



# Lithium battery packaging

Learn about the DOT regulations, packaging specifications, and factors to consider for shipping lithium ion batteries. ProtecPac offers expert solutions for lithium ion battery packaging design and certification.

Learn the safety regulations and precautions for shipping different types of batteries with UPS, including lithium ion, lithium metal, wet and dry batteries. Find out how to protect terminals, prevent short circuits, label packages and comply with IATA and PHMSA standards.

Learn the differences between lithium metal and lithium-ion batteries, the regulations and requirements for shipping them by air, and the packaging and marking guidelines. Find out how to avoid counterfeit or substandard lithium ...

Learn how to safely ship lithium-ion batteries by air, which are classified as UN3480 and UN3481 under the UN regulations. Find out the requirements, risks, and benefits of this growing market for electrification and transportation.

Learn how to safely and compliantly transport lithium-ion batteries internationally. Find out the UN Standard 38.3 requirements, tests, and best practices for packaging and labeling.

Lithium batteries require both inner and outer packaging, along with sufficient cushioning material. Packages must be sealed securely and be able to contain leaks in the event of electrolyte spills. Any packaging damages, like punctures or ...

Learn how to transport lithium ion batteries as cargo on passenger aircraft under the 2024 ICAO Technical Instructions and IATA DGR. Find definitions, classification, prohibitions, restrictions and FAQs for UN3480.

Learn about the hazards and risks of lithium cells and batteries, and how to comply with the DOT Hazardous Materials Regulations (HMR; 49 C.F.R., Parts 171-180). Find resources for recycling batteries and contact information for PHMSA.

[2024-Interactive Guide to Shipping Lithium Batteries.pdf \(987.68 KB\)](#) This document provides awareness of the International Civil Aviation Organization's (ICAO) 2023-2024 Edition of the Technical Instructions (Doc 9284) requirements for lithium batteries.

Learn how to package and label wet, dry, and lithium batteries for safe transport with FedEx Express. Find out the requirements, restrictions, and regulations for shipping different types of batteries as dangerous goods.

Learn about the international regulations and requirements for shipping lithium batteries by air, sea or land. Find out the difference between UN 3480 and UN 3481, and how to package and label them correctly.



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4 days ago; Three lithium batteries are being removed from a shipping container after a semi-trailer rolled over on the Hamilton Highway. The truck rolled over on Saturday morning at Murgheboluc, near ...

Learn about the rules and regulations for shipping lithium batteries, damaged, defective or recalled batteries, and battery collection, recycling, and end of life shipments. Find out how to get pre-approval, training, and packaging requirements from UPS.

Learn how to safely package and transport lithium cells and batteries by all modes of transportation according to the latest regulatory requirements. This guide provides scenario-based situations and examples for different lithium cell/battery types, configurations, and sizes.

Learn how to ship lithium batteries safely and comply with DOT/ICAO/IATA/IMDG/USPS requirements. Find out the packaging, testing, marking and labeling rules for different types and sizes of lithium batteries.

Learn how to ship lithium batteries via domestic US ground, international air and vessel in 2022. Find out the size, type and test requirements for lithium ion and metal cells and batteries, including UN 3091.

Learn the regulations, packaging tips and documentation required for shipping batteries across borders with DHL Express. Find out how to identify and pack different types of batteries, such as lithium, alkaline, nickel-metal hydride and wet cell batteries.

Learn the requirements and best practices for shipping lithium ion batteries safely and compliantly. Find out what documentation, packaging, and labels you need for different modes of transportation and carriers.

Learn how to transport lithium ion batteries by air according to the ICAO Technical Instructions and the IATA Dangerous Goods Regulations. Find out the definitions, classification, prohibitions, restrictions and FAQs for UN3480 lithium ion batteries.

Learn how to safely package lithium cells and batteries for transport by all modes according to the latest DOT regulations. This document provides scenario-based shipping guides and links to regulatory requirements for different lithium cell/battery types and configurations.

Learn how to comply with the ICAO Technical Instructions for lithium batteries, including UN3091 for lithium metal batteries packed with equipment. Find out the capacity, lithium content, net mass, and packaging requirements for different types of lithium batteries.

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