

# Un 3090 lithium battery

Are lithium batteries rechargeable?

Lithium batteries fall into two broad classifications; lithium metal batteries and lithium ion batteries. Lithium metal batteries are generally non-rechargeable and contain metallic lithium. Lithium ion batteries contain lithium which is only present in an ionic form in the electrolyte and are rechargeable.

Does a lithium battery Mark have a UN number?

Yes. The mark may bear all applicable UN numbers, e.g. UN 3091, UN 3481, to identify that the package contains lithium metal batteries packed with or contained in equipment and lithium ion batteries packed with, or contained in equipment. J. What are the requirements for the telephone number on the lithium battery mark?

Do lithium batteries need a class 9 hazard label?

Packages containing lithium batteries, or lithium batteries contained in, or packed with, equipment that meet the provisions of Part 1 of these packing instructions are not required to have a Class 9 hazard label and there is no requirement for a Shipper's Declaration for Dangerous Goods for consignments of these batteries.

Are lithium batteries classified in Class 9 - dangerous goods?

Lithium batteries are classified in Class 9 - Miscellaneous dangerous goods as: or, if inside a piece of equipment or packed separately with a piece of equipment to power that equipment as: UN 3481, Lithium-ion batteries packed with equipment.

What is a lithium battery?

**Lithium Battery** - The term "lithium battery" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. For the purposes of the DGR they are separated into: Lithium metal batteries. Are generally primary (non-rechargeable) batteries that have lithium metal or lithium compounds as an anode.

Can a lithium battery be shipped on a cargo aircraft?

Lithium Metal Batteries UN3090 Lithium Metal Cells and Batteries shipped by themselves - UN3090 (not contained in or packed with equipment) are forbidden for transport as cargo on passenger aircraft. They can be shipped on cargo aircrafts when packed in accordance with Packing Instruction 968.

Different kinds of lithium batteries: ... In addition, certain categories of cells and batteries may only be shipped in a special UN certified carton and by a carrier approved for carriage of Class 9. As a reminder, shipments of this type of batteries are strictly prohibited by post. We ship these products by G&#201;ODIS by road for the transport ...

UN Number and Proper Shipping Name UN 3090, LITHIUM METAL BATTERIES Battery Testing Data



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LITHIUM METAL CELLS OR BATTERIES MUST MEET THE REQUIREMENTS OF EACH TEST IN THE UN Manual of Tests and Criteria, Part III, subsection 38.3. A cell or battery and equipment containing a cell or battery that was first

Lithium Battery Classification. Lithium batteries are classified in Class 9 - Miscellaneous dangerous goods as: UN 3090, Lithium metal batteries; or; UN 3480, Lithium-ion batteries; or, if inside a piece of equipment or packed ...

Substance information for UN 3090 - Lithium metal batteries including lithium alloy batteries based on the Hazardous Materials Table (Title 49 CFR 172.101) to assist in preparing a risk assessment for loading, transporting and storing hazardous materials.

Batteries Per Package UN 3090, Lithium metal batteries <math>\leq 1\text{g}</math> lithium content NA <math>\leq 2\text{g}</math> lithium content NA Allowable Net Mass Per Package Shippers Dec? Labels/ Markings UN Spec Required? Additional? (PAX) Forbidden 2.5kg (CAO) YES Lithium Battery Mark + Class 9 + CAO Label No UN Spec. 1.2 m drop test 3 m stack test "IB" required on DGD

Cells and batteries shall be transported according to the provisions applicable to UN 3090, UN 3091, UN 3480 and UN 3481, except special provision 230 and as otherwise stated in this special provision. Packages shall be marked "DAMAGED/DEFECTIVE LITHIUM ION BATTERIES" or "DAMAGED/DEFECTIVE LITHIUM METAL BATTERIES", as applicable.

Lithium Battery Classification. Lithium batteries are classified in Class 9 - Miscellaneous dangerous goods as: UN 3090, Lithium metal batteries; or; UN 3480, Lithium-ion batteries; or, if inside a piece of equipment or packed separately with a piece of equipment to power that equipment as: UN 3091, Lithium metal batteries contained in ...

UN 3090, Lithium metal batteries; UN 3091, Lithium metal batteries packed with equipment; UN 3091, Lithium metal batteries contained in equipment; The Class 9 Lithium Battery label (IATA Figure 7.3.X) is required on all Section I, IA, and IB shipments. The phone number will be optional to include on the label effective 1/1/23.

PHMSA's "Announcing New UN Requirement for Lithium Battery Test Summaries" outreach publication. Any change or modification to a lithium battery that would lead to a failure of any of the UN 38.3 tests must be considered a new type and subjected to the required tests. See the UN Manual for the types of changes that may be considered ...

UN 3090, Lithium Metal Batteries -- PI968 Section IB. Packaging. Required labeling. Shipping instructions: Batteries & cells only. BACK HOME. Batteries > 0.3g and <math>\leq 2\text{g}</math> > 2 batteries. Lithium Batteries & Cells. Shipping Guide. byAir o Each battery or cell must be protected against a short circuit and placed in an inner packaging

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Primary (non-rechargeable) lithium metal batteries and cells, (UN 3090), are forbidden for transportation aboard passenger-carrying aircraft. Such batteries transported in accordance ...

UN 3090 P903 LP903 P908 LP904 P909 &gt; 1 gr of Lithium / Cell &gt; 2 gr of Lithium / Battery N/A UN certified Class 9 LB Label (1) ADR Declaration ... Each package must be labelled with a completed lithium battery mark: -&gt; UN Number -&gt; a telephone number where more information on the shipment and its content can be obtained Marking specifications:

Data for UN 3090, LITHIUM METAL BATTERIES (including lithium alloy batteries) UN-number: 3090: Name: LITHIUM METAL BATTERIES (including lithium alloy batteries) Comment: Class: 9: Classification: M4: Packing group: Labels: 9A: Danger number: Transport category: 2: Tunnel code (E) Special provisions: 188 230 310 376 377 387 636:

&#202; UN 3090, Lithium metal batteries; and &#202; UN 3480, Lithium ion batteries or if inside a piece of equipment or packed separately with a piece of equipment as: &#202; UN 3091, Lithium metal batteries contained in equipment; or &#202; UN 3091, Lithium metal batteries packed with equipment; and &#202; UN 3481, Lithium ion batteries contained in equipment; or

UN numbers . UN 3090 (shipment of cells and batteries . in bulk) UN 3091 (cells and batteries . contained in equipment . or . packed with it) Shipping names . Lithium Metal Batteries . Hazard classification . Depending on their lithium metal content, some single cells and small multicell battery packs may be non-assigned to Class 9.

The image below: Variety of Lithium-Metal Cells shows examples of cells that may be packaged according to UN 3090. Lithium-metal cells and batteries are capable of overheating and undergoing a process called thermal runaway. Thermal runaway can occur without warning as a result of various factors, including if the package is damaged, overheated ...

1. Lithium battery Class 9 label shall be attached. 2. Marking requirements as dangerous goods shall be met in accordance with Section 7 of the DGR. 1. Lithium battery mark shall be attached. 2. Marking requirements as Overpack under Section II of PI969 shall be met, if applicable.-Lithium Metal or Lithium Alloy Cells and Batteries (UN 3090 and ...

This instruction applies to damaged or defective lithium ion cells and batteries and damaged or defective lithium metal cells and batteries, including those contained in equipment, of UN Nos. 3090, 3091, 3480 and 3481. (1) The packaging shall conform to the packaging group I performance level and meet the following criteria:

The UN3090 Lithium Battery Handling Mark is a distinctive label mandated by international regulations for the transportation of lithium batteries. Lithium batteries, known for their efficiency and high energy density,



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are widely used in various electronic devices, electric vehicles, and industrial applications.

Lithium batteries o UN 3090, Lithium metal batteries; and o UN 3480, Lithium ion batteries f inside a piece of equipment or packe o UN 3091, Lithium metal batteries contained in equipment; or o UN 3091, Lithium metal batteries packed with equipment; and o UN 3481, Lithium ion batteries contained in equipment; or

applicable packing instruction must be assigned to Class 9 and consigned as UN 3090 (Lithium metal batteries), UN 3480 (Lithium ion batteries), UN 3091 (Lithium metal batteries contained in equipment or Lithium metal batteries packed with equipment) or UN 3481 (Lithium ion batteries contained in equipment or Lithium ion

Product Name LITHIUM CSC & PMX CELLS AND BATTERIES Other means of identification UN/ID no UN3090 (if packed in or with equipment use UN3091) Synonyms Hermetically-Sealed Lithium Sulfuryl Chloride Cells and Batteries Recommended use of the chemical and restrictions on use Recommended use No information available

The Hazmat Table in 49 CFR 172.101 &quot;lists and classifies those materials which the Department (of Transportation) has designated as hazardous materials for purposes of transportation&quot;. UN/NA datasheets display several items from the Hazmat Table: proper shipping names, hazard classes and divisions (explosives may also include a compatibility group letter label codes, and special ...

UN 3090, Lithium Metal Batteries; UN 3091, Lithium Metal Batteries packed with equipment; UN 3091, Lithium Metal Batteries contained in equipment; Ship Prototypes of Lithium batteries. 173.185(e) - Must be shipped by ground as Class 9; A55 Cargo aircraft under approval. (The lead time for approval is around 3-6 months.

UN No. 3090: NAME and description: LITHIUM METAL BATTERIES (including lithium alloy batteries) Technical name (SP 274, 318, 61, 220) Alternative PSN: Class: 9: Classification code: M4: Packing group: Labels

Sea 3090 Lithium battery (Lithium metal battery) 9 - No - P903 and SP188 a) In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and ... IMDG Code regulated these products as UN 3090, Lithium Metal batteries, class 9 dangerous goods with Special Provision 188 and 903 assigned c) All ...

Lithium batteries are classified in Class 9 - Miscellaneous dangerous goods as: o UN 3090, Lithium metal batteries; and o UN 3480, Lithium ion batteries or, if inside a piece of equipment or packed separately with a piece of equipment to power that equipment as: o UN 3091, Lithium metal batteries contained in equipment; or

containing both lithium ion cells and lithium metal cells must be shipped as UN 3090 or UN 3091, as

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appropriate. Note 1 - A small "hybrid" battery may not contain more than 1.5 g of lithium metal contained within all

Since 2015, Lithium Metal Batteries UN3090, when shipped by themselves (not contained in or packed with equipment), are forbidden for transport as cargo on passenger aircraft. These batteries are allowed for transport as cargo only on flights ONLY CARGO. Via Tiepolo, 24 - 20054, Segrate (MI)

UN 3090, Lithium metal batteries (shipped by themselves) ... UN 3481, Lithium ion batteries contained in equipment or packed with equipment; Zarges K470 cases with appropriate inserts are able to satisfy UN3480 battery packaging regulations. 05: Labelling Labelling Requirements. There are also different labelling requirements for ...

UN 3090, Lithium metal batteries <1g lithium content NA <2g lithium content NA. Allowable Net Mass Per Package Shippers Dec? Labels/ Markings UN Spec Required? Additional? (PAX) Forbidden 2.5kg (CAO) YES. Lithium Battery Mark + Class 9 + CAO Label. No UN Spec. 1.2 m drop test. 3 m stack test

Substance information for UN 3090 - Lithium metal batteries including lithium alloy batteries based on the Hazardous Materials Table (Title 49 CFR 172.101) to assist in preparing a risk ...

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