



Lithium ion batteries contained in equipment

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.

What is a lithium ion battery used for?

Lithium metal batteries are generally used to power watches,calculators,cameras,etc; Lithium-ion batteries (sometimes abbreviated Li-ion batteries) are a type of secondary (rechargeable) battery commonly used in consumer electronics. Also included within lithium-ion batteries are lithium polymer batteries.

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.

How much lithium metal can be stored in a battery?

Per special provision A101,the quantity of lithium metal in batteries contained in any piece of equipment must not exceed 12g per cell and 500g per battery. OUTER PACKAGING FOR PACKED WITH EQUIPMENT VS. CONTAINED IN EQUIPMENT The outer packaging holding the batteries must meet the Packing Group II performance requirements.

Are lithium ion batteries regulated?

Shipping of lithium ion cells >60 WH and batteries >300 WH and lithium metal cells >5 grams lithium per cell and >25 grams per battery as fully regulated Class 9 hazardous materials. This includes Class 9 batteries that are "packed with" and "contained in" equipment. There is no general relief for larger batteries.

Lithium Ion Batteries packed with equipment UN3481, P.I. 966 Lithium Ion Batteries contained in equipment UN3481, P.I. 967 Section II Acceptable to most locations. Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh installed in equipment (including circuit boards) or o No Shipper"s Declaration o Strong rigid outer ...



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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 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

Description Lithium Cells / Batteries loose (bulk) Important: State of Charge (SoC) of the battery/ cell must not exceed 30% Lithium Cells/Batteries packed with equipment Lithium Cells / Batteries contained in equipment Lithium ion cells / batteries capacity Per cell: ≤ 20Wh Per battery: ≤ 100Wh Per cell: ≤ 20Wh Per battery: ≤ 100Wh

Lithium Ion Batteries Contained in Equipment or Lithium Ion Batteries Packed with Equipment 9 Some of the battery types shown above may be shipped under regulatory exceptions that provide relief from the full requirements of the hazardous materials/dangerous goods regulations. In

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:

Applicable regulations; UN-No: 3480 (UN3480) or UN3481 Lithium-Ion Batteries and Lithium-Ion batteries contained in equipment or packed with equipment. Any Lithium-Ion batteries to be shipped are of the type proven to meet the requirements of each test set out in the UN Manual of Tests and Criteria, PartIII, sub-section 38.3.

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 o lithium ion batteries contained in equipment, un 3481 o ground & vessel transport o battery size: small (un tested) o declaration/shipping paper: no

UN3481, Lithium ion batteries packed with equipment >20 Wh Minimum to power equip + 2 spare sets >100 Wh Minimum to power equip + 2 spare sets. Allowable Net Mass Per Package ... UN3481, Lithium ion batteries contained in equipment <20 Wh NA <100 Wh NA. Allowable Net Mass Per Package Shippers Dec? Labels/ Markings UN Spec Required? Additional? 5 kg

Packages and overpacks containing Lithium batteries - UN 3480 (Packing Instruction 965), Lithium ion batteries packed with/contained in equipment - UN 3481 (respect ively Packing Instruction 966 and 967), Lithium metal batteries packed with/contained in equipment - UN 3091 (respectively Packing Instruction 969



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and 970)

Lithium ion batteries contained in equipment; or o UN 3481, Lithium ion batteries packed with equipment. In the absence of exceptions, these batteries must be shipped in quantities that comply with the limitations contained in the Regulations (see DGR Table 4.2). Also,

Proper Shipping Name: Lithium Ion Batteries contained in equipment Lithium ion batteries in compliance with Section II of PI967 Product: A-037-001650SAA,3.7V 1.65Ah 6.1Wh Li Polymer Battery Date: January 06, 2017 No.: M20170106 Company Name: Axiss Technology Corp. Address: 8F-1, 96, Long An Street, Taoyuan 33057, Taiwan

Lithium metal batteries contained in equipment (see section II of Packing Instruction 970), except that button cells installed in equipment (including circuit boards) ... The number of cells contained inside the lithium ion battery are NOT counted towards the 4 ...

o UN 3481, Lithium ion batteries contained in equipment; or o UN 3481, Lithium ion batteries packed with equipment. Lithium battery test summary - except for button cells installed in equipment (including circuit boards), manufacturers and subsequent distributors of cells or batteries and equipment powered by

UN3481, Lithium ion batteries contained in equipment <20 Wh. NA <100 Wh. NA. 5 kg; N. 3. Lithium Battery Mark. 4. Suitable material of adequate strength and design. See PI 967 for RFID tags. Packed to prevent accidental activation. 1."Lithium ion batteries, in compliance with Section II of PI965-CAO" on AWB.

Lithium ion batteries contained in equipment meeting the provisions of Section II of Packing Instruction 967 of the IATA Regulations. No more than four cells or two batteries may be mailed in any single package. Lithium battery mark labels are not required for packages that contain no more than four cells or two batteries contained in devices.

c)UN3481,?????????(lithium ion batteries contained in equipment); d)UN3090,?????(lithium metal batteries); e)UN3091,?????????(lithium metal batteries packed with equipment);

There are two types of lithium batteries that U.S. consumers use and need to manage at the end of their useful life: single-use, non-rechargeable lithium metal batteries and rechargeable lithium-polymer cells (Li-ion, Li-ion cells). Li-ion batteries are made of materials such as cobalt, graphite, and lithium, which are considered critical ...

Lithium Batteries are packed and shipped as individual items (loose/bulk). Example: Loose Batteries/Power bank; Lithium Batteries are packed separately but shipped with equipment in the same box. Example: A cell phone with a replaceable Lithium Battery; Lithium Batteries are contained or installed in equipment and



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therefore shipped in the same box.

Lithium Ion Batteries Contained In Equipment (UN3481 - Class 9) Lithium Metal Batteries Contained In Equipment (UN3091 - Class 9) If you are shipping a cordless power drill, laptop computer or a piece of equipment containing a lithium battery, the shipment will be classed as hazardous cargo, however it is still possible to ship on passenger ...

c)UN3481,????????(lithium ion batteries contained in equipment); d)UN3090,????(lithium metal batteries); e)UN3091,????????(lithium metal batteries packed ...

UN 3481, Lithium Ion Batteries packed with equipment; UN 3481, Lithium Ion Batteries contained in 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.

Lithium ion batteries contained in equipment including lithium ion polymer batteries. Emergency Response Guide No. 147: Data from the Hazardous Materials Table Source: 49 CFR §172 (2018/07) Packing Group ; Packing Group (3) Hazard Class 9 Miscellaneous hazardous materials (4) Identification number. UN 3481

LITHIUM ION BATTERIES (including lithium ion polymer batteries) 34, 123, 137, 138, 149,159: UN3481: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries) or. LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) 34, 123, 137, 138, 159

quantity is the net weight of the article, e.g. for "Lithium ion batteries contained in equipment", the net quantity is the net weight of the lithium ion batteries in the package. Overpack means an enclosure used by a single shipper to contain one or more packages and to form one handling unit for convenience of handling and stowage.

Lithium metal and lithium ion batteries larger than those permitted by 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

UN3480: Lithium-ion batteries shipped by themselves (rechargeable). UN3481: Lithium-ion batteries packed with or contained in equipment. UN3090: Loose lithium metal batteries shipped by themselves (non-rechargeable). UN3091: Lithium metal batteries "packed with" or "contained in" equipment. Lithium-ion shipping label requirements



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UN3480 Lithium-ion batteries; UN3481 Lithium-ion batteries packed with or contained in equipment; Class 9. Milwaukee Lithium-ion batteries are to be shipped in compliance with relevant requirements of TDG "Part 2" (Section 2.43), ...

Applicable regulations; UN-No: 3480 (UN3480) or UN3481 Lithium-Ion Batteries and Lithium-Ion batteries contained in equipment or packed with equipment. Any Lithium-Ion batteries to be shipped are of the type proven ...

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