

Un number lithium ion batteries

What is the UN number for lithium ion batteries?

(i) The mark must indicate the UN number: "UN3090" for lithium metal cells or batteries, or "UN3480" for lithium ion cells or batteries. Where the lithium cells or batteries are contained in, or packed with, equipment, the UN number "UN3091" or "UN3481," as appropriate, must be indicated.

How do I know if a lithium battery has a UN number?

Where the lithium cells or batteries are contained in, or packed with, equipment, the UN number "UN3091" or "UN3481," as appropriate, must be indicated. Where a package contains lithium cells or batteries assigned to different UN numbers, all applicable UN numbers must be indicated on one or more marks.

What is the proper shipping name for lithium ion batteries?

Proper Shipping Name Mark - "Lithium ion batteries packed with equipment" or "Lithium ion batteries contained in equipment", as appropriate. Note: if the package contains both lithium ion batteries packed with and contained in equipment, the proper shipping name is "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.

Are lithium ion batteries included in equipment?

This applies to UN 3481 Lithium ion batteries contained in equipment (see Section II of Packing Instruction 967) and UN3091 Lithium metal batteries contained in equipment (see section II of Packing Instruction 970), except that button cells installed in equipment (including circuit boards) need not be considered.

How much lithium ion battery should a package contain?

Lithium metal battery ≤ 2 g lithium content Lithium ion battery ≤ 100 Wh Packages containing LITHIUM BATTERIES (not contained in or packed with equipment) must not exceed 30 kg gross mass. Good quality packaging to withstand the shocks and loading normally encountered during transport. Constructed and closed to prevent loss of contents.

of Dangerous Goods. They are classified under CLASS 9, UN 3480 : Lithium-Ion Batteries, and UN 3481 : Lithium-Ion Batteries contained in equipment or packed with equipment. Prior to any shipment, the compliance with the following requirements points must be fulfilled:

For the purposes of this guidance document and the IATA Dangerous Goods Regulations, power banks are to be classified as batteries and must be assigned to UN 3480, lithium ion batteries, ...

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Lithium Ion UN Number. Lithium ion batteries will use labels with one of the following UN numbers: ... For lithium ion batteries, refer to Packing Instructions 965. For lithium metal batteries, refer to Packing Instructions 968. After locating the correct PI, you'll need to figure out which section applies to your shipment. Different sections ...

UN 3480 - LITHIUM ION BATTERIES FLOWCHART ... - PSN and UN number - Class 9 Li Battery label; Lithium Battery mark; - CAO Label Shipper's Declaration UN3480 Lithium ion cells and batteries must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity. ...

When the Lithium Battery Mark (IATA Figure 7.1.C) is required and used for Section IB and permitted Section II lithium battery shipments, the UN number(s) must be added to the mark. ... Note: The Lithium Battery Mark cannot be folded or wrapped around multiple sides of the package. UN 3480, Lithium Ion Batteries Sections IA and IB have a state ...

Substance information for UN 3480 - Lithium ion batteries including lithium ion polymer batteries based on the Hazardous Materials Table (Title 49 CFR 172.101) to assist in preparing a risk ...

"Lithium ion batteries, in compliance with Section II of PI967"on AWB. A telephone number is no longer required on the lithium battery mark. Lithium battery marks with a phone number may continue to be applied until December 31, 2026. NOTE: the requirement to apply lithium battery mark does not apply to: -- packages containing only button cell

UN 3481, Lithium-ion batteries contained in equipment; or; UN 3481, Lithium-ion batteries packed with equipment. UN Number and Packing Instructions . Below we have provided a summary of UN numbers and their corresponding Packing Instruction for each mode of transport. Shippers must refer to the relevant transport regulations for detailed ...

UN 3090 for lithium batteries and UN 3480 for lithium-ion batteries: Apply to cells shipped alone, batteries shipped alone, consignment of cells and batteries, ... Additional Phone Numbers. APAC +86 400 886 9926. EMEA +46 8 750 00 00. UK & EIRE +44 116 296 1620. Mexico +52 55 5998 0900. South America +55 11 2842 0444. Germany +49 711 27311 152.

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. ... o LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481 o GROUND & VESSEL TRANSPORT ... o NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, MUST NOT EXCEED ...

UN 3556 Vehicle Lithium-ion battery powered. UN 3557 Vehicle Lithium metal battery powered. Also, to consider, the introduction of Sodium ion batteries (not to be confused with Lithium-ion) but emerging as new technology that may have improved environmental benefits. UN 3551 Sodium ion batteries. UN 3552 Sodium

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ion batteries contained in ...

transport by air. Lithium metal batteries (UN 3090) are not allowed for transport in cargo of passenger aircrafts. Lithium -ion batteries (UN 3480) are accepted for cargo transport only with a State of Charge of 30% or less. Note: For the IATA Guidance Document on lithium batteries, see the address: o UN DGR Lithium Batteries

The UN (United Nations) number shipping name UN 3481 is used to describe lithium-ion batteries that are packed with equipment. The International Civil Aviation Organization's "Technical Instructions for the Safe Transport of Dangerous Goods by Air" paper and the IATA's "Dangerous Goods Rules (DGR)" document establish severe ...

Class: UN Number: Proper Shipping Name: Comments: 9: UN3480: Lithium ion batteries: Batteries (that are not packed with or installed in equipment) e.g. loose mobile phone batteries / laptop batteries / power tool batteries

Lithium batteries, especially lithium-ion batteries, have become a preferred energy source for many items due to their high power density and light weight as well as their rechargeable capability. ... The UN number is a 4-digit number assigned by the UN to substances and articles and is denoted by the prefix UN. The following (2) classification ...

Substance information for UN 3481 - Lithium ion batteries contained in equipment including lithium ion polymer 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. ... UN-Number Name Hazard Class; UN 3028: Batteries, dry ...

Due to the hazards associated with lithium batteries, there have been a number of changes to transport legislation over the past few years. Lithium batteries are articles and are now assigned their own UN numbers: ... UN 3481 -- lithium ion batteries contained in equipment, or lithium ion batteries packed with equipment (including lithium ion ...

o UN 3480 Lithium ion batteries o UN 3481 Lithium ion batteries packed with orcontained ... Issue 1 o Lack of "granularity" -two UN numbers and PSNs for ion and metal cells and batteries - Different energy densities (or mass/size) - Different chemistries - Different cell and battery type 6. ...

What is UN 38.3? UN 38.3 - Lithium metal and lithium-ion batteries is a subsection of the UN Manual of Tests and Criteria Part III, which includes requirements regarding lithium metal batteries and lithium-ion batteries.. This is explained, for instance, in 49 CFR Part 173 - Shippers - General Requirements for Shipments and Packagings of the Hazardous Material ...

TRANSPORT UNIT lithium ion batteries or lithium metal batteries" was included in the twentieth edition of

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the Recommendations on the Transport of Dangerous Goods, Model ... "The cargo transport unit shall display the UN number in accordance with 5.3.2.1.2 and be placarded on two opposing sides in accordance with 5.3.1.1.2."

From lithium, dry cell alkaline,, and nickel-metal hydride to wet cell batteries, each type has unique characteristics and potential hazards, necessitating specific packaging, ...

This applies to UN 3481 Lithium ion batteries contained in equipment (see Section II of Packing Instruction 967) and UN3091 Lithium metal batteries contained in equipment (see section II of Packing ... What are the requirements for the telephone number on ...

UN-number. Lithium batteries use various chemical processes to ensure maximum performance. It is therefore classified as a hazardous product and given a UN-number. With this number, the type of packaging required can be determined on the basis of the regulations. The UN-number is also linked to a desired mode of transport.

lithium ion cells and batteries (see UN Nos. 3090, 3091, 3480 and 3481, and the applicable special ... 38.3.3 When a cell or battery type is to be tested under this sub-section, the number and condition of cells and batteries of each type to be tested are as follows: (a) When testing primary cells and batteries under tests 1 to 5 the following ...

UN Identification Numbers Applicable to Lithium Battery Shipments UN3480: Loose lithium ion batteries UN3481: Lithium-ion batteries "packed with" or "contained in" equipment UN3090: Loose Lithium metal batteries: UN3091: Lithium metal batteries "packed with" or ...

When shipping lithium ion batteries, it is essential to follow the proper guidelines and regulations to ensure safety during transportation. In this article, LiPol will discuss the proper shipping name and UN number required for packages of lithium ion batteries shipped separately under IATA Packing Instruction 965 Section IA.

Lithium ion and lithium polymer cells or batteries - 2022 IATA DGR UN3480 - PI965 UN 3481 -PI966 UN3481 - PI967 ... A "set" of cells or batteries is the number of individual cells or batteries that are required to power each pieceof equipment. ... Per Battery: > 100Wh UN specification packaging required

lithium ion batteries, un 3480 o ground & vessel transport o battery size: small (un tested) o no equipment o declaration/shipping paper: no o limit: 30 kg gross wt ... o no limit to the number of button cells installed, must not exceed 5 kg net per pkg

number of higher-powered devices to market. With the increased energy density comes greater ... United Nations (UN) Manual of Tests and Criteria, Section 38.3. The UN 38.3 testing accounts for transportation impacts such as: o Altitude ... o UN3481, Lithium ion batteries contained in equipment including lithium ion



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