



# Lithium ion battery label requirements

Do lithium ion batteries need a UN number?

Lithium ion batteries will use labels with one of the following UN numbers: If you're shipping lithium ion batteries as a standalone, use a battery label with UN3480. Standalone means the package only contains batteries and nothing else. If you're shipping lithium ion batteries contained in or packed with equipment, use a battery label with UN3481.

Do I need a label for lithium ion batteries?

If you're shipping lithium ion batteries contained in or packed with equipment, use a battery label with UN3481. Lithium metal batteries will use labels with one of the following UN numbers: If you're shipping lithium metal batteries as a standalone (no other items in the package), use a battery label with UN3090.

How do I label a lithium battery?

Except when lithium cells (<1g) or batteries (<2g) are packed with or contained in equipment in quantities not exceeding 5kg net weight, the outer package must be marked: "LITHIUM METAL BATTERIES - FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT". The orange Cargo Aircraft Only label can be used as an alternative in the 48 contiguous states.

What are battery labeling guidelines?

These labeling guidelines will be designed to improve battery collection by: Identifying battery collection locations and increasing accessibility to those locations. Promoting consumer education about proper battery management. Reducing safety concerns relating to improper disposal of batteries.

What is a lithium battery label?

Labels are printed with the letters 'UN' and a 4-digit number. Think of it like a special code. These numbers clarify 2 types of crucial information: the lithium battery type and packaging method. Packaging method refers to how the lithium batteries are being shipped. This can be done in 3 ways:

Do lithium batteries need UN specification packaging?

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

Lithium battery labels: For lithium-ion and lithium-metal batteries, indicating specific hazards and handling precautions. Cargo aircraft only labels: For batteries restricted to cargo planes. Handling labels: With detailed handling instructions to ...

The Common Types of Lithium Battery Labels. Lithium battery shipping labels UN3080, UN3081, UN3490, and UN3491 are used to identify and properly handle packages containing lithium batteries during transport.

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Here's an explanation of each label and their main differences: 1. UN3480: Lithium-Ion batteries

carrier requirements before shipping. Federal Aviation Administration Battery Types ... Rating) Of Your Lithium Ion Battery/Cell? \*For information on how to calculate the Wh rating, click on the information button in the top right corner of the page. ... Lithium Battery Mark + CAO Label + Overpack Mark (if applicable) 1.2 m drop test. SOC < 30% ...

Lithium battery shipping information for air transport referenced in this guide (including pictured labels) are based on the 2022 International Air Transport Association (IATA) Dangerous Goods Regulations (DGR) 63rd Edition section 7.3.18.2, 7.4.2 and 7.1.C. Lithium battery shipping information for ocean transport referenced in this guide

Lithium Battery Class 9 Hazard Label Lithium Battery Mark Cargo Aircraft Only Label NOTE: No text other than the Class "9" must be included in the bottom part of the Lithium Battery Class 9 label. IATA 7.2.2.4 \* \*\* Shipper must add UN number(s). It should be 12 mm high AND The phone number is optional.

Some Li-ion batteries, battery packs, and cells (e.g., button and laptop batteries) may be exempt from the HCS label requirements if they meet the definition of a consumer product. 2 The manufacturer or importer is also required to provide the SDS to downstream employers if it is known workers may be exposed to a Li-ion battery's physical or ...

o The type of lithium battery you have and what section it falls under will determine the set of labels you'll need. o Lithium battery forbidden markings follows DOT's HM-224C requirements for when transporting batteries is not permitted. o Comply with USPS Publication 52 regulation using our custom label with additional info tab. USPS ...

The European Commission (EC) lays out clear requirements for battery labeling in Directive 2006/66/EC and amendments to Regulation ... Lithium-ion Car Battery Recycling Advisory Group also mentioned battery labeling in its final report, released in March 2022. In this report, the advisory group suggests requiring OEMs in California to attach ...

Causes of lithium-ion battery failure. If lithium-ion batteries fail, energy is rapidly released which can create fire and explosions. Failing lithium-ion batteries may release highly toxic fumes and secondary ignitions even after the flames have been extinguished. Thermal runaway. A chain reaction that can lead to overheating, fire, and even ...

The technical documentation should contain information (e.g. description of the lithium battery and its intended use) that makes it possible to assess the lithium battery's conformity with the requirements of the regulation. The regulation lists the required documentation in Annex VIII. Digital Battery Passport

&#167; 173.185 Lithium cells and batteries. As used in this section, consignment means one or more packages



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of hazardous materials accepted by an operator from one shipper at one time and at one address, receipted for in one lot and moving to one consignee at one destination address. Equipment means the device or apparatus for which the lithium cells or batteries will ...

IATA Lithium Battery Guidance Document - 2020 APCS/Cargo Page 2 12/12/2019 Definitions 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.

example, a package containing a notebook computer may have 1 lithium ion battery and 2 small lithium metal coin cells installed in the product. This single package does not require the lithium battery handling label. The number of cells contained inside the lithium ion battery are NOT counted towards the 4 cell limitation because it is the battery

Labeling lithium batteries for ground/sea transport. Lithium batteries are classified internationally as a class 9 hazardous material and so require the Class 9 label and the appropriate Lithium-ion Battery Handling Label or Lithium Metal Battery Handling Label. Restrictions by individual carriers. Further, certain carriers have their own ...

2024 Lithium Batteries Regulations: Battery Types. Step 1 - What type of battery are you shipping? Tip: Click the below buttons to get more details on each type of batteries. Lithium ion batteries or cells . are rechargeable (secondary) lithium ion or lithium polymer cells or batteries. These are very commonly found in portable consumer

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 ... **MEDIUM LITHIUM ION CELL/BATTERY REQUIREMENTS FULLY REGULATED LITHIUM ION CELL/BATTERY REQUIREMENTS SMALL LITHIUM METAL CELL/BATTERY ...**

This publication directs readers to scenario-based shipping guides that outline the requirements to ship packages of lithium cells and batteries in various configurations. Each distinct shipping guide in this document refers to the regulatory requirements for a specific lithium cell/battery type, configuration, or size.

Hazmat Training Requirements. 10 Ways to Cut Hazmat Costs. Air Transport of DG Guide. ... UN3481 Proper Shipping Name: Lithium ion batteries packed with or contained in equipment Hazard Class Label: Class 9 Lithium Battery (SMALLER CELLS AND BATTERIES) ... The lithium-ion battery inside the laptop and providing power to the laptop (equipment ...

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



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and batteries, but for transportation purposes, all lithium ...

Lithium ion cells  $\leq 20$  Wh; Lithium ion batteries  $\leq 100$  Wh; Lithium metal cells  $\leq 1$  gram of lithium; Lithium metal batteries  $\leq 2$  grams of lithium; As an aside, the DOT has higher limits for ground only shipments (previously called "medium" sized batteries). Here is the NEW "lithium battery mark" now mandatory for excepted sized ...

Reports indicate incidents have occurred while the product is in use, in storage, and during battery charging. There have been a number of recalls involving lithium-ion batteries/battery packs/battery chargers used in cellular telephones, portable computing products, personal electronic products, and electric scooters (hoverboards).

USPS Packaging Instruction 9D Lithium Metal and Lithium-ion Cells and Batteries -- Domestic. Except according to 349.21, lithium metal (nonrechargeable) cells and batteries and lithium-ion (rechargeable) cells and batteries are mailable in limited quantities domestically via air or surface transportation when they are installed in or packed with the equipment they are intended to ...

Web: <https://www.wholesalesolar.co.za>