



## Un 3090 lithium metal batteries

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?

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 damaged lithium battery be transported on a plane?

Damaged lithium batteries are forbidden from air transport. See page 06 of this guide for information on damaged batteries. These shipments are forbidden to be transported as cargo on passenger aircraft. 2 batteries. n/a.

Can a lithium battery be shipped with other hazardous materials?

Lithium metal cells and batteries must not be packed in the same outer packaging with other hazardous materials. A shipment that exceeds the quantity limitations in the table, the overpack limit, or consignment limit, must be shipped as a fully regulated lithium metal battery (See Guide 05 for provisions).

What are the requirements for a lithium battery?

The lithium batteries must be of a type that have successfully passed the UN38.3 tests and contain the necessary systems to prevent overcharge and over discharge between the batteries.

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.

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

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

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cell or battery that was first

Batteries up to 2g UN 3090, Lithium Metal Batteries --P.I. 968 Section IB LITHIUMMETALBY AIR BATTERIES/CELLS ONLY o[FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved. o[FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing

**UN 3090 Lithium Metal Batteries Cells with >1g lithium OR Batteries with >2g lithium**  
**PACKAGING REQUIREMENTS:** Follow Packing Instruction 968 IA - Inner packaging must completely enclose cells/batteries. - Outer packaging must be used. - Complete package must meet PGII Performance Standards  
**LABELLING REQUIREMENTS: MARKING ...**

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.

and must be assigned to UN 3480, lithium ion batteries, or UN 3090, lithium metal batteries, as applicable. For carriage by passengers, power banks are considered spare batteries and must be individually protected from short-circuit and carried in carry-on baggage only.

Batteries Per Package 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 "IB" required on DGD

Lithium metal and lithium ion batteries larger than those described in Section II of the 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

nd- IATA( edition of DGR)/ICAO (air transportation): UN 3090 or UN 3091 - IMDG (sea transportation) : UN 3090 or UN 3091 - Transportation within the US-DOT, 49 Code of Federal Regulations - Lithium Metal Batteries in compliance with Section IA of PI968 or PI970. Risk phrases . Lithium (Li) R14/15 R21 R22 R35 R41 R42/43 Reacts violently with ...

UN/NA 3090: CAMEO Chemicals has no chemical datasheets with response recommendations for this UN/NA number. Response recommendations from the ERG are provided below. ... UN: Lithium metal batteries including lithium alloy batteries: 9: 9: 9 - Miscellaneous hazardous material

The batteries UN3090 are lithium metal batteries, non rechargeable, without equipment. The lithium metal



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batteries UN3090 are classified: Class 9 - UN3090 - Lithium metal batteries - Batteries not packed with or installed with the equipment. For each model of battery, there are different requirements to be verified:

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:

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

4 o Lithium metal (LiM) o are generally non-rechargeable (primary, one-time use). o have a longer life than standard alkaline batteries o are commonly used in hearing aids, wristwatches, smoke detectors, cameras, key fobs, children's toys, etc. LITHIUM BATTERY TYPES There are many different chemistries of lithium cells and batteries, but for transportation purposes, all lithium ...

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:

UN Spec Required? Additional? PI 968, Section IA. 3090, Lithium metal batteries > 1g lithium content. NA > 2g lithium content. NA (PAX) Forbidden ... 3090, Lithium metal batteries. NA. NA > 0.3g and < 2g lithium content < 2 Batteries (PAX) Forbidden N . 1. 9 + Lithium Battery Mark + CAO Label 1.2 m drop test < 1; One Package Per

UN3090 is a UN ID for lithium metal batteries [not rechargeable and are not packed with or installed in equipment]. There is one entry in the DOT Hazardous Materials Table for UN3090. UN3090 - Hazard Class 9, Lithium metal batteries [including lithium alloy batteries] ... Item No. SLB335C-3090. CHEMTREC UN3090 Lithium Battery Handling Marking ...

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

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 o UN 3091, Lithium metal batteries packed with equipment; and o UN 3481,

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Lithium ion ...

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 ...

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 ...

Lithium metal and lithium ion batteries larger than those described in Section II of the 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

Shipments of UN 3090, lithium metal cells and batteries are prohibited from carriage on Jetstar aircraft. This applies to Section IA, IB and Section II of Packing Instruction 968. Not used. GK-06 . Shipments of UN 3480 - Lithium ion cells and batteries, including ...

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.

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