation Organization (IACO) document, *“The Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods” (ICAO Doc. 9481-AN/928)*.

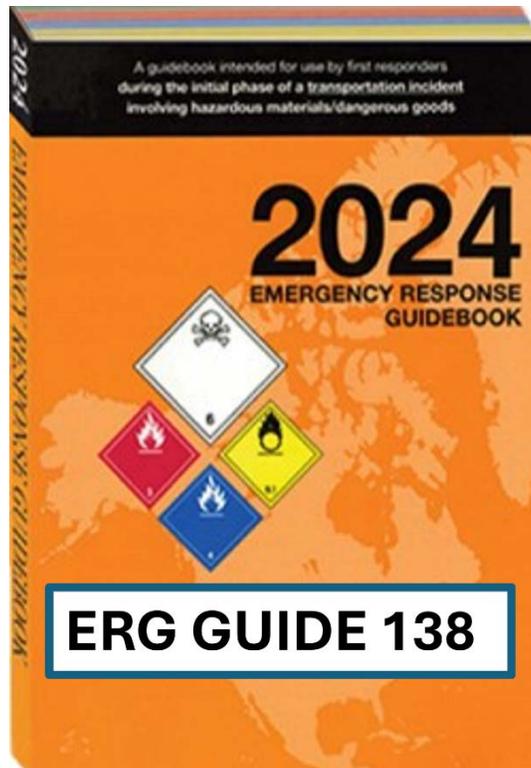
The IMDG Code and IATA DGR emergency response information described on the shipping paper examples in this guide are for the benefit of the operator of the vessel or aircraft.

**NAVIGATE (CLICK):**



**EMERGENCY RESPONSE GUIDE #138 – NEXT PAGE**

**(THIS DOCUMENT OR A SDS FOR BATTERY MUST ACCOMPANY ALL FULLY REGULATED SHIPMENTS OF LITHIUM METAL BATTERIES)**



***NAVIGATE (CLICK):***



# GUIDE 138

## SUBSTANCES - WATER-REACTIVE (EMITTING FLAMMABLE GASES)

### POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- Produce flammable gases on contact with water.
- May ignite on contact with water or moist air.
- Some react vigorously or explosively on contact with water.
- May be ignited by heat, sparks or flames.
- May re-ignite after fire is extinguished.
- Some are transported in highly flammable liquids.
- Runoff may create fire or explosion hazard.

#### HEALTH

- Inhalation or contact with vapors, substance or decomposition products may cause severe injury or death.
- May produce corrosive solutions on contact with water.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause environmental contamination.

### PUBLIC SAFETY

- **CALL 911. Then call emergency response telephone number on shipping paper.** If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

#### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer **when there is NO RISK OF FIRE.**
- Structural firefighters' protective clothing provides thermal protection **but only limited chemical protection.**

#### EVACUATION

##### Immediate precautionary measure

- Isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.

##### Large Spill

- Consider initial downwind evacuation for at least 300 meters (1000 feet).

##### Fire

- If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## EMERGENCY RESPONSE

## FIRE

- **DO NOT USE WATER OR FOAM.**

**Small Fire**

- Dry chemical, soda ash, lime or sand.

**Large Fire**

- DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.
- If it can be done safely, move undamaged containers away from the area around the fire.

**Fire Involving Metals or Powders (Aluminum, Lithium, Magnesium, etc.)**

- Use dry chemical, DRY sand, sodium chloride powder, graphite powder or class D extinguishers; in addition, for Lithium you may use Lith-X® powder or copper powder. Also, see GUIDE 170.

**Fire Involving Tanks, Rail Tank Cars or Highway Tanks**

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks in direct contact with flames.

## SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- **DO NOT GET WATER on spilled substance or inside containers.**

**Small Spill**

- Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- Dike for later disposal; do not apply water unless directed to do so.

**Powder Spill**

- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- **DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.**

## FIRST AID

Refer to the "General First Aid" section.

**Specific First Aid:**

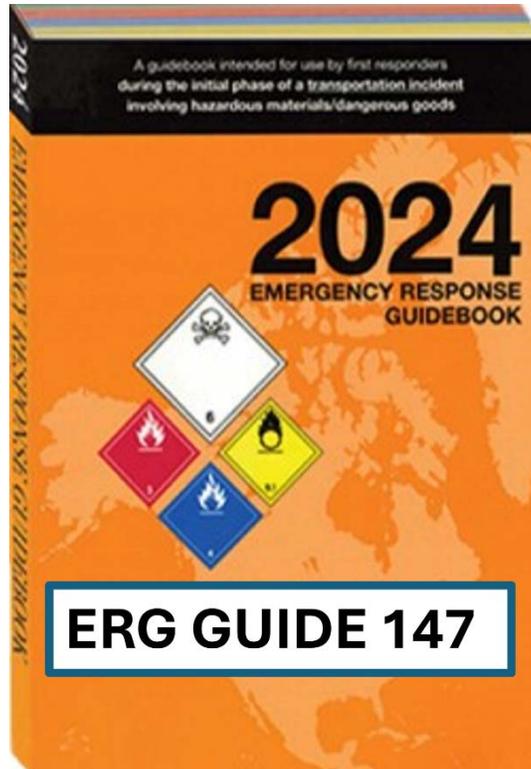
- In case of contact with substance, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

**EMERGENCY RESPONSE GUIDE #147 – NEXT PAGE**

**(THIS DOCUMENT OR A SDS FOR BATTERY MUST ACCOMPANY ALL FULLY REGULATED SHIPMENTS OF LITHIUM ION OR SODIUM ION BATTERIES)**



***NAVIGATE (CLICK):***



**EMERGENCY  
RESPONSE  
INFORMATION**



# GUIDE LITHIUM ION AND SODIUM ION BATTERIES

## 147

### POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- Lithium ion and sodium ion batteries contain flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (> 150°C (302°F)), when damaged or abused (e.g., mechanical damage or electrical overcharging).
- May burn rapidly with flare-burning effect.
- May ignite other batteries in close proximity.

#### HEALTH

- Contact with battery electrolyte may be irritating to skin, eyes and mucous membranes.
- Fire will produce irritating, corrosive and/or toxic gases.
- Burning batteries may produce toxic hydrogen fluoride gas (see GUIDE 125).
- Fumes may cause dizziness or asphyxiation.

### PUBLIC SAFETY

- **CALL 911. Then call emergency response telephone number on shipping paper.** If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

#### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides thermal protection **but only limited chemical protection.**

#### EVACUATION

##### Immediate precautionary measure

- Isolate spill or leak area for at least 25 meters (75 feet) in all directions.

##### Spill

- Increase the immediate precautionary measure distance, in the downwind direction, as necessary.

##### Fire

- If rail car or trailer is involved in a fire, ISOLATE for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

## EMERGENCY RESPONSE

**FIRE**

- A lithium ion or sodium ion battery fire may reignite at any point after the initial fire is extinguished, up to weeks later.
- Use thermal imaging, if available, to continuously monitor the battery.
- Reignition can be accompanied by off-gassing of white smoke or electrical arcs or sparks that reignite with visible flames or fire.

**CAUTION:** The use of salt water for firefighting is not recommended since it may increase production of hydrogen and hydrogen fluoride gas.

**Vehicle Fire**

- If battery is not connected to a vehicle, see “Small Fire or Fire Involving Small Battery” below.
- Check manufacturer’s specific emergency response guide before attempting to disable vehicle.
- Turn off the ignition and disconnect the 12-volt battery if it can be done safely.
- Never cut the high voltage (HV) or medium voltage (MV) cabling.
- Never touch damaged or submerged HV or MV cables or components.
- If available, use **large amount of water** to extinguish or suppress a high-voltage battery fire. Using small amount of water could release toxic gases.
- If possible, spray water directly onto battery.
- DO NOT pierce, cut, pry, or dismantle any of the vehicle’s structure to access the battery. Contact with a high voltage component may cause an electric shock.

**Small Fire or Fire Involving Small Battery (e.g., personal electronic devices, e-bike, etc.)**

- Water spray only (large amounts); do not use dry chemical, CO<sub>2</sub> or Halon®.

**Large Fire or Fire Involving Large Battery or Multiple Small Batteries**

- Allow battery fire to burn itself out and protect surroundings.
- Safely remove undamaged containers from area.
- Apply water spray to neighboring batteries to reduce the spread of the hazard.

**SPILL OR LEAK**

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- Do not touch or walk through spilled material.
- Absorb with earth, sand or other non-combustible material.
- Leaking batteries and contaminated absorbent material should be placed in metal containers.

**FIRST AID**

Refer to the “General First Aid” section.



## PACKAGE TEST REQUIREMENTS

*Most fully regulated packages of lithium batteries and cells require UN Specification packaging.*

*All packages of small and medium lithium batteries require some degree of testing. However, small and medium lithium batteries and cells do not require UN Specification packaging*

*The following pages summarizes package test requirement for the different sizes of batteries shipped via ground (USA), air and vessel.*

*HAZMATEAM, INC. offers package testing services for small and medium lithium batteries.*

*HAZMATEAM, INC also can perform testing of excepted quantity and de minimis quantity packages, plus internal pressure tests for inner containers used to transport liquids. Call 603-882-1112 (or [info@hazmateam.com](mailto:info@hazmateam.com)) for more information or for a quote.*

To determine package test requirements, select (click) one of the following

- [Small or Medium lithium batteries shipped ground domestic USA](#)
- [Small lithium or sodium ion batteries shipped international air](#)
- [Small lithium or sodium ion batteries shipped international vessel](#)
- [Fully regulated, damaged or prototype lithium or sodium ion batteries requiring UN specification packaging](#)

**NAVIGATE (CLICK):**





## SMALL AND MEDIUM LITHIUM BATTERIES SHIPPED USA GROUND<sup>1</sup>

PACKAGE	VIBRATION TEST <sup>2</sup>	DROP TEST <sup>3</sup>
Small UN 3480		
Small UN 3090		
Small UN 3481, "packed with"		
Small UN 3481, "contained in"		
Small UN 3091, "packed with"		
Small UN 3091, "contained in"		
Medium UN 3480		
Medium UN 3090		
Medium UN 3481, "packed with"		
Medium UN 3481, "contained in"		
Medium UN 3091, "packed with"		
Medium UN 3091, "contained in"		

- 1- Does not require UN Specification packaging
- 2- 173.185 (b)(1) references 49 CFR 173 Subpart B. 49 CFR 173 Subpart B includes 49 CFR 173.24a(a)(5) – vibration testing
- 3- 49 CFR 173.185 (c)(2)

**NAVIGATE (CLICK):**





## SMALL LITHIUM BATTERIES SHIPPED AIR<sup>1</sup>

PACKAGE	VIBRATION TEST <sup>2</sup>	DROP TEST <sup>3</sup>	STACK TEST <sup>4</sup>
Small UN 3480			
Small UN 3090			
Small UN 3481, "packed with"			
Small UN 3481, "contained in"			
Small UN 3091, "packed with"			
Small UN 3091, "contained in"			
Small UN 3552, "packed with"			
Small UN 3552, "contained in"			

1- Does not require UN Specification packaging

2- Section IB of IATA PI 965 & 968 and Section II of PI 966,967,969,970, 977 & 978 requires compliance with IATA DGR 5.0.2.4. IATA 5.0.2.4 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.

3- IATA DGR, PI 965 Section IB, PI 966 Section II, PI 968 Section IB , PI 969 Section II and PI 977 Section II

4- IATA DGR, PI 965 Section IB, PI 968 Section IB, PI 967 Section II and PI 970 Section II.

**NAVIGATE (CLICK):**





## SMALL LITHIUM BATTERIES SHIPPED VESSEL<sup>1</sup>

PACKAGE	VIBRATION TEST <sup>2</sup>	DROP TEST <sup>3</sup>
Small UN 3480		
Small UN 3090		
Small UN 3481, "packed with"		
Small UN 3481, "contained in"		
Small UN 3091, "packed with"		
Small UN 3091, "contained in"		
Small UN 3551		
Small UN 3552, "packed with":		
Small UN 3553, "contained in"		

1- Does not require UN Specification packaging

2- IMDG Special Provision 188 paragraph 4 references IMDG 4.1.1.1. IMDG 4.1.1.1 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.

3- IMDG Special Provision 188 paragraph 7

**NAVIGATE (CLICK):**





**FULL REGULATED, DAMAGED OR PROTOTYPE LITHIUM BATTERIES REQUIRING PACKAGING<sup>1</sup>**

PACKAGE <sup>2</sup>	AIR TRANSPORT 	VESSEL TRANSPORT 	DOMESTIC USA GROUND TRANSPORT 
Fully regulated UN 3480			
Fully regulated UN 3090			
Fully regulated UN 3481, “packed with”			
Fully regulated UN 3481, “contained in”	Note 3	Note 4	Note 5
Fully regulated UN 3091, “packed with”			
Fully regulated UN 3091, “contained in”	Note 3	Note 4	Note 5
Fully regulated UN 3551			Note 15
Fully regulated UN 3552, “packed with”			Note 15
Fully regulated UN 3552, “contained in”	Note 3	Note 4	Note 15
Damaged or defective batteries	Note 6	 Note 7	 Note 8
Prototype Batteries	Note 9	 Note 10	 Note 11
Lithium or Sodium Ion batteries weighing 12 KG or more with strong, impact resistant casing	Note 12	Note 13	Note 14

1- Unless otherwise specified, must meet PG II performance standards (“X” or “Y” rated packages).

2- Assemble according to package closure instructions

3- UN packaging not required. IATA 5.0.2.4 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.

4- UN packaging not required. IMDG 4.1.1.1 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.

- 5- UN packaging not required. 49 CFR 173.24a(a)(5) requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.
- 6- Forbidden for air transport, see IATA SP A154
- 7- Packaged according to IMDG P908
- 8- Packaged according to 49 CFR 173.185 (f) at the PG I performance level (“X” package)
- 9- Forbidden for air transport, unless approval from state of origin – see IATA SP A88
- 10- Packaged according to IMDG P910
- 11- Packaged according to 49 CFR 173.185 (e) at the PG I performance level (“X” package)
- 12- UN 3480, UN 3090 and UN 3551 weighing 12 kg or more with strong, impact resistant casing does not require UN packaging. Must have gov’t approval. Otherwise, use UN package. See IATA PI 965, 968 and 976.
- 13- UN 3480, UN 3090 and UN 3551 weighing 12 kg or more with strong, impact resistant casing does not require UN packaging. See IMDG P903, paragraph (2).
- 14- UN 3480 and UN 3090 weighing 12 kg or more with strong, impact resistant casing does not require UN packaging. See 49 CFR 173.185 (b)(4)
- 15- As of publication date, US DOT PHMSA has not incorporated Sodium Ion Batteries into 49 CFR 171-180.

**NAVIGATE (CLICK):**



## **DISCLAIMER**

**This guide provides a summary of Dangerous Goods (DG) regulatory transportation requirements and does not address product use. HAZMATEAM, INC shall not be held liable for any damage resulting from handling or from contact with the products described in this guide.**

**The user of this guide must be trained and use the classification, packaging instructions and guidance in the most recent versions of the applicable DG regulations (IMDG, IATA, ICAO, 49 CFR and/or other country specific DG regulations). The user must also consult the battery/equipment manufacturer for item specific transportation safety requirements (including verification a lithium or sodium ion battery has been UN tested). This guide does not address waste shipments: consult federal and state waste regulations for shipping requirements.**

**The information in this guide is believed to be correct, however, HAZMATEAM, INC assumes no responsibility or liability for any errors or omissions in the content. The information contained in this guide is provided on an "as is" basis with no guarantees of completeness, accuracy, usefulness or timeliness and without any warranties of any kind whatsoever, express or implied. HAZMATEAM, INC does not warrant that this guide and any information or material downloaded from this guide, will be uninterrupted, error-free, omission-free or free of viruses or other harmful items.**

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