

Lithium battery pack land transportation requirements



Overview

ADR 2025 introduces several significant changes for the transport of lithium batteries by road. Department of Transportation's (DOT) Hazardous Materials Regulations (HMR; 49 C.F.R. 173.101-173.105) require lithium cells and batteries to be tested for safety regardless of whether the cells used to construct the battery. Recent updates from the U.S. Department of Transportation (DOT) have updated these regulations. However, they're surprisingly dangerous to transport. As a shipper, you'll be required to comply with DOT's (dangerous goods) regulations and are subject to specific packaging, marking, labeling, and shipping paper requirements. For a copy of the current UN lithium battery regulations, visit [UN Model Regulations for the Transport of Dangerous Goods](#). Effective control of lithium battery transportation is essential to ensure safety and compliance with global shipping regulations.

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[A Complete Guide to Lithium Battery Transportation Regulations in 2025](#)

Understand 2025 lithium battery transportation rules, including packaging, labeling, and compliance to ensure safe and legal shipping across all modes.

Transporting Lithium Batteries: DOT Rules and

The regulations for transporting lithium batteries can be daunting. Rise to the challenge with our guide that will tell you what you need to do.



eCFR :: 49 CFR 173.185 -

(1) Each package offered for transportation containing lithium cells or batteries, including lithium cells or batteries packed with, or contained in, equipment, must meet all applicable requirements of subpart

[Updated Lithium Battery Transport Regulations and Overpack Label](#)

This guide, developed by Himax Battery, summarizes the latest lithium battery shipping rules, providing engineers, compliance officers, and logistics partners with the most current and



Check the Box for Lithium Batteries

If you need to ship damaged batteries, they are not considered small batteries. Instead, there are



much stricter requirements for packaging, hazard communication, and modes of transportation. Use

TRANSPORTING HIGH ENERGY BATTERIES FOR RECYCLING

Industry information has been compiled to assist in the end-of-life recycling and transporting of "high energy" lithium ion batteries (i.e., batteries rated at greater than 300 Wh per battery).



Transporting Lithium Batteries , PHMSA

Lithium batteries are regulated as a hazardous material under the U.S. Department of Transportation's (DOT) Hazardous Materials Regulations (HMR; 49 C.F.R., Parts 171-180).

Batteries in Transport - Applicable U.S. Hazardous Materials

IV. Lithium ion and Lithium Metal Cells and Batteries Is (dangerous goods) regulations and are subject to specific packaging, marking, labeling, and shipping paper requirements.



[RE: Additional Regulatory Oversight and Guidance Necessary for](#)

Several recent incidents involving lithium battery shipments have further raised the profile of this issue. While requirements are in place to provide for the safe shipment of lithium batteries, it is true that the

ADR rules for lithium battery transport

explanation

Discover the ADR regulations for the safe transport of lithium batteries, including requirements for classification, packaging and documentation for businesses.



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