

HAZMATEAM



2022 LITHIUM BATTERY SHIPPING GUIDE



JANUARY 1, 2022

The following guide provides a summary of marking, labeling and paperwork requirements for shipping lithium batteries via domestic US ground (49 CFR 171-180 in effect 1-Jan-2022), international air (2022 IATA DGR, 63rd Edition) and international vessel (IMDG, 40-20). 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 battery regulations change. Please check www.hazmateam.com for the most current version of this document.

TO GET STARTED, CLICK ON THE HOME ICON:





IS MY LITHIUM CELL OR BATTERY UN TESTED?

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

SMALL LITHIUM ION CELL/BATTERY REQUIREMENTS

MEDIUM LITHIUM ION CELL/BATTERY REQUIREMENTS

FULLY REGULATED LITHIUM ION CELL/BATTERY REQUIREMENTS

DAMAGED OR DEFECTIVE LITHIUM ION CELL/BATTERY REQUIREMENTS

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

SMALL LITHIUM METAL CELL/BATTERY REQUIREMENTS

MEDIUM LITHIUM METAL CELL/BATTERY REQUIREMENTS

FULLY REGULATED LITHIUM METAL CELL/BATTERY REQUIREMENTS

DAMAGED OR DEFECTIVE LITHIUM METAL CELL/BATTERY REQUIREMENTS

BATTERY-POWERED VEHICLES

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. 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 \(a\)](#)

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 \(e\)](#). 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

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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 ²	 MAXIMUM AGGREGATE LITHIUM CONTENT ²	 MAXIMUM AGGREGATE LITHIUM CONTENT ²
SMALL CELL	1 GRAM	1 GRAM	1 GRAM
SMALL BATTERY	2 GRAMS ¹	2 GRAMS ¹	2 GRAMS ¹
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**

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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?](#)

**MEDIUM¹ LITHIUM ION
CELL/BATTERY
REQUIREMENTS**

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

***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?](#)

MEDIUM¹ LITHIUM METAL CELL/BATTERY REQUIREMENTS

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<p>PACKAGE OF MEDIUM LITHIUM METAL CELLS/BATTERIES</p>	<p>MODE (CLICK):</p>
<p>BATTERIES ONLY</p>	
<p>BATTERIES CONTAINED IN EQUIPMENT ² (INSTALLED)</p>	
<p>BATTERIES PACKED WITH EQUIPMENT²</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?](#)

BATTERY-POWERED VEHICLES

“Battery-Powered Vehicles” 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 or lithium metal battery. If the vehicle is powered by other battery types or fuels, refer to 49 CFR 173.220, IMDG SP 388 & 962 or IATA PI 952, 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” or “UN 3481, Lithium Ion Batteries Packed with Equipment”, as applicable.

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

BATTERY-POWERED VEHICLE	MODE (CLICK):		
<p>Examples:</p> <ul style="list-style-type: none"> • Bicycles (pedal cycles with electric motor) • Wheelchairs • Lawn tractors • Electrically powered cars, scooters or motorcycles • Self-propelled farming or construction equipment • Robots used to move goods 			

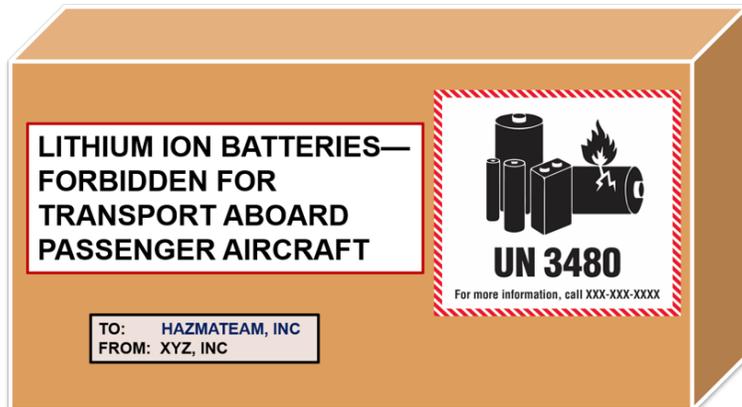
NAVIGATE (CLICK):



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



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OR



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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

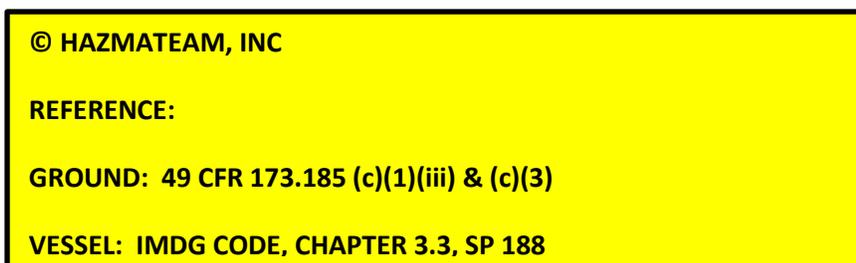


NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- **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.
- [CLICK HERE IF MORE THAN 5 KG NET PER PKG](#)



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NAVIGATE (CLICK):



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](#)



OR



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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.
- [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](#)



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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 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
- BUTTON CELL INSTALLED IN EQUIPMENT
- 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](#)



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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 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](#)



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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](#)



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OR



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REFERENCE:

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

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

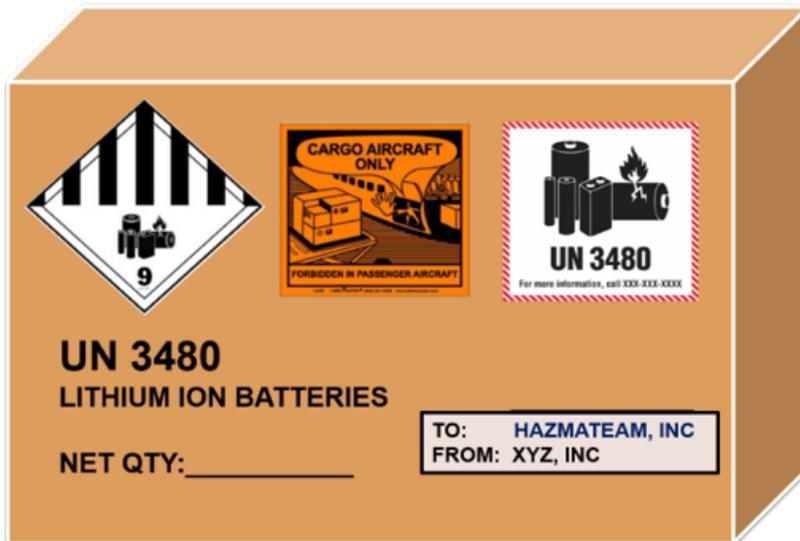
NAVIGATE (CLICK):



SMALL LITHIUM ION BATTERIES – NO EQUIPMENT (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
- STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY



Address label mandatory

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

PI 965 SECTION II WAS ELIMINATED 1-JAN-2022

SMALL UN 3480 MUST BE SHIPPED PI 965 SECTION IB OR PI 965 SECTION IA



CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING 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
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



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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):

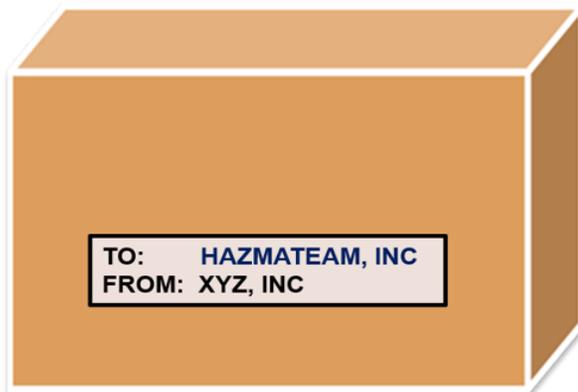


SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT



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
- [CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED \(OTHER THAN BUTTON CELLS\)](#)
- [CLICK HERE IF SHIPPING BUTTON CELLS INSTALLED IN EQUIPMENT](#)



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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):

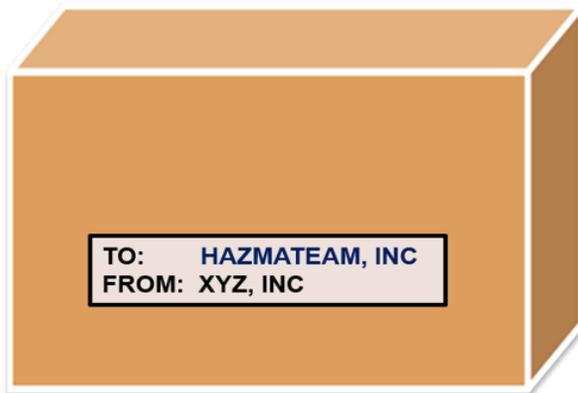


SMALL LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



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
- 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 LITHIUM ION BATTERIES OTHER THAN BUTTON CELLS CONTAINED IN EQUIPMENT](#)



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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
- BATTERY IS INSTALLED.
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



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REFERENCE:

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

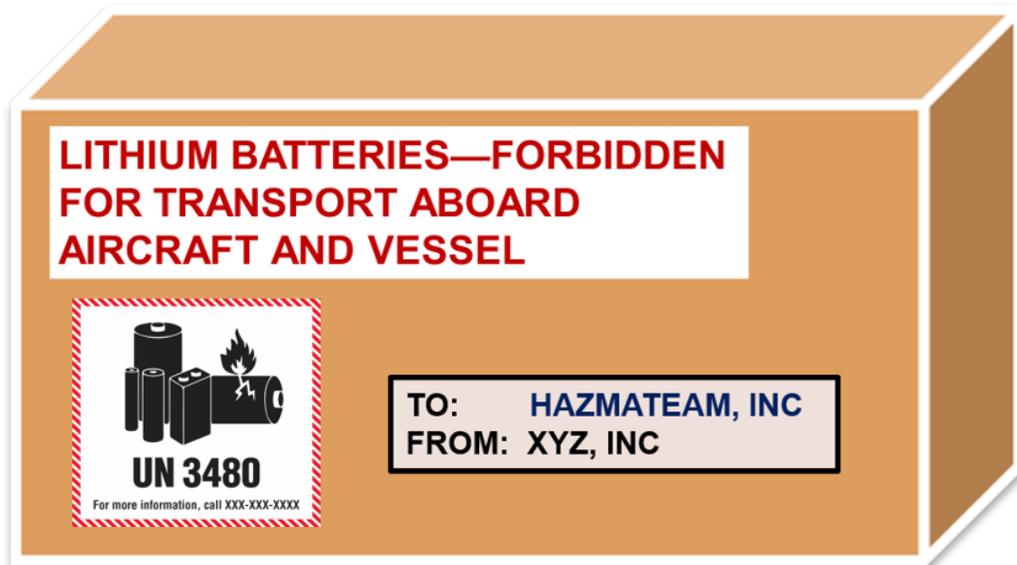
INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II

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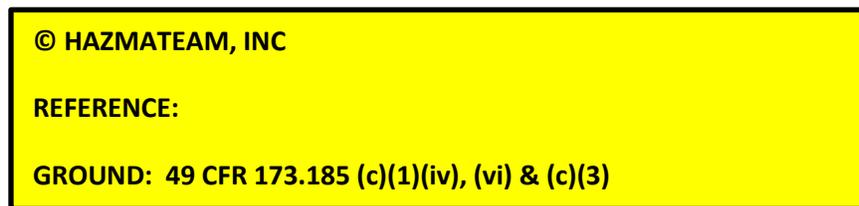


MEDIUM LITHIUM ION BATTERIES – NO EQUIPMENT

- *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



Address label optional



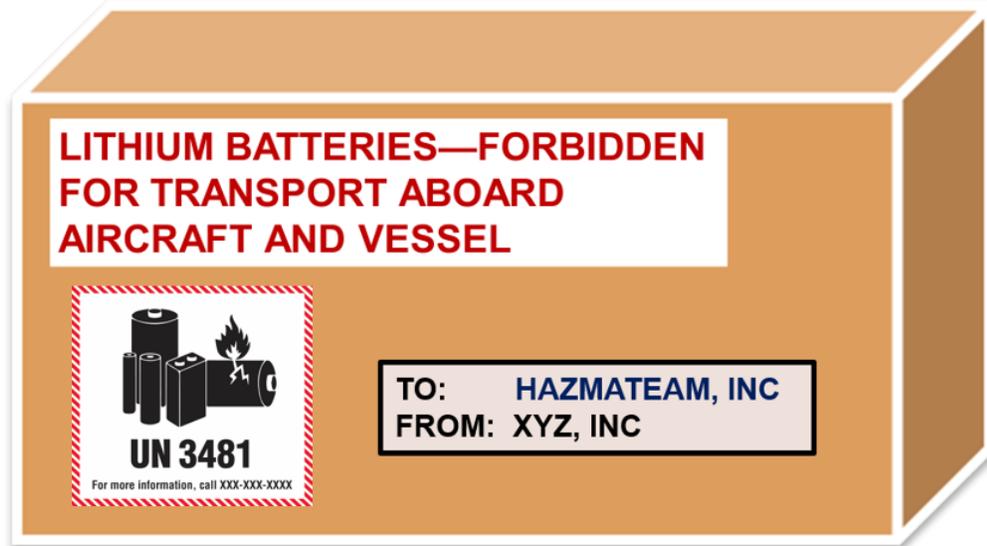
NAVIGATE (CLICK):



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.



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REFERENCE:

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

NAVIGATE (CLICK):

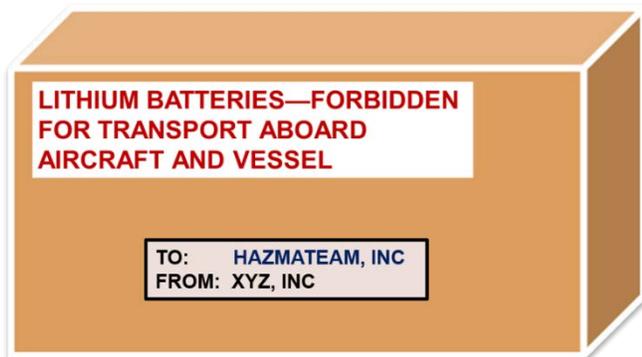


MEDIUM LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

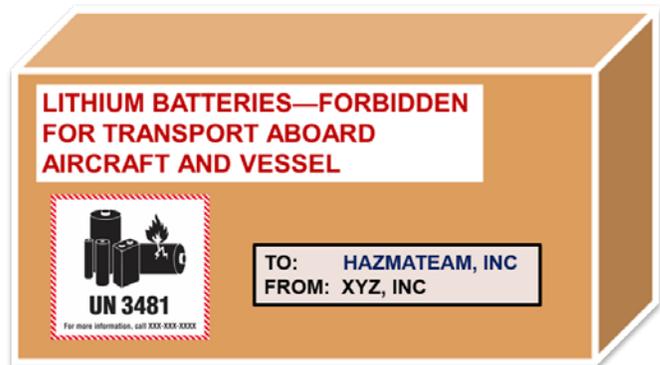
NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE



- **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.
- [CLICK HERE FOR MORE THAN 4 CELLS OR 2 BATTERIES 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):

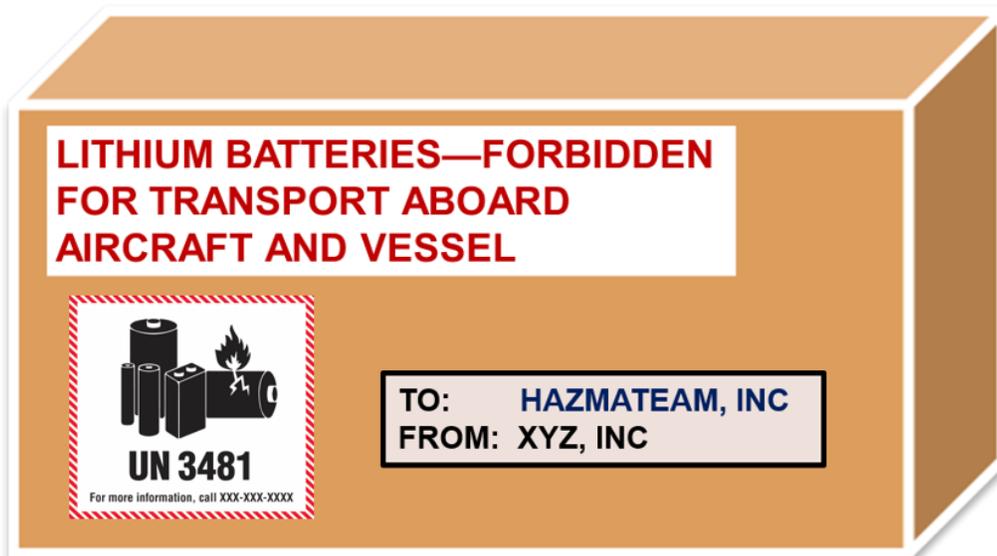


MEDIUM LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

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:

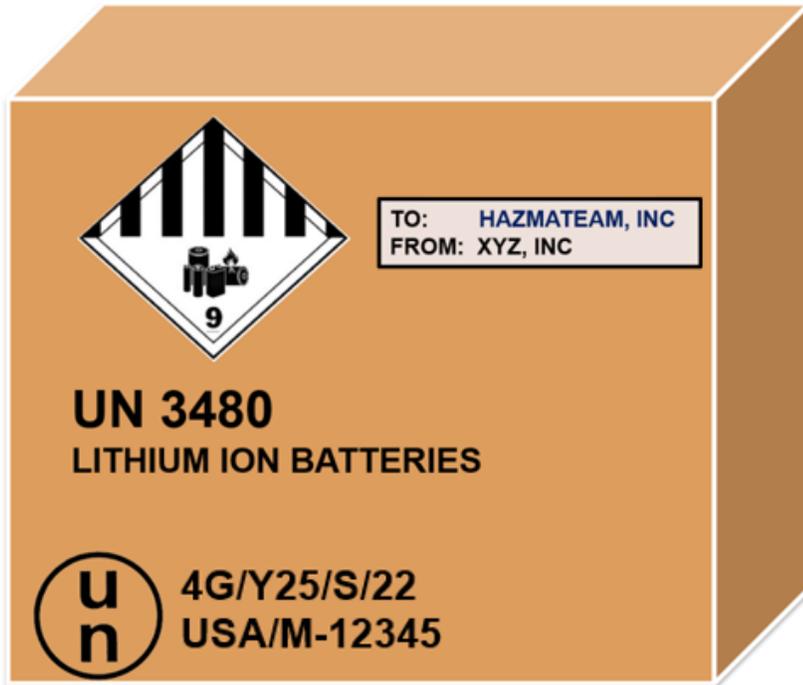
GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

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



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



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

© HAZMATEAM, INC

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



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

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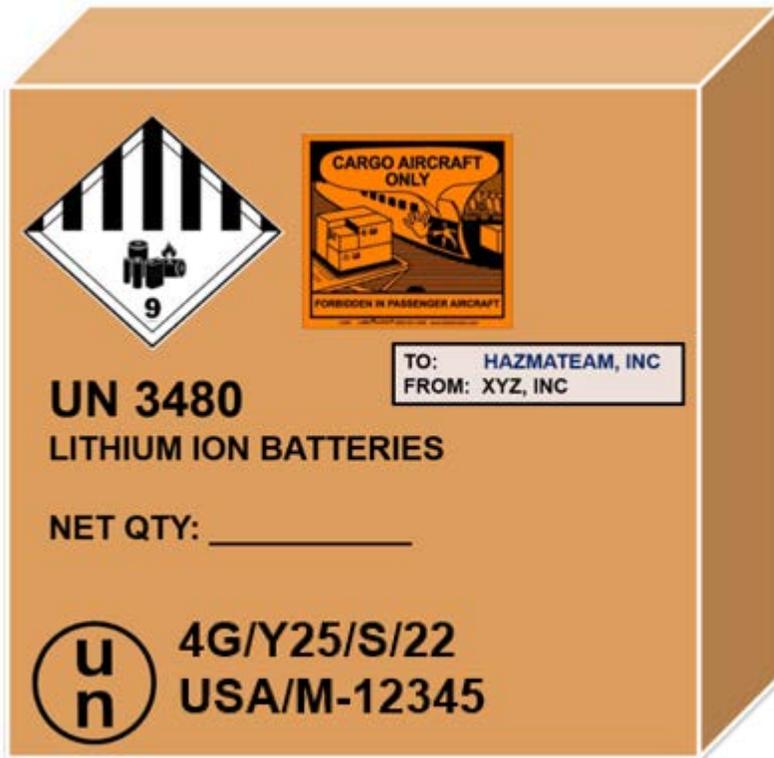
REFERENCE:
 GROUND: 49 CFR 172.301, 172.447 & 173.185
 SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4)
 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

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
- FORBIDDEN FOR PASSENGER AIR; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION



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
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
- MAX NET QTY/PKG PASSENGER AIRCRAFT= 5 KG; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION



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

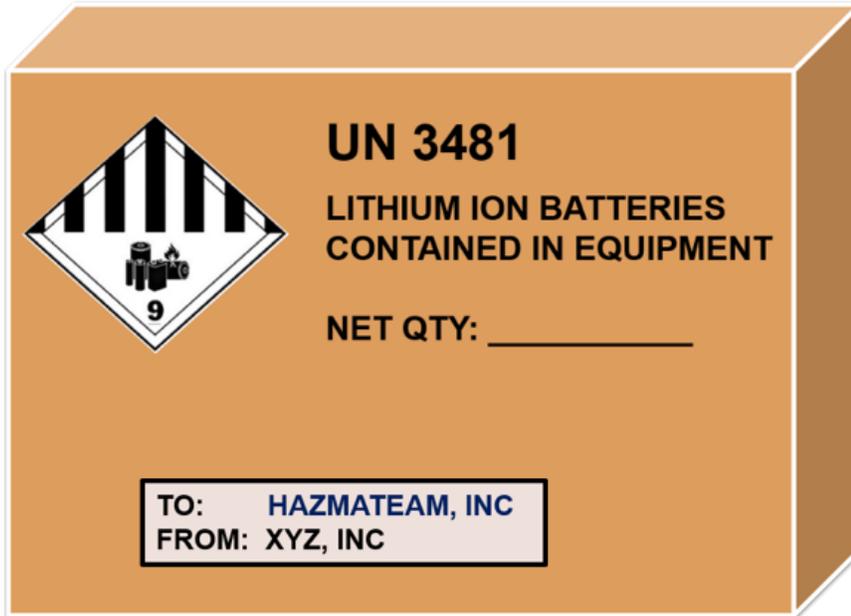
NAVIGATE (CLICK):



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
- BATTERY INSTALLED IN EQUIPMENT
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG



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



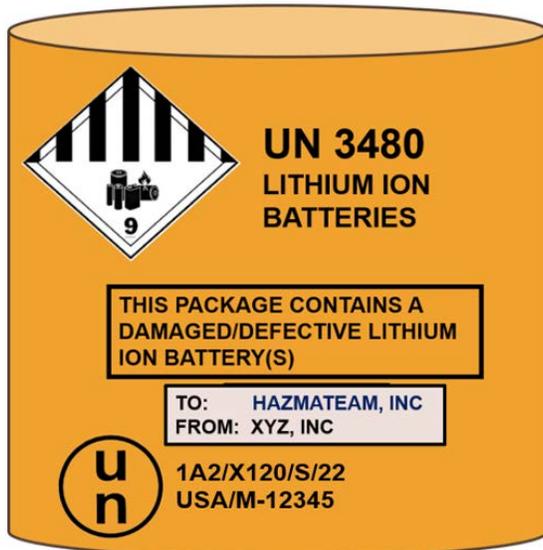
NAVIGATE (CLICK):



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



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 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



Address label optional

OR



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 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](#)



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



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](#)



Address label optional

OR



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):

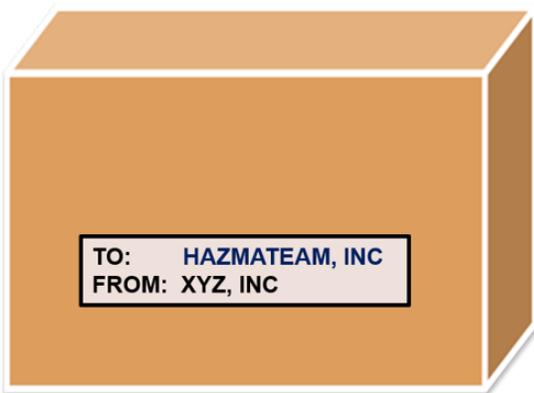


SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS 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
- [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](#)



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 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](#))
- **BUTTON CELL INSTALLED IN EQUIPMENT**
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, BUT CANNOT EXCEED 5 KG NET
- [CLICK HERE IF SMALL LITHIUM METAL 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:

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 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](#)



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 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](#)



Address label optional

OR



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 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



Address label mandatory

PI 968 SECTION II WAS ELIMINATED 1-JAN-2022

SMALL UN 3090 MUST BE SHIPPED PI 968 SECTION IB OR PI 968 SECTION IA

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

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

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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
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



Address label optional

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REFERENCE:

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

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 969, SECTION II

NAVIGATE (CLICK):

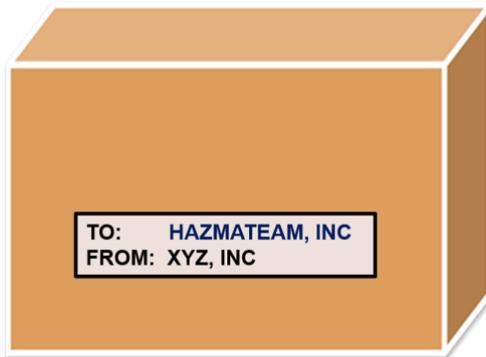


SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

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
- BATTERY IS INSTALLED.
- [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](#)



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
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, CANNOT EXCEED 5 KG NET
- [CLICK HERE IF SMALL LITHIUM METAL 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:

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
- BATTERY IS INSTALLED.
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES ARE CONTAINED IN EQUIPMENT PER PACKAGE](#)



Address label optional

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REFERENCE:

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

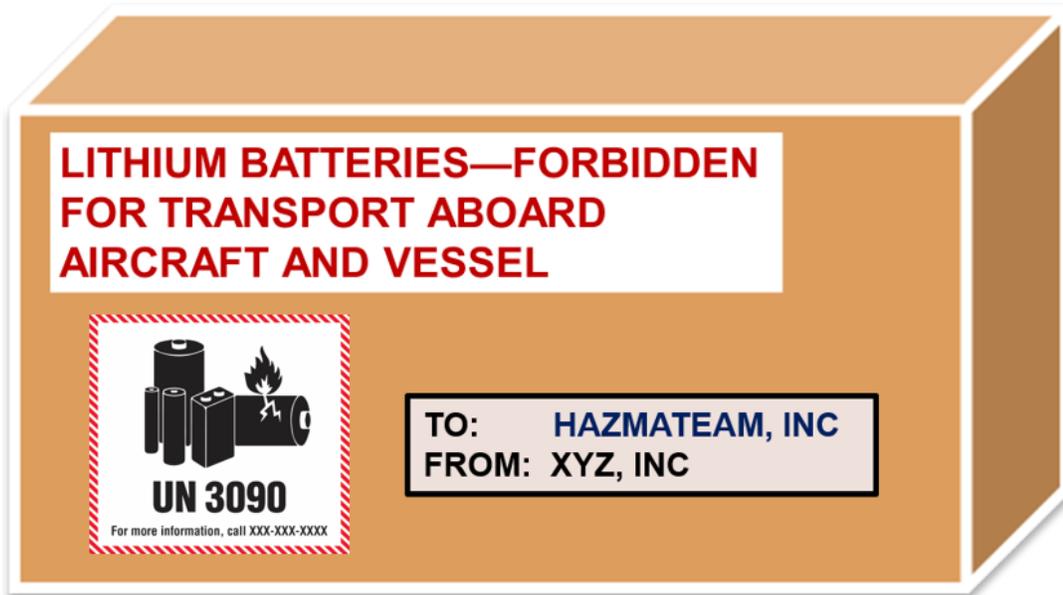
INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970, SECTION II

NAVIGATE (CLICK):



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



Address label optional

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REFERENCE:

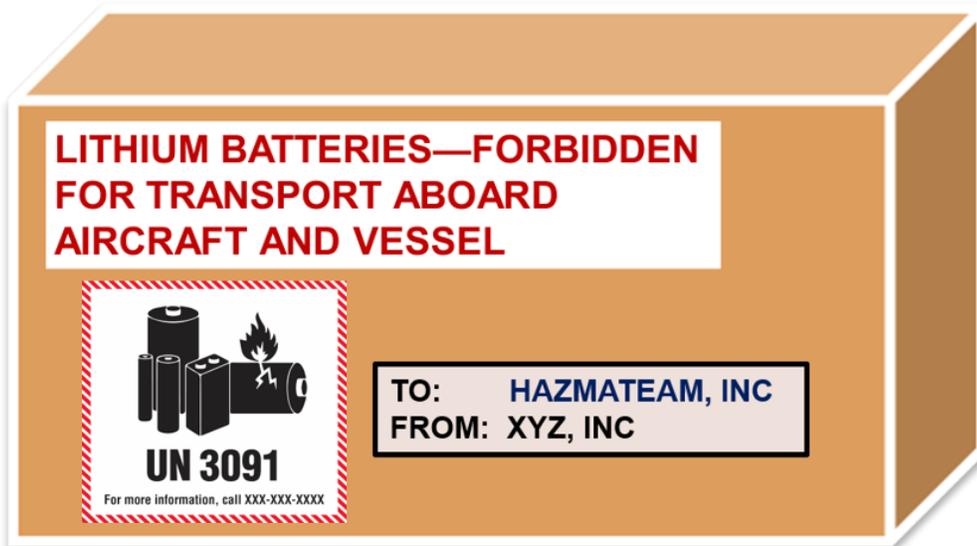
GROUND: 49 CFR 173.185 (c)(1)(iv), (vi) & (c)(3)

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.



Address label optional

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REFERENCE:

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

NAVIGATE (CLICK):

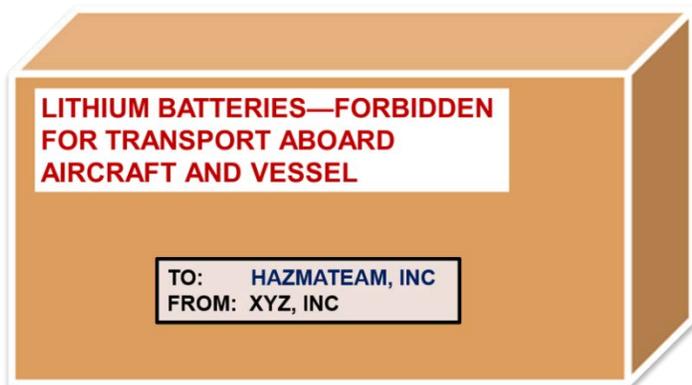


MEDIUM LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

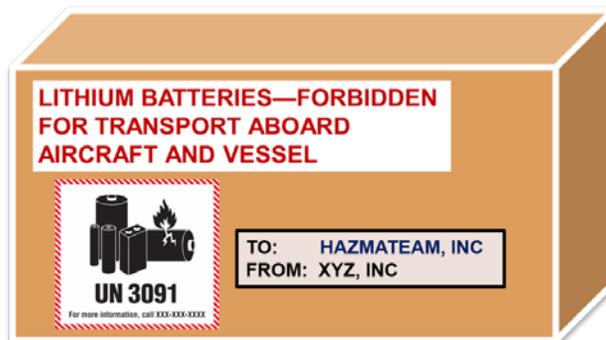
NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE



- **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):

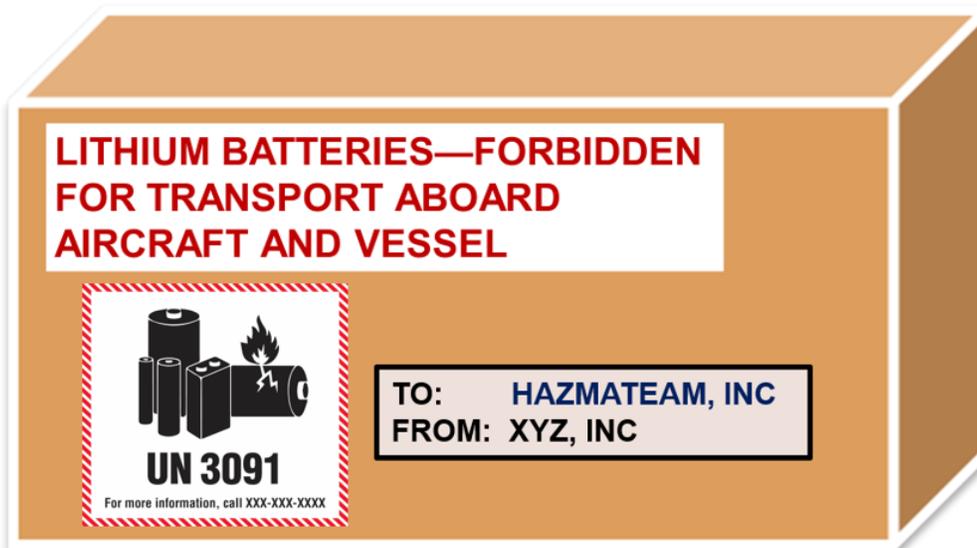


MEDIUM LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

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
- [CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE](#)



Address label optional

© HAZMATEAM, INC

REFERENCE:

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

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



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

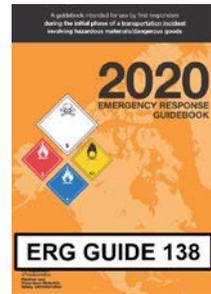
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REFERENCE:

GROUND: 49 CFR 172.301 & 172.447, 173.185

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

NAVIGATE (CLICK):



FULLY REGULATED LITHIUM METAL BATTERIES 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



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 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



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
- FORBIDDEN FOR PASSENGER AIRCRAFT; MAX NET QTY PER CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION



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
WITH CLASS 1 (OTHER
THAN 1.4S), DIV 2.1,
CLASS 3, DIV 4.1 or
DIV 5.1

© HAZMATEAM, INC

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
- MAX NET PER PKG PASSENGER AIR = 5 KG;
- MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION



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



BOTH REQUIRED

© HAZMATEAM, INC

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
- BATTERY INSTALLED IN EQUIPMENT
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG



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



© HAZMATEAM, INC

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

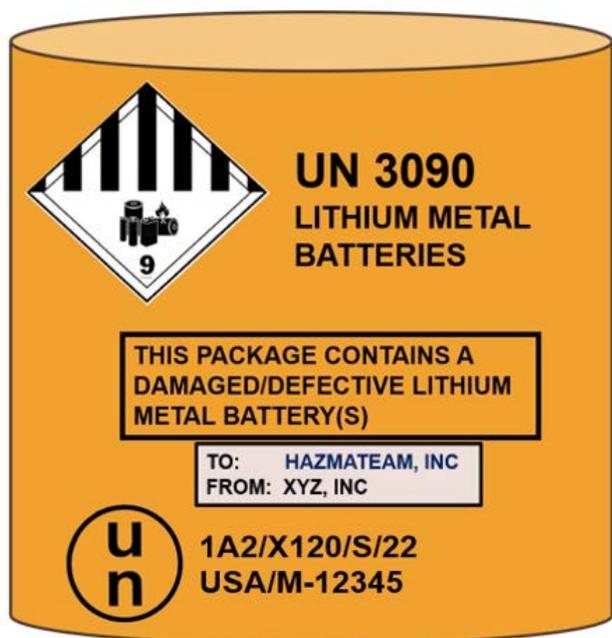
NAVIGATE (CLICK):



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



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):





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
-
- 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
 - “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](#)

BATTERY-POWERED VEHICLES SHIPPED VESSEL



- **BATTERY-POWERED VEHICLE, UN 3171**
- 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 DO NOT REQUIRE PLACARDS
- 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 IMDG SP 388 & 962.
- **"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: IMDG CODE, SP 388.
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.



PACKAGE DOES NOT REQUIRE ANY HAZARD MARKS OR LABELS.



© HAZMATEAM, INC, REFERENCE:

IMDG CODE:

IMDG SPECIAL PROVISIONS 388, 961, & 962

NAVIGATE (CLICK):

[BATTERY-POWERED VEHICLES](#)





BATTERY-POWERED VEHICLES SHIPPED AIR

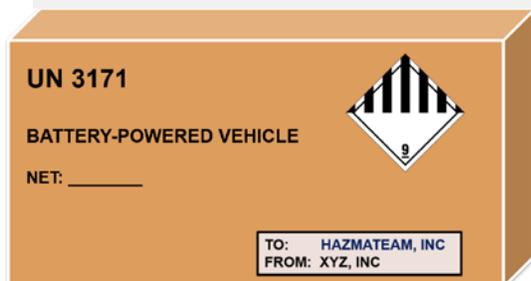
- **BATTERY-POWERED VEHICLE, UN 3171**
- BATTERY SIZE: ALL
- BATTERY MUST BE UN 38.3 TESTED ([UN Tested](#))
- MODE: AIR
- BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
- NO SPARE BATTERIES ARE PERMITTED
- DECLARATION & ER INFO (SDS or ERG Page): YES

- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL OR LITHIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES / OTHER FUELS, REFER TO IATA PI 952.

- “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. REF: IATA DGR SP 214

- 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):



RESTRICTIONS:

- FOR UN 3171 in USA, 49 CFR 173.220 (d) prohibits Lithium Metal Batteries installed in vehicle on passenger aircraft.

- Many airlines have restrictions with UN 3171.



© HAZMATEAM, INC,

IATA DGR REFERENCE:

SPECIAL PROVISIONS: A87,
A185, A214 & PI 952

NAVIGATE (CLICK):

[BATTERY-POWERED VEHICLES](#)



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 (**Note:** New declaration format as of IATA 60th Edition, 2019; May use declaration illustrated in the 59th Edition until 31-Dec-2024.

EXAMPLE #	MODE	CONSIGNMENT
1 (click)	Ground	UN 3480 and non-regulated material
2 (click)	Ground	UN 3091, Lithium Metal Batteries Packed with Equipment in an overpack
3 (click)	Ground	Wooden crates - UN 3481, Lithium Ion Batteries Contained in equipment and non-regulated material
4 (click)	Vessel	Consignment of UN 3090, UN 3091 ('packed with') and UN 3091 ('contained in')
5 (click)	Vessel	250 packages of UN 3480 loaded into a freight container
6 (click)	Vessel	Packages of UN 3480 and UN 3090 contained in an overpack
7 (click)	Air	Fully regulated UN 3090 shipped according to IATA PI 968 Section IA
8 (click)	Air	Small UN 3090 shipped according to IATA PI 968 Section IB
9 (click)	Air	Fully regulated UN 3480 shipped according to IATA PI 965 Section IA
10 (click)	Air	SMALL UN 3480 batteries shipped according to IATA PI 965 Section IB
11 (click)	Air	UN 3481, Lithium Ion Batteries Contained in Equipment within an overpack
12 (click)	Air	UN 3091, Lithium Metal Batteries packed with equipment. Shipped out of USA.
13 (click)	Vessel	UN 3171, Battery-Powered Vehicle. Powered by a lithium metal battery.
14 (click)	Air	UN 3171, Battery-Powered Vehicle. Powered by a lithium ion battery.

NAVIGATE (CLICK):



EXAMPLE 1

- 10 FIBREBOARD BOXES of UN 3480 (NO EQUIPMENT) : Each Box contains 5 KG net batteries; Each Box weighs 11 KG, GROSS
- 1 box of non-regulated material

Page 1 of 1

Date 1-JAN-2022

(Name of carrier) (SCAC)

On Collect on Delivery shipments the letters "COD" must appear before consignee's name or as otherwise provided in Item 430 Sec 1

TO: **XYZ, INC.**
 Consignee
 Street **1 MAIN STREET**
 City **OMAHA** State **NE** Zip Code **72111**

FROM: **HAZMATEAM, INC**
 Shipper
 Street **12 KIMBALL HILL ROAD**
 City **HUDSON** State **NH** Zip Code **03051**
 24 hr. Emergency Contact Tel. No. **800-535-5053, CONTRACT 12345**

No of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172 101, 172 202, 172 203	TOTAL QUANTITY (Weight, Volume, Gallons, etc)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
10 BOXES	X	UN 3480, LITHIUM ION BATTERIES, 9 ERG # 147	50 KG (NET)	110 KG (GROSS)		
1 BOX		NON-REGULATED MATERIAL		10 KG (GROSS)		

'X' IN HM COLUMN IF HAZARDOUS

TOTAL QTY, CAN BE NET OR GROSS

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER

PLACARDS TENDERED: YES NO

Note - (1) Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property, as follows "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(b) of item 360 Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles

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 applicable international and national governmental regulations

A. Fauci So

REMIT C O D TO ADDRESS

COD Amt \$

C O D FEE PREPAID COLLECT \$

Subject to Section 7 of the conditions, if the shipper consignee without recourse on the consignee following statement
 The carrier shall not make delivery of this consignment unless the consignee has paid the freight and all other lawful charges

TRAINED PERSON'S SIGNATURE

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION

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)

Page 1 of 1 Carrier No. _____
Date **FEB 5, 2022**
(Name of carrier) (SCAC)

On Collect on Delivery shipments the letters "COD" must appear before consignee's name or as otherwise provided in Item 430 Sec. 1 TO: XYZ, INC. <small>Consignee</small> Street 1 MAIN STREET City OMAHA State NE Zip Code 72111	FROM: HAZMATEAM, INC <small>Shipper</small> Street 12 KIMBALL HILL ROAD City HUDSON State NH Zip Code 03051 24 hr. Emergency Contact Tel. No. 800-535-5053, CONTRACT 12345
--	--

Route	No of Units & Container Type	HM	BASIC DESCRIPTION <small>Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172 101, 172 202, 172 203</small>	TOTAL QUANTITY <small>(Weight, Volume, Gallons, etc.)</small>	WEIGHT <small>(Subject to Correction)</small>	RATE	CHARACTERISTICS <small>(For Classification Use Only)</small>
	20 BOXES (4D)	X	UN 3091, LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, 9 ERG # 138 ABOVE PLACED IN 1 OVERPACK	60 KG (NET)	200 KG, GROSS		

'X' IN HM COLUMN IF HAZARDOUS

OVERPACK CONTAINS 20 PROPERLY MARKED AND LABELED PACKAGES

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER

PLACARDS TENDERED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	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 labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	REMIT C O D TO ADDRESS COD Amt \$ _____	C O D FEE PREPAID <input type="checkbox"/>
<small>Note - (1) Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See section 2(a) of item 360 Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.</small>		Subject to Section 7 of the conditions, if the shipper consignee without recourse on the consignor, the following statement: The carrier shall not make delivery of this consignment without payment of freight and all other lawful charges.	
Signature: <i>Mac Jones</i>		TRAINED PERSON'S SIGNATURE	

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION

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.

ORIGINAL - NOT NEGOTIABLE

Carrier No. _____

Page 1 of 1

Date FEB 5, 2022

(Name of carrier) (SCAC)

On Collect on Delivery shipments the letters "COD" must appear before consignee's name or as otherwise provided in item 430 Sec 1

TO: **ABC CORPORATION**
 Consignee
 Street **2502 INDUSTRIAL BLVD**
 City **ROCHESTER** State **NY** Zip Code **14602**

FROM: Shipper **HAZMATEAM, INC**
 Street **12 KIMBALL HILL ROAD**
 City **HUDSON** State **NH** Zip Code **03051**

24 hr. Emergency Contact Tel. No. **800-535-5053, CONTRACT 12345**

No of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For other use)
10 WOODEN CRATES	X	UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9 ERG # 147	70 KG (NET)	200 KG, GROSS		
2 BAGS		NON-REGULATED MATERIAL		5 KG, GROSS		

'X' IN HM COLUMN IF HAZARDOUS

RECHARGEABLE LITHIUM BATTERIES INSTALLED IN EQUIPMENT

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER

TOTAL QTY, CAN BE NET OR GROSS

PLACARDS TENDERED: YES NO

Note - (1) Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See section 2(e) of item 350 Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles

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 labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations

REMIT COD TO ADDRESS
COD Amt \$ _____

COD FEE PREPAID COLLECT

Subject to Section 7 of the conditions, if the shipper consignee without recourse on the consignor, the following statement:
 The carrier shall not make delivery of this shipment to any other address than that shown on this shipping paper.

Lily Von Schtuk Signature

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	SHIPPER'S I hereby declare that the goods described below are in all respects in proper condition for transport, and are in compliance with 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
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
15 Container identification No./	16 Seal number(s)	17 Cont./vehicle size & type	18
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.**) MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING		21 RECEIVING ORGANIZATION Received the above number of packages, and the goods described hereon, unless stated hereon: RECEIVING ORGANIZATION'S NAME AND ADDRESS	
20 Name of company		Haulier's name	22 Name of co. of shipper preparing this note
Name/status of declarant		Vehicle reg. no	HAZMATEAM
Place and date		Signature and date	Name/status of declarant Leo Traverse, Shipper
Signature of declarant		Driver's signature	Place and date Hudson, NH, 6-JAN-2022
			Signature of declarant <i>Leo Traverse</i>

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS

IMDG EMS – COLUMN 15 OF DGL

DOT ERG – 'ORANGE BOOK' CODE

PACKAGE CODES (EX – 4G) OPTIONAL

BOX 22 ALWAYS REQUIRES A SIGNATURE BY TRAINED SHIPPER

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION

EXAMPLE 5

250 Packages of rechargeable lithium batteries loaded into a freight container at the shipper's facility. Each package contains a 10 Kg battery. Gross wt of each package is 20 KG.

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 - NETHERLANDS ZANDERSTEEN 66 2669 VL AMSTERDAM NETHERLANDS		7 Carrier	
10 Vessel	11 Port of loading	SHIPPER'S I hereby declare that the goods described below are in all respects in proper condition for transport and are in accordance with 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 ³)
	UN 3480, LITHIUM ION BATTERIES, 9 IMDG EMS: F-A, S-I; ERG 147 250 (4G) FIBREBOARD BOXES		5000 KG 2500 KG
20 Name of company HAZMATEAM, INC		21 RECEIVING ORGANIZATION RECEIPT Received the above number of packages/containers/trailers in apparent good order and condition, unless stated hereon: RECEIVING ORGANIZATION REMARKS:	
Name/status of declarant Paul Dambek, Shipper		Haulier's name	
Place and date Hudson, NH, 9-JAN-2022		Vehicle reg. no	
Signature of declarant Paul Dambek		Signature and date	
		22 Name of co. of shipper preparing this note HAZMATEAM	
		Name/status of declarant Leo Traverse, Shipper	
		Place and date Hudson, NH, 9-JAN-2022	
		Signature of declarant Leo Traverse	

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS

IMDG EMS – COLUMN 15 OF DGL

DOT ERG – ‘ORANGE BOOK’ CODE

PACKAGE CODES (EX – 4G) OPTIONAL

BOX 22 ALWAYS REQUIRES A SIGNATURE BY TRAINED SHIPPER

IF LOADING FREIGHT CTN, SIGN BOX 20

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	
6 Consignee HAZMATEAM - NETHERLANDS ZANDERSTEEN 66 2669 VL AMSTERDAM NETHERLANDS		7 Carrier	
10 Vessel		11 Port of loading	
12 Port of discharge		13 Destination	
14 Shipping marks		*) Number and kind of packages: description of goods	
IMDG EMS – COLUMN 15 OF DGL		UN 3480, LITHIUM ION BATTERIES, 9	
DOT ERG – ‘ORANGE BOOK’ CODE		IMDG EMS: F-A, S-I; DOT ERG 147	
PACKAGE CODES (EX – 4G) OPTIONAL		5 (4G) FIBREBOARD BOXES	
		Gross mass (kg) Net Cube (m ³)	
		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 Tare mass	
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.**) MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING		21 RECEIVING ORGANIZATION RECEIPT Received the above number of packages/c... unless stated hereon: RECEIVING ORGANIZATION	
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, INC.	
		Name/status of declarant Stephanie Traverse, Shipper	
		Place and date Hudson, NH, 1-JAN-2022	
		Signature of declarant Steph Traverse	

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS



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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. 6980 Page 1 of 1 Pages Shipper's Reference Number (optional)			
Consignee PHOENIX PARTS 123 MAIN STREET PHOENIX, AZ 77777		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE			
<div style="background-color: green; color: black; padding: 5px; font-weight: bold;">SHIPMENT CANNOT GO ON PASSENGER AIR</div> This shipment is with the limitations prescribed for:		must be handed to the operator.			
TRANSPORT DETAILS This shipment is with the limitations prescribed for: (delete non-applicable) <input checked="" type="checkbox"/> PASSENGER AIRCRAFT <input checked="" type="checkbox"/> CARGO AIRCRAFT ONLY		Airport of Departure MANCHESTER, NH 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 Destination PHOENIX, AZ		Shipment Type (delete non-applicable) NON-RADIOACTIVE <input checked="" type="checkbox"/> RADIOACTIVE			
NATURE AND QUANTITY OF DANGEROUS GOODS					
Dangerous Goods Identification					
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Quantity and Type of Packing	Packing Instructions	Authorization
UN 3090	LITHIUM METAL BATTERIES	9	2 FIBREBOARD BOXES x 4 KG	968	
<div style="background-color: grey; color: black; padding: 5px; font-weight: bold;">ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE</div>		<div style="background-color: blue; color: white; padding: 5px; font-weight: bold;">NUMBER OF PACKAGES X NET WT PER PACKAGE</div>			
Additional Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 138					
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 classed, 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 I am the shipper and I have			Name of signatory Paul Dambek Date 1-JAN-2022 Signature <i>Paul J. Dambek</i> <small>(see warning above)</small>		
<div style="background-color: yellow; color: black; padding: 5px; font-weight: bold;">IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER</div>					

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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. 6980 Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee PHOENIX PARTS 123 MAIN STREET PHOENIX, AZ 77777		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE				
Person to be notified in the event of an emergency (delete non-applicable)		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.				
SHIPMENT CANNOT GO ON PASSENGER AIR						
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non-applicable)		Airport of Departure MANCHESTER, NH				
<table border="1"> <tr> <td>XXXX PASSENGER AIRCRAFT</td> <td>CARGO AIRCRAFT ONLY</td> </tr> </table>		XXXX PASSENGER AIRCRAFT	CARGO AIRCRAFT ONLY			
XXXX PASSENGER AIRCRAFT	CARGO AIRCRAFT ONLY					
Airport of Destination PHOENIX, AZ		Shipment Type (delete non-applicable) NON-RADIOACTIVE XXXXXX				
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		1 FIBREBOARD BOX x 2 KG	968 IB	
Additional Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 138				NUMBER OF PACKAGES X NET WT PER PACKAGE		WHEN SHIPPING PI SECTION IB, MUST INCLUDE 'IB'. ALTERNATIVELY, CAN ADD 'IB' TO AUTHORIZATION COLUMN
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 shipper and are classified, packed, labeled and in accordance with applicable regulations.		Name of Signatory Paul Dambek		Date 1-JAN-2022		
IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER		Signature (see warning above)		<i>Paul J. Dambek</i>		

NAVIGATE (CLICK):



EMERGENCY
RESPONSE
INFORMATION

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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee GIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE				
This shipment is within the limitations prescribed for: (delete non-applicable)		must be handed to the operator.				
TRANSPORT DETAILS		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				
PASSENGER AIRCRAFT XXXX		CARGO AIRCRAFT ONLY				
NON-RADIOACTIVE		HAZARDOUS				
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		Stephanie Traverse		
IF USING 3 RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER		Date		5-FEB-2022		
		Signature		Steph Traverse		
				(see warning above)		

SHIPMENT CANNOT GO ON PASSENGER AIR

TRANSPORT DETAILS

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

PASSENGER AIRCRAFT XXXX	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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee GIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE				
Person Two copies to be provided to the operator. SHIPMENT CANNOT GO ON PASSENGER AIR		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.				
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non-applicable) PASSENGER AIRCRAFT XXXX CARGO AIRCRAFT ONLY		Airport of Departure				
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE XXXXXX				
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				NUMBER OF PACKAGES X NET WT PER PACKAGE		WHEN SHIPPING PI SECTION IB, MUST INCLUDE 'IB'. ALTERNATIVELY, CAN ADD 'IB' TO AUTHORIZATION COLUMN
Emergency Telephone Number INFOTRAC, 800-535-5053 (CONTRACT 12345)		Name of Signatory Stephanie Traverse		Date 11-JAN-2022		
I hereby declare that all of the applicable air transport requirements have been met. IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER		Signature (see warning above) <i>Steph Traverse</i>				

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION

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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)					
Consignee GIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE					
PASSENGER AIR LIMIT PER PACKAGE = 5 KG		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.					
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non-applicable) <table border="1"><tr><td>PASSENGER AND CARGO AIRCRAFT</td><td>CARGO AIRCRAFT ONLY</td></tr><tr><td></td><td>XXXX</td></tr></table>		PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY		XXXX	Airport of Departure	
PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY						
	XXXX						
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE XXXXXX					
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 OVERPACK USED	967		
ICAO/IATA ERG CODE FROM COLUMN N OF DGL; DOT ERG – 'ORANGE BOOK' CODE				NUMBER OF PACKAGES X NET WT PER PACKAGE		MUST USE PHRASE 'OVERPACK USED' WHEN PACKAGES WITHIN AN OVERPACK	
Additional Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 147							
Emergency Telephone Number INFOTRAC, 800-535-5053 (CONTRACT 12345)							
IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER		Name of Signatory Mac Jones		Date 19-JAN-2022			
been met.		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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051 USA		Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)					
Consignee BATTERIES ITALIA VIALE CASTRO PRETORIO 199 OFFICES VIA GAETA 99 00188 ROME ITALY		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE					
MUST GO CARGO AIRCRAFT ONLY WHEN PACKAGE EXCEEDS 5 KG NET OF BATTERIES		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.					
TRANSPORT DETAILS This shipment is within the limitations prescribed for: Airport of Departure (delete non-applicable) <table border="1"><tr><td>PASSENGER AIRCRAFT</td><td>CARGO AIRCRAFT ONLY</td></tr><tr><td>XXXX</td><td></td></tr></table>		PASSENGER AIRCRAFT	CARGO AIRCRAFT ONLY	XXXX			
PASSENGER AIRCRAFT	CARGO AIRCRAFT ONLY						
XXXX							
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE HAZARDOUS					
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				NUMBER OF PACKAGES X NET WT PER PACKAGE			
Emergency Telephone Number INFOTRAC, 1-011-352-323-3500 (CONTRACT 12345)							
I hereby declare that the contents of this equipment are fully and accurately described, marked, labeled, and packaged in accordance with the applicable regulations.		Name of Signatory Paul Dambek		Date 12-FEB-2022			
IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS		Signature <i>Paul J. Dambek</i>					

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION

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	
		3 Page 1 of 1 pages	4 Shipper's reference
		Booking Number	5 Freight forwarder's reference
6 Consignee BRITISH ROBOT COMPANY WESTMINSTER, LONDON, SW1A 1AA, UNITED KINGDOM		7 Carrier	
10 Vessel	11 Port of loading	SHIPPER'S I hereby declare that the goods described above are in all respects in proper condition for transport and are in accordance with 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 ³)
IMDG EMS – COLUMN 15 OF DGL DOT ERG – 'ORANGE BOOK' CODE UN PACKAGING NOT R'D	UN 3171, BATTERY-POWERED VEHICLE, 9, IMDG EMS: F-A, S-I; DOT ERG 138 2 PLYWOOD BOXES		110 KG
15 Container identification No./	16 Seal number(s)	17 Cont./vehicle size & type	18
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.**) MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING		21 RECEIVING ORGANIZATION Received the above number of packages/units unless stated hereon: RECEIVING ORGANIZATION REFERENCE:	
20 Name of company	Haulier's name	22 Name of co. of shipper preparing this note	
Name/status of declarant	Vehicle reg. no.	HAZMATEAM	
Place and date	Signature and date	Name/status of declarant Leo Traverse, Shipper	
Signature of declarant	Driver's signature	Place and date Hudson, NH, 6-JAN-2022	
		Signature of declarant <i>Leo Traverse</i>	

IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATIONAL DO NOT USE 800 NUMBERS

BOX 22 ALWAYS REQUIRES A SIGNATURE BY TRAINED SHIPPER

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 HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051		Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)				
Consignee NEW AGE BICYCLE INC 1214 COMMERCE BLVD ST. PAUL, MN 55105		AIRWAYBILL #, AIRPORTS OF DEPARTURE OR DESTINATION CAN BE COMPLETED BY AIRLINE				
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.				
TRANSPORT DETAILS This shipment is within the limitations prescribed for: <input type="checkbox"/> Passenger Aircraft <input checked="" type="checkbox"/> Cargo Aircraft Only						
Airport of Destination		Shipment Type (delete non-applicable) NON-RADIOACTIVE <input checked="" type="checkbox"/>				
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 3171	BATTERY-POWERED VEHICLE	9		3 FIBREBOARD BOXES x 20 KG	952	
Additional Handling Information: ICAO/IATA ERG CODE: 9L; 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 IF USING 3RD PARTY ER PHONE SERVICE, INCLUDE CONTRACT NUMBER		Name of Signatory: Stephanie Traverse Date: 11-MAR-2022 Signature: <i>Steph Traverse</i> (see warning above)				

NAVIGATE (CLICK):



EMERGENCY RESPONSE INFORMATION

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.

Spill

- For **highlighted materials**: see Table 1 - Initial Isolation and Protective Action Distances.
- For non-highlighted materials: increase the immediate precautionary measure distance, in the downwind direction, as necessary.

Fire

- If tank, rail car or tank truck 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.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the ERAP Program Section (page 390).

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 or Car/Trailer Loads

- 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 engulfed in fire.

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

- Call 911 or emergency medical service.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air if it can be done safely.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes.
- Keep victim calm and warm.

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Lithium 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.

Large Spill

- Consider initial downwind evacuation for at least 100 meters (330 feet).

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

Small Fire

- Dry chemical, CO₂, water spray or regular foam.

Large Fire

- Water spray, fog or regular foam.
- If it can be done safely, move undamaged containers away from the area around the fire.

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

- Call 911 or emergency medical service.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air if it can be done safely.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.



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. Call 603-882-1112 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 batteries shipped international air](#)
- [Small lithium batteries shipped international vessel](#)
- [Fully regulated, damaged or prototype lithium batteries requiring UN specification packaging](#)

NAVIGATE (CLICK):





SMALL AND MEDIUM LITHIUM BATTERIES SHIPPED USA GROUND¹

PACKAGE	VIBRATION TEST ²	DROP TEST ³
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 AIR¹

PACKAGE	VIBRATION TEST ²	DROP TEST ³
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"		

- 1- Does not require UN Specification packaging
- 2- Section IB of IATA PI 965 & 968 and Section II of PI 966,967,969 & 970 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 and PI 969 Section II

NAVIGATE (CLICK):





SMALL LITHIUM BATTERIES SHIPPED VESSEL¹

PACKAGE	VIBRATION TEST ²	DROP TEST ³
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"		

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 PACKAGING¹

PACKAGE ²	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
Damaged or defective batteries	Note 6	 Note 7	 Note 8
Prototype Batteries	Note 9	 Note 10	 Note 11
Lithium 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 and UN 3090 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 and PI 968.
- 13- UN 3480 and UN 3090 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)

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 battery has been UN tested). This guide does not address waste shipments: consult federal and state waste regulations for shipping requirements.

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