

# Un code for lithium ion 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?

How are lithium ion batteries regulated?

These are governed by a number of UN regulations (specifically UN3480, UN 3481 and UN3090), as well as rules set out by various transport bodies (including the IATA - International Air Transport Association). Battery packaging for Lithium Ion is tightly regulated by various legislation, including UN3480, UN3481 and IATA specific rules

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.

What is a lithium polymer battery?

Lithium polymer batteries are considered a type of lithium ion battery. Lithium ion batteries are used in consumer goods such as cell phones, electric vehicles, laptop computers, power tools, drones, etc. What is the difference between "contained in equipment" and "packed with equipment"?

Is a lithium battery mark required on a package?

G. Section II in Packing Instructions 967 and 970 states that "the lithium battery mark is not required on consignments of two packages or less where each package contains no more than four cells, or two batteries installed in equipment." What is the intent of this provision?

How much lithium ion battery should a package contain?

Lithium metal battery  $\leq 2$  g lithium content  
Lithium ion battery  $\leq 100$  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.

vessel: imdg code, chapter 3.3, sp 188 . navigate (click): small lithium ion batteries packed with equipment . net wt of small batteries per package is greater than 5 kg ... small lithium ion batteries (un tested) o declaration/shipping paper & er info (sds or erg page): yes

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UN Number Name of material; 3480: Lithium-ion batteries: 3481: Lithium-ion batteries contained in equipment or packed with equipment: 3536: Lithium-ion batteries installed in cargo transport unit: 3171: Battery-powered equipment or vehicle with lithium-ion batteries

lithium ion cells and batteries (see UN Nos. 3090, 3091, 3480 and 3481, and the applicable special provisions of Chapter 3.3 of the Model Regulations). 38.3.2 Scope ... lithium ion battery, with a Watt-hour rating of more than 6 200 Watt-hours, that battery assembly does not

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 ...

Lithium ion and lithium polymer cells or batteries - 2022 IATA DGR UN3480 - PI965 UN 3481 -PI966 UN3481 - PI967 ... Service Code "HE" ... Per Battery: > 100Wh UN specification packaging required Maximum net weight of cells/batteries per package: 35 kg (CAO) ...

LITHIUM ION BATTERIES UN3480 . 1. Identification of Product and Company Product Name: LITHIUM - ION BATTERY Other names: LFP, LiFePO: 4, NMC, NiMnCo, ... HAZCHEM CODE: 4W. EXPLOSION: Closed containers may explode, burst, rupture or ...

Lithium ion batteries, UN 3480, packages containing a single aircraft battery with a net mass not exceeding 35kg; and ... The table is based on U.S.-Code 49 CFR &#167;177.848. No compatibility information for class 9 in 49 CFR &#167;177.848 included. There are no restrictions with hazardous materials, as pointed out in the instructions for using the ...

Passing of safety tests for lithium batteries and cells (Refer to the UN Manual of Tests and Criteria- ... o Use of separate proper shipping names for lithium ion batteries and lithium metal batteries: o Lithium-ion batteries: UN3480 ... Dangerous Good Regulations and the IMDG Code are acceptable for ground transport within the

LITHIUM ION BATTERIES (PI 965, Section IB) Revision Date: 12/16/2021 Page 1 of 8 [Guide #2] ... UN 3480, LITHIUM ION BATTERIES : Battery Testing Data . LITHIUM ION CELLS OR BATTERIES MUST MEET THE REQUIREMENTS OF EACH TEST IN THE . UN Manual of Tests and Criteria, Part III, Subsection 38.3.

The entry UN 3536 "LITHIUM BATTERIES INSTALLED IN CARGO TRANSPORT UNIT lithium ion batteries or lithium metal batteries" was included in the twentieth edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations, together with special provision 389.

Code (IMDG Code) subject to the additional conditions and limitations of the HMR specified in subpart C of



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part 171 of the HMR (167;167; 171.22-26). ... PHMSA's "Announcing New UN Requirement for Lithium Battery Test Summaries" outreach publication. ... o UN3481, Lithium ion batteries packed with equipment including lithium ion polymer ...

There are six UN classification codes for lithium batteries: UN3480: Lithium Ion (Li-ion) Batteries ; UN3481: Li-ion batteries packed with equipment; UN3481: Li-ion batteries contained in equipment; ... Lithium-ion batteries: This type is mostly used in laptops, smartphones, and EVs. They have great energy density and a long lifespan.

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. Rated capacity.

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. ... VESSEL: IMDG CODE, CHAPTER 3.3, SP 188 . Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

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

IMO Class Packing group II IMO-Labels 9 Proper shipping name Lithium-Ion batteries, UN 3480 IMDG Code: Special provisions 188, 310, 376, 377, 636 and 348 will apply and Packing ... 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,

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. ... Product code N#176:XXXXXXXXXX Company reference Name: YYYYYYYYYY Address: YYYYYYYY Telephone:YYYYYYY ...

Numeric Codes; A-Codes; B-Codes; IB-Codes and IP-Codes; N-Codes; R-Codes; T-Codes; TP-Codes; W-Codes; ... 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 ...

Data for UN 3480, LITHIUM ION BATTERIES (including lithium ion polymer batteries) UN-number: 3480: Name: LITHIUM ION BATTERIES (including lithium ion polymer batteries) ... Labels: 9A: Danger number: Transport category: 2: Tunnel code (E) Special provisions: 188 230 310 348 376 377 387 636: Limited quantity: 0: Excepted quantity: E0: Packing ...

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o 2006 UN (2009 ICAO) o UN 3480 Lithium ion batteries o UN 3481 Lithium ion batteries packed with or contained in equipment o UN 3090 Lithium metal batteries o UN 3091 Lithium metal batteries packed with or contained in equipment 5

The words "lithium ion batteries, in compliance with Section II of PI966" must be placed on the air waybill, when an air waybill is used. Federal Aviation ... UN 3091, Lithium Metal Batteries Packed With Equipment &gt;1g lithium content Minimum to. power equip + 2 spare sets &gt;2g lithium content Minimum to; power equip + 2 spare sets.

UN 38.3: Transportation Testing for Lithium Batteries and Cells. Scope: Mandatory for the transportation of lithium-ion (Li-ion) batteries, ensuring safety whether they are shipped on their own or installed in a device. It is a crucial standard for the air transport of Li-ion batteries, referenced in the ADG Code.

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 ion batteries contained in ...

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 ...

UN 3091, PI970 - lithium metal batteries contained in equipment; UN 3480, PI965 - loose lithium-ion batteries (not contained in, or packed with, equipment) with a State of Charge of 30% or lower\* UN 3481, PI966 - lithium-ion batteries packed with equipment; UN 3481, PI967 - lithium-ion batteries contained in equipment

LITHIUM ION BATTERIES RLI (RU-03): Dangerous goods declaration Section I Package limit (net quantity of cells/batteries): PAX = 5 kg, ??? = 35 kg ... UN 3481 (RLI, ELI) Lithium ion batteries contained in equipment LABELLING PACKING INSTRUCTION 967 REQUIRED DOCUMENTATION Cells: more than 20 Wh, Batteries: more than 100 Wh Cells: not more 20 ...

Substance information for UN 3481 - Lithium ion batteries packed with 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. ... The table is based on U.S.-Code 49 CFR &#167;177.848. No ...



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