

Un number for 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.

How much lithium metal can be in a battery?

In addition to the applicable requirements of 173.185, the quantity of lithium metal in the batteries contained in any piece of equipment must not exceed 12 g per cell and 500 g per battery. (8) Packing Authorizations (173.***)

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.

Can a lithium ion battery be shipped at a state of charge?

Lithium-ion Cells and Batteries (UN3480) must be shipped at a state of charge (SoC) not exceeding 30% of their rated capacity. Cells and batteries at a SoC of higher than 30% can only be shipped with the approval of the State of Origin and the State of the Operator, see Special Provision A331. Lithium Metal Batteries UN3090

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. ... UN-Number Name Hazard Class; 1,3,2-Benzodioxaborole: UN 2456: 2-Chloropropene: 3: UN ...



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Safety Data Sheet for Lithium Metal Battery Document Number: RRS0541 Revision: 1 Date of prepared: 1 Jan 2016 Remark: "N.A." is indicated if not applicable. Section I - Product and Company Identification ... Primary (non-rechargeable) lithium metal batteries and cells, (UN 3090), are forbidden for transportation aboard passenger-carrying ...

38.3 Lithium metal and lithium ion batteries 38.3.1 Purpose This section presents the procedures to be followed for the classification of lithium metal and lithium ion cells and batteries (see UN Nos. 3090, 3091, 3480 and 3481, and the applicable special ... the number and condition of cells and batteries of each type to be tested are as ...

LITHIUM METAL BATTERIES Section IA Acceptable to dangerous goods locations where UN3090 is not prohibited. 1 ... aggregate lithium content in excess of 2g.2 o Shipper's Declaration required in net weight KG. o UN number, proper shipping name and shipper/ consignee name and address on the package o UN specification packaging required (PGII

If battery is not installed, must ship as "UN 3091, Lithium Metal Batteries Packed with 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 NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, MUST NOT EXCEED ...

United Nations/North American Number Datasheet. 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. ... Lithium metal batteries including lithium alloy batteries: 9: 9: 9 - Miscellaneous hazardous material ...

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 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 flowcharts are intended to provide guidance on the classification for lithium ion and lithium metal batteries. How to package lithium batteries for shipping by air

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. ... UN-Number Name Hazard Class; UN 3028: Batteries, dry, containing potassium hydroxide ...

UN 3091, Lithium metal 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

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their corresponding Packing Instruction for each mode of transport. Shippers must refer to the relevant transport regulations for detailed ...

Lithium metal batteries are generally non-rechargeable and contain metallic ... This applies to UN 3481 Lithium ion batteries contained in equipment (see Section II of Packing Instruction 967) and UN3091 ... What are the requirements for the telephone number on the lithium battery

UN-Number Name Hazard Class; UN 1415: Lithium: 4.3: Lithium acetylide ethylenediamine complex, see Water reactive solid etc: UN 1410: Lithium aluminum hydride: 4.3: ... UN 3091: Lithium metal batteries packed with equipment including lithium alloy batteries: 9: UN 1472: Lithium peroxide: 5.1 ...

o UN 3091, Lithium metal batteries contained in equipment; or o UN 3091, Lithium metal batteries packed with equipment; and ... number, email address and website for more information; (c) Name of the test laboratory to include address, phone number, email address and

o UN 3090 Lithium metal batteries o UN 3091 Lithium metal batteries packed with or contained in equipment 5. 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 ...

UN Spec Required? Additional? PI 968, Section IA. 3090, Lithium metal batteries >1g lithium content. NA >2g lithium content. NA (PAX) Forbidden 35kg (CAO) Y. ... 1."Lithium metal batteries, in compliance with Section II of PI968-"CAO"; on AWB. 2."Lithium ion batteries, in compliance with Section II of PI969"; on AWB.

Cells ? 1 g lithium metal Batteries ? 2 g lithium metal Or quantities ? limits of Section IB Cells <= 1 g lithium metal Batteries <= 2 g lithium metal Section IA Fully Regulated Max net quantity per package: PAX A/C: FORBIDDEN CAO A/C: 35 kg - UN Specification Pkg (PG II Performance); - PSN and UN number; - Class 9 Li Battery label;

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 ...

Lithium metal batteries will use labels with one of the following UN numbers: UN3090 UN3091; If you're shipping lithium metal batteries as a standalone (no other items in the package), use a battery label with UN3090. If you're shipping lithium metal batteries contained in or packed with equipment, use a battery label with UN3091.

Since 2007, Dangerous Goods Regulations differentiate between lithium metal batteries (UN 3090) and lithium-ion batteries (UN 3480). [2] ... In the past 20 years, although there has not been an increase in the total number of button cell batteries ingested in a year, researchers have noted a 6.7-fold increase in the risk that an

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ingestion would ...

UN 3091 - lithium metal batteries contained in equipment; UN 3480 - loose lithium-ion batteries (not contained in, or packed with, equipment) ... However, there are a large number of unbranded lithium battery products on the market, popular for their low prices, but with poor documentation and little information regarding how they are ...

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 ...

o lithium metal batteries (UN 3091) contained in temperature monitoring devices (e.g. data loggers), ... lithium batteries, and phone number of a person/agency, who can provide additional information about the batteries. Delete . BL (Jetstar Pacific) BL-01 . Dangerous goods consigned as cargo are not accepted for carriage on any Jetstar ...

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