



Are lithium batteries class 9?

Lithium batteries are articles and are now assigned their own UN numbers: UN 3536 -- lithium batteries installed in cargo transport unit lithium ion batteries or lithium metal batteries. All lithium batteries are Class 9-- miscellaneous dangerous substances and articles.

What is a lithium ion battery?

Lithium Ion Batteries or Cells. are non-rechargeable (primary) lithium metal or lithium alloy cells or batteries. These have a longer life than standard alkaline batteries or cells, and are commonly used in cameras, smoke detectors, etc. Lithium Metal Batteries or Cells. 2024 Lithium Batteries Regulations: Lithium Ion Batteries.

Are lithium batteries rechargeable?

Lithium batteries fall into two broad classifications; lithium metal batteries and lithium ion batteries. Lithium metal batteries are generally non-rechargeable and contain metallic lithium. Lithium ion batteries contain lithium which is only present in an ionic form in the electrolyte and are rechargeable.

Are lithium batteries regulated?

Lithium batteries are being used more and more as technology grows and they are becoming more heavily regulated. Lithium batteries must be transported as dangerous goods and so they must follow the relevant mode regulations.

Are lithium batteries a hazard?

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 3536 -- lithium batteries installed in cargo transport unit lithium ion batteries or lithium metal batteries.

What are the abbreviations for lithium ion batteries?

(Note that T.6 and T.8 are not applicable to batteries.) You may also contact the airline of your choice or your national civil aviation authority if you have any further concerns about travelling with lithium metal or lithium ion batteries. The following abbreviations, acronyms and symbols are used throughout the document. Li batt.



FULLY DECLARED DG Section IB Restricted  
Section II Not subject to all aspects of the DGR  
Applicable to: Batteries over 100 Watts per hour  
(W/h) Label required Class 9 Lithium battery  
handling label Quantity allowed 5 Kg Net (batteries )  
- Passenger Aircraft 35 Kg Net (batteries) - Cargo  
Aircraft only



Class 9A Lithium Battery Labels ??? Code  
V029/LITH-1000. DG Label Tests & Compliance.  
When you purchase Class 9A Lithium Battery labels  
(dangerous goods hazard labels) you should check  
and test that they comply with BS5609 specification  
and regulation standards. At Labeline we test labels  
at our tidal salt water Estuary location.



UN 3090 and 3091: Following the same logic,  
lithium metal batteries have the numbers UN 3090  
and 3091. UN 3171: For vehicles operated only with  
lithium-ion batteries or lithium-metal batteries. UN  
3166: Vehicles operated with, among other things,  
lithium-ion batteries, or lithium-metal batteries in  
combination with a fuel cell.



DG By Air - Class 9 - Lithium Batteries. This course is suitable for BOTH Initial and Refresher Training. You will be enrolled for 30 days (extra time may be requested). On successful completion and passing an Exam a Certificate will be issued for 2 years. Purchase Now \$175.00



DG Shipping Guide #15 ??? 49 CFR LITHIUM METAL BATTERIES (Fully Regulated Class 9 Shipment per ? 173.185) Revision Date: 10/30/2023 Page 1 of 8 [Guide #15] Lithium metal batteries, Class 9 12 lb This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled/placarded, and



Limitations Max weight or quantity per package  
Packaging Labels Documentation DG Option Code  
Shipper Approved Country Approved s Batteries  
only 30 kg Gross UN 3480 Special Provision 188  
P903 LP903 The previous provisions for the Class  
9 label and Lithium Battery Label may continue to  
be used until 31 December 2017 . Dangerous  
Goods



with a Watt-hour rating in excess of 100 Wh, which must be assigned to Class 9 and are subject to all of the applicable requirements of these Instructions; The provisions for a lithium battery handling label as contained in the 2015-2016 Edition of these Instructions (Part 5;3.5.2 and Figure 5-32 of the 2015-2016 Edition) may continue to be



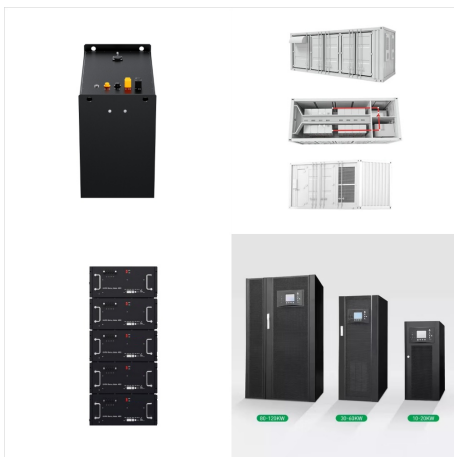
DG Shipping Guide: Damaged or Defective Lithium Ion Batteries? 173.185, Regulated as Class 9 Rev date: 9/8/2017 All customers are responsible for compliance with applicable domestic and international dangerous goods transport regulations. Note Use of the new Lithium Battery Class 9 label eliminates the requirement for the lithium battery document.



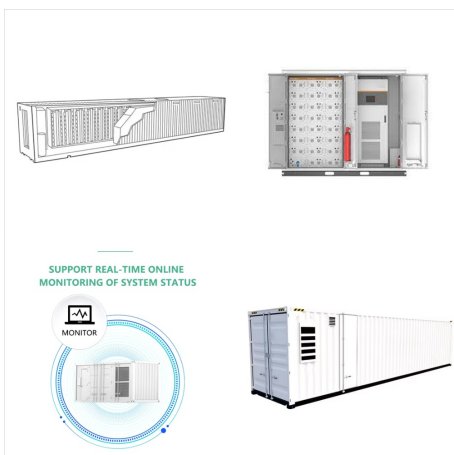
IATA Lithium Battery Guidance Document ??? 2018 APCS/Cargo Page 2 06/02/2018 Definitions Lithium Battery ??? The term "lithium battery" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. For the purposes of the DGR they are separated into: Lithium metal batteries.



Lithium cells or batteries which exceeded the quantities but not the Watt-hour ratings/lithium metal content limits in Section II Subject to most of the requirements Alternative written documentation, i.e. DGD not Non-UN specification packagings required Lithium battery handling label + Class 9 hazard label Section II



Lithium batteries are classified in Class 9 ??? Miscellaneous dangerous goods as: ??? UN 3090, Lithium metal batteries; or ??? UN 3480, Lithium ion batteries or, if inside a piece of equipment or packed separately with a piece of equipment to power that equipment as:



no., DG class, dimension, quantity and estimated arrival time to CTO / GHA / Airline's Office . Document (details refer to IATA DGR): 1. DGD . 2. Air Waybill DG counter / Lithium Battery Inspection Centre. Check if comply with IATA DGR and recommended Lithium Battery checklist by airline. Sign and chop on Lithium





Lithium Battery Mark - Remove Telephone number for additional information; If you would like to join a DG class, or simply want to find out more about our courses, please contact us by telephone or email.  
Telephone: +852 29614887 Fax: +852 30073263  
Email: [dgtraining@chemfreight.hk](mailto:dgtraining@chemfreight.hk).



Lithium batteries need special attention when being shipped. Check the most common shipments that contain lithium batteries and how to ensure your shipment is safe and compliant. All lithium batteries are Class 9, Miscellaneous Dangerous Goods.  
Lithium Ion Batteries are classified as follows:  
Class: UN Number: Proper Shipping Name:  
Comments



The complete list of IATA/ICAO hazard labels are found below, click the labels to find out more about the class of DG. Class 1 Explosives. Class 1 Explosives, Division 1.4. Class 2 Gases. Class 3 Flammable Liquids. Class 4 Flammable Solids. ???



interpretation of the 2016 Lithium battery requirements. No user should act on such information without reference to UN3090 - Lithium Metal Batteries FULLY DECLARED DG (Packing Instruction P903) Not subject to all aspects of the IMDG (Special provision 188) Label required Class 9 or Class 9 li-batt label Either label may be used until



Class 1 contains substances and articles which pose a hazard due to explosion. Items in Class 1 are further divided into divisions 1.1 - 1.6 depending on the nature of the explosion hazard and the sensitivity of the item. Lithium batteries: M5: Life-saving appliances: M6 - M8: Environmentally hazardous substances: M6: Pollutant to the



Lithium Batteries Regulations: Watt Hour Rating. Step 3 ??? What is the capacity (Watt Hour\* rating) of your battery? Dangerous Goods classified in Class 1 (except 1.4S), Division 2.1 (flammable gases), Class 3 (flammable liquids), Division 4.1 (flammable DG and mention CAO in the restricted commodity type. ADR. Return to parent slide.



Class 9 hazard label for lithium batteries UN 3480  
Lithium ion batteries & UN 3090 Lithium metal  
batteries Image credit: Dangerous Goods Advisory  
Council (DGAC) (ii) Addition of Stack Test in  
Section IB of PI965 and PI968 4 1. Revision to  
lithium battery provisions DG training and  
assessment completed and certificates issued  
before



DG Shipping Guide #2 ??? IATA LITHIUM ION  
BATTERIES (PI 965, Section IB) Revision Date:  
12/16/2021 Page 1 of 8 [Guide #2] Lithium Battery  
class 9 label, Lithium Battery Mark and the Cargo  
Aircraft Only Label. Lithium Battery Mark . Add  
"UN3480" if not already indicated and shipping site  
telephone number in



Dangerous Goods Latest Insight. Regulatory  
Update - Major Changes in the 2023-2024 Edition of  
the ICAO Technical Instructions for the Safe  
Transport of Dangerous Goods by Air (TIs) (PDF:  
202KB) Presentation Slides on the Major Changes  
in ???





Understanding the Australian transport regulations for the disposal or recycling of used lithium batteries (Non damaged and non defective). Skip to content. Home; Customers. Request A Collection; Using the BTS Container (Videos) Battery Safety ??? Reducing Their Fire Risk; 2 DG Diamonds Class 9a, minimum size of 100 x 100mm with minimum



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??? The following Lithium Battery packages need a DG Proper Shipping Name and UN Number marks: ??? Section IA (PI-965 & 968) ??? Section IB (PI-965 & 968) utilized on a Lithium Battery package: ??? Class 9 Label ??? Cargo Aircraft Only (CAO) Label ??? Lithium Battery Handling Label



If you need to ship lithium batteries safely and legally but don't know where to start, this beginners guide to UN3480, UN3481 & IATA regulations will help. Sustainability; Competitive advantage; Class 9 Packing Group II, tunnel category E  
ADR/RID-Labels 9 Proper shipping name  
Lithium-Ion batteries, UN 3480 ADR Special Provisions 188